



FlowCon
FIVC

CATALOGUE 2019

FIVC manual- and balancing valves
– Classic, reliable valves designed for a modern environment –

List of Content

Introduction

Greeting.....
About us.....
ISO Certificate.....

Gate Valve

Threaded
 Non Rising Stem.....
 Rising Stem.....
Flanged
 Non Rising Stem.....
 Rising Stem.....

Ball Valve

Threaded.....
Flanged.....

Strainer

Threaded.....
Flanged.....

Check Valve

Threaded.....
Flanged.....

Globe Valve

Threaded.....
Flanged.....

Static Balancing Valve

Threaded
 Fixed Orifice.....
Flanged
 Fixed Orifice.....
 Variable Orifice.....

List of Content

Metering Station.....

Pressure Reducing Valve.....

Triple Duty Valve

Angle type.....

Straight type.....

Suction Diffuser.....

Butterfly Valve

Wafer.....

Lugged.....

Motorized.....

U-Flanged.....

Flanged.....

Air Vents

Single action.....

Double action.....

Triple action.....

Bottom Valve.....

Flexible Hose.....

Expansion Joint

Double Sphere.....

Single Sphere.....

Pressure Gauge.....

ONLINE CATALOGUE ²⁰¹⁹

Introduction

Greeting

Dear Sirs,

First, we want to thank You for your interest in FlowCon IVC products and hope You will find this online catalogue relevant.

This catalogue presents our *soft copy*, full range portfolio.

However, please do not hesitate to contact FlowCon IVC or our local distributor for any other request not shown in this online catalogue.

FlowCon IVC strives to innovate through constant product development and just-in-time service to ensure increased customer satisfaction. Therefore, please await the launch of a new and large hard copy catalogue edition encompassing the complete product range of FlowCon IVC.

Kindly contact our local agent or distributor for the hard copy catalogue 2019 – or visit our website at www.flowconivc.com – for any requests.

About us

FlowCon IVC is a subsidiary of one of the world's leading suppliers of flow control valves - *Griswold Controls LLC. and FlowCon International ApS.*

FlowCon IVC is an expert provider of the group's complementary products, static and conventional valves.

With the group's many years of experience, the *FlowCon/Griswold Controls LLC. group* does together provide complete solutions for customers within the industry.

Thank You for your time.

We hope You will enjoy working with a FlowCon IVC product in a nearby future.

Contact

FlowCon International Valve Company A/S
Trafikcenter Allé 17
DK-4200 Slagelse
mt@flowconivc.com

BUREAU VERITAS
Certification



FlowCon IVC

Trafikcenter Allé 17, 4200 Slagelse, Denmark

Bureau Veritas Certification Denmark A/S certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below.

Standard

ISO 9001:2015

Scope of certification

Development, sourcing, production/assembling, marketing, and sales of General Valves and Static Balancing Valves.

Original cycle start date:	09 January 2017
Expiry date of previous cycle:	NA
Certification/Recertification Audit date:	NA
Certification/Recertification cycle start date:	16 September 2018

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **15 September 2021**

Certificate No.: DK009874-2 Version: 1 Revision date: 06 August 2018

Certification Office: **Bureau Veritas Certification Denmark A/S**
Oldenborggade 25-31, 7000 Fredericia, Denmark

Further clarifications regarding the scope of this certificate and the applicability of the Management System requirements may be obtained by consulting the organization. To check this certificate validity, please call **(+45) 77 311 000**.

 **DANAK**
SYSTEM Reg.nr. 5005





FIVC Gate Valve

Non Rising Stem
Rising Stem

FIVC Gate Valve

Brass – PN 16 – Screwed Bonnet – Non Rising Stem – ISO 228



FGA series

Technical data

Main features and materials

- Body: Brass CW617N
- Bonnet: Brass CW617N
- Wedge: Brass CW617N
- Stem: Brass CW617N
- Seat: Integral seat
- Handwheel: Aluminium

Field of applications

- Temperature range: 5 to 110 °C
- Max. working pressure: 16 bar (at 23 °C)
10 bar (at 95 °C)

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

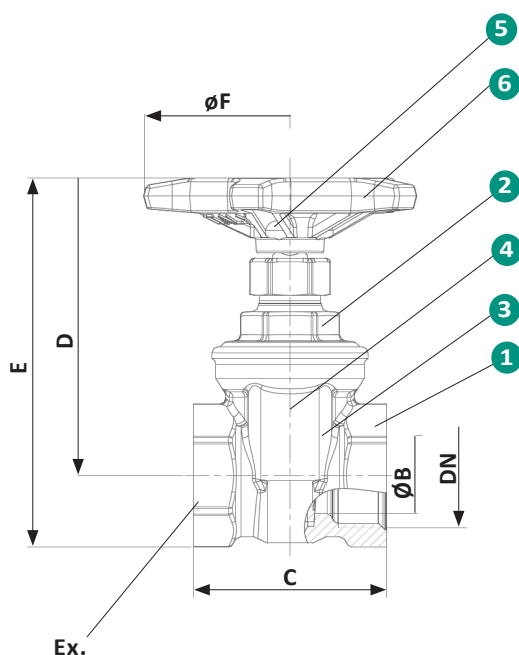
Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for Cold Water, Hot Water and Steam at low pressure.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	ØB*	C*	D*	Ex*	E*	ØF*	Kv (m ³ /h)	Kg
FGA015B16NS01	15	14	43	64	26	79	59	12	0.205
FGA020B16NS01	20	19	48	76	33	94	72	36	0.317
FGA025B16NS01	25	25	54	87	40	109	72	61	0.427
FGA032B16NS01	32	32	62	96	49	130	84	90	0.72
FGA040B16NS01	40	38	64	116	55	147	95	180	0.891
FGA050B16NS01	50	51	76	140	69	178	108	290	1.473

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass CW617N UNI EN 12165
2	Bonnet	Brass CW617N UNI EN 12165
3	Wedge	Brass CW617N UNI EN 12165
4	Stem	Brass CW617N UNI EN 12165
5	Nut	Zinc plated Steel
6	Handwheel	Aluminium - Coated with plastic

FIVC Gate Valve

Bronze – PN 16 – Screwed Bonnet – Non Rising Stem – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze SN 5
- Bonnet: Brass CW617N
- Wedge: Brass DELTA CS
- Stem: Brass CW614N
- Seat: Integral seat
- Handwheel: Steel

Field of applications

- Temperature range: 0 to 80 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

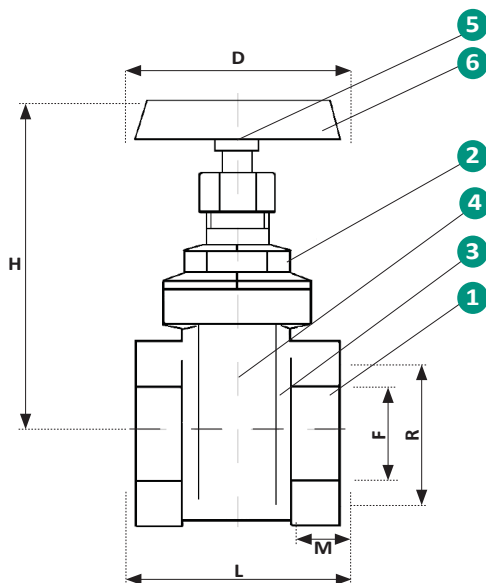
Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	W**	L*	H*	D*	F*	M*	Kg
FGA015O16NS01	15	1.7	38	68	45	15	9	-
FGA020O16NS01	20	1.8	45	78	50	19	10	-
FGA025O16NS01	25	2.0	48	92	55	24	11	-
FGA032O16NS01	32	2.2	51	108	60	32	11	-
FGA040O16NS01	40	2.3	58	125	70	37	13	-
FGA050O16NS01	50	2.5	62	145	80	47	13	-

*Dimensions are in millimeters • **W: Min. wall thickness

Product Specification

N°	Name	Material
1	Body	Bronze SN 5 UNI EN 1982 DIN 50930/6
2	Bonnet	Brass CW617N UNI EN 12165
3	Wedge	Brass DELTA CS CB 7535 UNI EN 1982
4	Stem	Brass CW614N UNI EN 12164
5	Nut	Brass CW614N UNI EN 12164
6	Handwheel	Steel - Coated with plastic

FIVC Gate Valve

Bronze – PN 20 – Screwed Bonnet – Non Rising Stem – WRAS – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Wedge: Bronze CC491K
- Stem: DZR Brass CW602N
- Seat: Integral seat
- Standard: BS EN 12288
- USP: WRAS approval

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 20 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve complies with BS EN 12288 and can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

Other Standards

ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

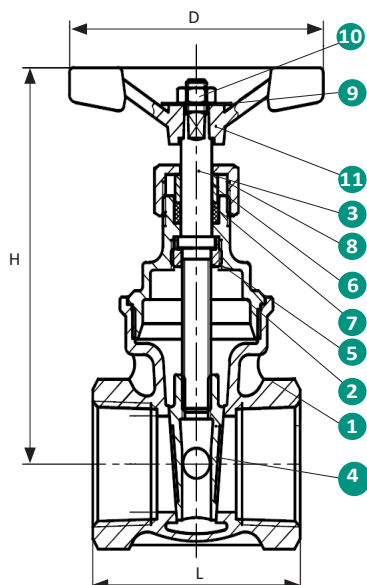
Declaration

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Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).



Dimensions



Product Information

Product code	Size (DN)	L*	D*	H*	d*	Kg
FGA015O20NS21	15	49.5	52	74	12.7	0.27
FGA020O20NS21	20	53.5	52	85	19.1	0.40
FGA025O20NS21	25	62	70	106	25.4	0.59
FGA032O20NS21	32	70	70	113	31.8	0.86
FGA040O20NS21	40	77	92	132	38.2	1.27
FGA050O20NS21	50	87	92	155	50.9	1.90

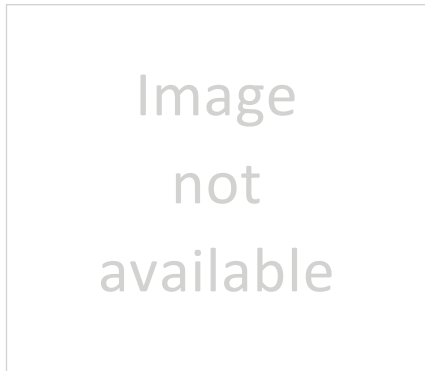
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Bonnet	Bronze CC491K BS EN 1982
3	Stem	DZR Brass CW602N BS EN 12164
4	Disc	Bronze CC491K BS EN 1982
5	Stem bush	DZR Brass CW602N BS EN 12164
6	Ring	Brass CW614N BS EN 12164
7	Packing	PTFE
8	Packing nut	Brass CW614N BS EN 12164
9	ID plate	Aluminium
10	Handwheel nut	Brass CW614N BS EN 12164
11	Handwheel	Aluminium

FIVC Gate Valve

Bronze – PN 20 – Lockshield – Screwed Bonnet – Non Rising Stem – ISO 228



FGAL series

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve complies with BS 5154 and can be used for Water, Oil, and Gas respectively.

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Wedge: Bronze CC491K
- Stem: DZR Brass CW602N
- Lockshield: Brass CW617N

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 20 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Alternative Product Versions

Other Standards

ANSI • ASME B1.20.1 • NPT

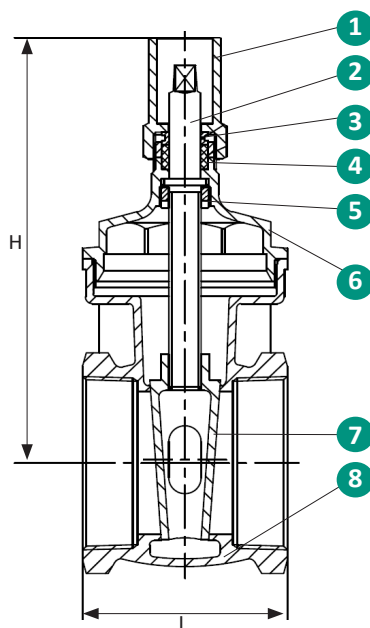
ISO 7/1 Rc/Rp threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	H*	L*	Kg
FGAL015O20NS21	15	78	43	0.25
FGAL020O20NS21	20	86	49	0.35
FGAL025O20NS21	25	105	54	0.52
FGAL032O20NS21	32	116	62	0.75
FGAL040O20NS21	40	133	65	1.11
FGAL050O20NS21	50	155	75	1.61

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Bonnet	Bronze CC491K BS EN 1982
3	Wedge	Bronze CC491K BS EN 1982
4	Stem	DZR Brass CW602N BS EN 12164
5	Lockshield	Brass CW617N BS EN 12164
6	Clamping ring	Brass CW617N BS EN 12164
7	Packing	PTFE
8	Stem bush	DZR CW602N BS EN 12164

FIVC Gate Valve

Bronze – PN 20 – Screwed Bonnet – Non Rising Stem – WRAS – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Disc: Bronze CC491K
- Stem: DZR Brass CW602N
- Seat: Integral seat
- Standard: BS EN 5154
- USP: WRAS approval

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 20 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve complies with BS EN 5154 and can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

Other Standards

ANSI • ASME B1.20.1 • NPT
ISO 7/1 Rc/Rp threads

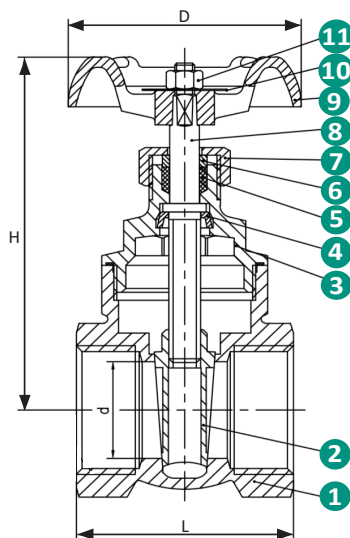
Declaration

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Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).



Dimensions



Product Information

Product code	Size (DN)	L*	D*	H*	d*	Kg
FGA015O20NS22	15	43	52	78	13	0.255
FGA020O20NS22	20	49	60	88	19	0.355
FGA025O20NS22	25	54	65	103	25	0.524
FGA032O20NS22	32	62	70	116	32	0.77
FGA040O20NS22	40	65	78	133	38	1.07
FGA050O20NS22	50	75	92	156	50	1.62

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Disc	Bronze CC491K BS EN 1982
3	Bonnet	Bronze CC491K BS EN 1982
4	Stem bush	DZR Brass CW602N BS EN 12164
5	Packing	PTFE
6	Ring	Brass CW614N BS EN 12164
7	Packing nut	Brass CW614N BS EN 12164
8	Stem	DZR Brass CW602N BS EN 12164
9	Handwheel	Aluminium - black coated RAL 9005
10	ID plate	Aluminium
11	Handwheel nut	Brass CW614N BS EN 12164

FIVC Gate Valve

Bronze – PN 20 – Screwed Bonnet – Non Rising Stem – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Brass CW617N
- Wedge: Brass CW617N
- Stem: Brass CW614N
- Seat: Integral seat

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: 20 bar (9 bar at 180°C)

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve has a Working Steam Pressure of 125 Psi and can be used for Water, Oil, and Gas of 250 Psi respectively.

Alternative Product Versions

PN 20, Wedge in Bronze

WOG: 250 Psi • WSP: 125 Psi

Item No: FGA015O20NS04... FGA100O20NS04

PN 20, Body in Bronze, other parts in DZR Brass

WOG: 250 Psi • WSP: 125 Psi

Item No: FGA015O20NS03... FGA100O20NS03

Other Standards

ANSI • ASME B1.20.1 • NPT

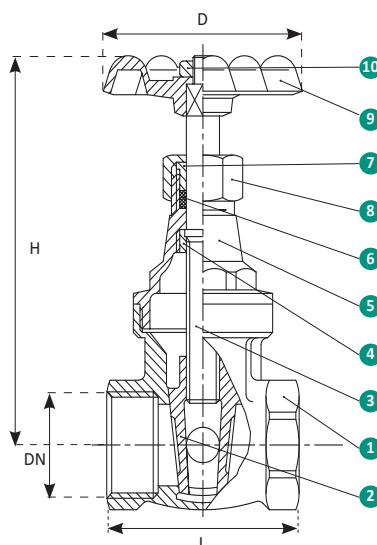
ISO 7/1 Rc/Rp threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	D*	Kg
FGA015O20NS01	15	50	70	50	0.28
FGA020O20NS01	20	51	86	55	0.38
FGA025O20NS01	25	57	98	60	0.54
FGA032O20NS01	32	68	120	70	0.90
FGA040O20NS01	40	71	137	80	1.21
FGA050O20NS01	50	82	160	95	1.90

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K UNI EN 1982
2	Wedge	Brass CW617N UNI EN 12165
3	Stem	Brass CW614N UNI EN 12164
4	Stem ring	Brass CW614N UNI EN 12164
5	Bonnet	Brass CW617N UNI EN 12165
6	Packing	DN 15-25: PTFE DN 32-50: AF/15/MA patented
7	Packing gland	Brass CW614N UNI EN12164
8	Packing nut	Brass CW614N UNI EN 12164
9	Handwheel	Aluminium GD12FE UNI EN 1706
10	Wheel nut	Steel 6S UNI 5589

FIVC Gate Valve

Bronze – PN 20 – Screwed Bonnet – Rising Stem – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Wedge: Bronze CC491K
- Stem: DZR Brass CW602N
- Seat: Integral seat
- Dimensions: BS 5154

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 20 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve complies with BS 5154 and can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

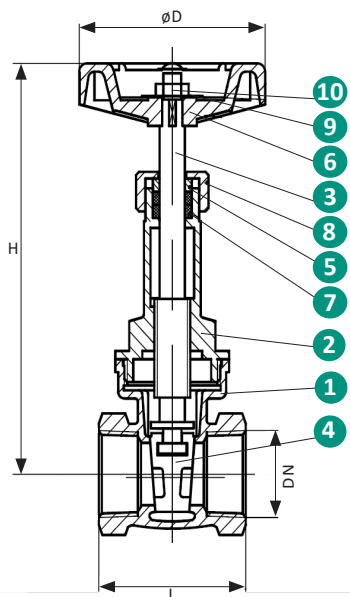
Other Standards

ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	D*	Kg
FGA015O20RS21	15	43	112	55	0.37
FGA020O20RS21	20	49	125	63	0.56
FGA025O20RS21	25	54	143	70	0.84
FGA032O20RS21	32	62	170	70	1.07
FGA040O20RS21	40	65	198	80	1.43
FGA050O20RS21	50	75	233	90	1.97

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Bonnet	Bronze CC491K BS EN 1982
3	Stem	DZR Brass CW602N BS EN 12164
4	Disc	Bronze CC491K BS EN 1982
5	Stem bush	DZR Brass CW602N BS EN 12164
6	Packing	PTFE
7	Packing nut	Brass CW614N BS EN 12164
8	ID Plate	Aluminium
9	Handwheel nut	Brass CW614N BS EN 12164
10	Handwheel	Aluminium

FIVC Gate valve

Bronze – PN 20 – Union Bonnet – Rising Stem – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Brass CW617N
- Wedge: Brass CW617N
- Stem: Brass CW614N
- Seat: Integral seat

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: 20 bar (9 bar at 180 °C)

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve has a Working Steam Pressure of 125 Psi can be used for Water, Oil, and Gas of 250 Psi respectively.

Alternative Product Versions

PN 20, All in Bronze

WOG: 250 Psi • WSP: 125 Psi • Temp. range: -10 to 180 °C (9.0 bar at 260 °C)

Item No: FGA015020RU06... FGA100020RU06

Other Standards

ANSI • ASME B1.20.1 • NPT

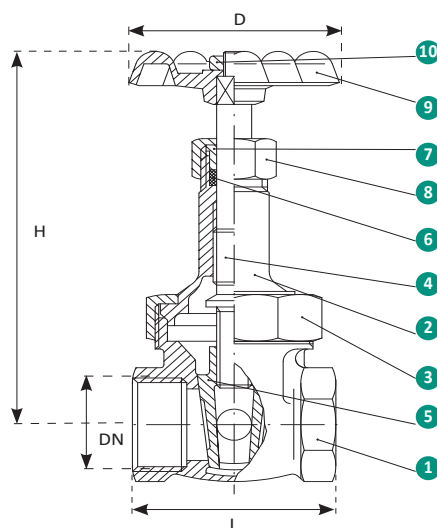
ISO 7/1 Rc/Rp threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	D*	Kg
FGA015020RU01	15	50	102	50	0.33
FGA020020RU01	20	51	127	55	0.50
FGA025020RU01	25	57	140	60	0.68
FGA032020RU01	32	68	167	70	1.10
FGA040020RU01	40	71	187	80	1.45
FGA050020RU01	50	82	231	95	2.35

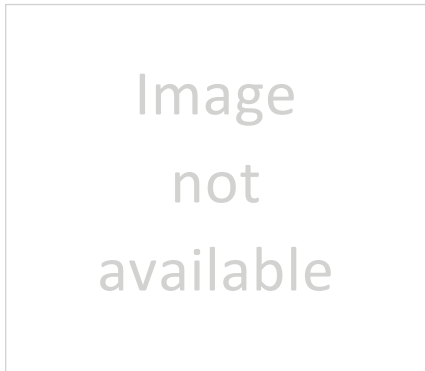
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K UNI EN 1982
2	Bonnet	Brass CW617N UNI EN 12165
3	Stem	Brass CW617N UNI EN 12165
4	Packing	Brass CW614N UNI EN 12164
5	Packing gland	Brass CW617N UNI EN 12165
6	Handwheel	AF/15/MA Patented
7	Wheel nut	Brass CW614N UNI EN 12164
8	Packing nut	Brass CW617N UNI EN 12165
9	Handwheel	Aluminium GD12FE UNI EN 1706
10	Wheel nut	Steel 6S UNI 5589

FIVC Gate Valve

Bronze – PN 25 – Screwed Bonnet – Non Rising Stem – ISO 228



Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Wedge: Bronze CC491K
- Stem: DZR Brass CW602N
- Handwheel: Aluminium

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

FGA series

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation.

The valve complies with BS 5154 and can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

Other Standards

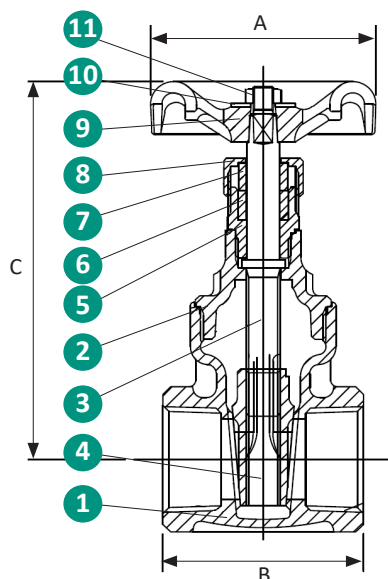
ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	C*	Kg
FGA015O25NS21	15	52	51	82	0.34
FGA020O25NS21	20	65	55	95	0.58
FGA025O25NS21	25	70	63	118	0.88
FGA032O25NS21	32	79	71	144	1.36
FGA040O25NS21	40	92	73	166	1.75
FGA050O25NS21	50	103	83	190	2.81

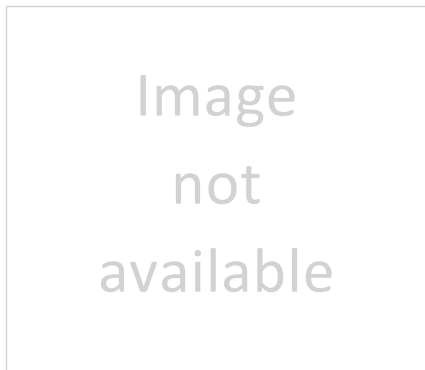
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Bonnet	Bronze CC491K BS EN 1982
3	Stem	DZR Brass CW602N BS EN 12164
4	Wedge	Bronze CC491K BS EN 1982
5	Stuffing box	DZR Brass CW602N BS EN 12164
6	Packing ring	Asbestos Free - WRAS listed and approved
7	Gland	Brass CW614N BS EN 12164
8	Packing nut	Brass CW614N BS EN 12164
9	Handwheel	Aluminium
10	ID plate	Aluminium
11	Handwheel nut	Brass CW614N BS EN 12164

FIVC Gate Valve

Bronze – PN 32 – Screwed Bonnet – Non Rising Stem – ISO 228



FGA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Wedge: Bronze CC491K
- Stem: Bronze CC491K
- Handwheel: Aluminium
- Seat: Integral Seat

Field of applications

- Max. temperature: 170 °C
 - Max. working pressure: 32 bar
- Petrochemical industry
 - Irrigation systems
 - Mining and infrastructure industries
 - Shipyard industry
 - Compressed air
 - Textile industry
 - Mechanical industry
 - Steam applications
 - Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation.

The valve complies with BS 5154 and can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

Other Standards

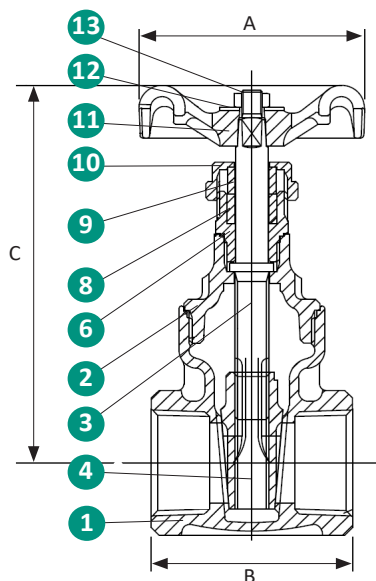
ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	C*	Kg
FGA015032NS21	15	53	51	82	0.47
FGA020032NS21	20	71	55	95	0.60
FGA025032NS21	25	71	63	118	0.92
FGA032032NS21	32	78	71	144	1.41
FGA040032NS21	40	90	73	166	1.92
FGA050032NS21	50	108	83	190	2.72

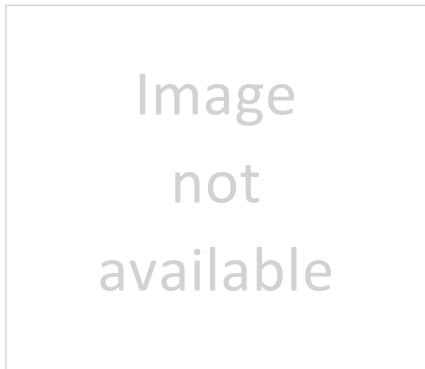
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Bonnet	Bronze CC491K BS EN 1982
3	Stem	Bronze CC491K BS EN 1982
4	Wedge	Bronze CC491K BS EN 1982
6	Stuffing box	DZR Brass CW602N BS EN 12164
8	Packing ring	Asbestos Free - WRAS listed and approved
9	Gland	Brass CW614N BS EN 12164
10	Packing nut	Brass CW614N BS EN 12164
11	Handwheel	Aluminium
12	ID plate	Aluminium
13	Handwheel nut	Stainless Steel + Brass CW614N BS EN 12164

FIVC Gate Valve

Bronze – PN 32 – Screwed Bonnet – Rising Stem – ISO 228



FGA series

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation.

The valve complies with BS 5154 and can be used for Water, Oil, and Gas respectively.

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Wedge: Bronze CC491K
- Stem: DZR Brass CW602N
- Handwheel: Aluminium

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 32 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Alternative Product Versions

Other standards

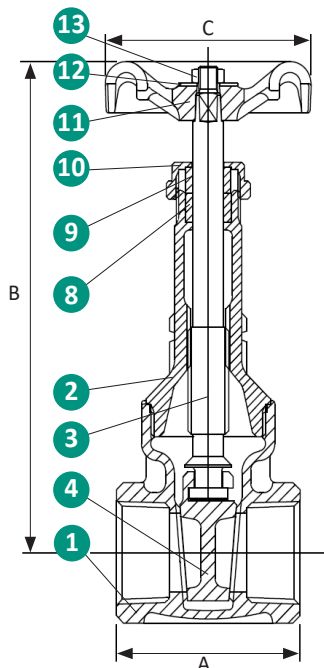
ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B* open	C*	Kg
FGA015032RS21	15	51	129	53	0.40
FGA020032RS21	20	55	159	71	0.643
FGA025032RS21	25	63	189	71	0.998
FGA032032RS21	32	71	219	78	1.519
FGA040032RS21	40	73	246	90	2.064
FGA050032RS21	50	83	301	108	3.191

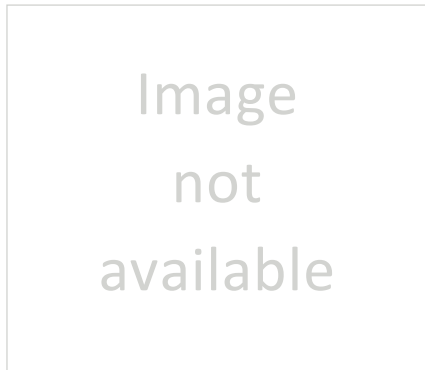
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Bonnet	Bronze CC491K BS EN 1982
3	Stem	Bronze CC491K BS EN 1982
4	Wedge	Bronze CC491K BS EN 1982
8	Packing ring	Asbestos Free - WRAS listed and approved
9	Gland	Brass CW614N BS EN 12164
10	Packing nut	Brass CW614N BS EN 12164
11	Handwheel	Aluminium
12	ID plate	Aluminium
13	Handwheel nut	Stainless Steel + Brass CW614N BS EN 12164 - Black color RAL9005

FIVC Gate Valve

Ductile Iron – PN 16 – Non Rising Stem – EN 1092-2



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to DIN 3202 F4
- Closing tightness: DIN 3230 standards

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

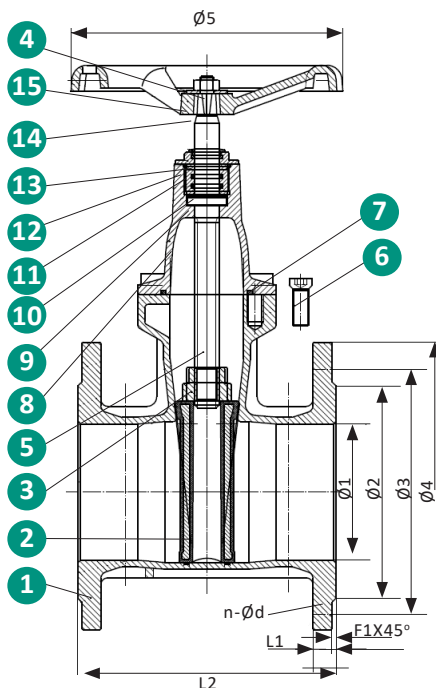
FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	L2*	L1*	Ø4*	Ø3*	Ø2*	Ø5*	F1*	n-Ød	Kg
FGA065N16NB216	65	170	19	185	145	118	200	3	4-Ø19	12
FGA080N16NB216	80	180	19	200	160	132	200	3	8-Ø19	15
FGA100N16NB216	100	190	19	220	180	156	250	3	8-Ø19	19
FGA125N16NB216	125	200	19	250	210	184	250	3	8-Ø19	25
FGA150N16NB216	150	210	19	285	240	211	300	3	8-Ø23	30
FGA200N16NB216	200	230	20	340	295	266	400	3	12-Ø23	49
FGA250N16NB216	250	250	22	405	355	319	400	3	12-Ø28	75
FGA300N16NB216	300	270	24.5	460	410	370	400	4	12-Ø28	107
FGA350N16NB216	350	290	26.5	520	470	429	400	4	16-Ø28	155
FGA400N16NB216	400	310	28	580	525	480	480	4	16-Ø31	200
FGA500N16NB216	500	350	31.5	715	650	609	560	4	20-Ø34	330
FGA600N16NB216	600	390	36	840	770	720	560	5	20-Ø37	530

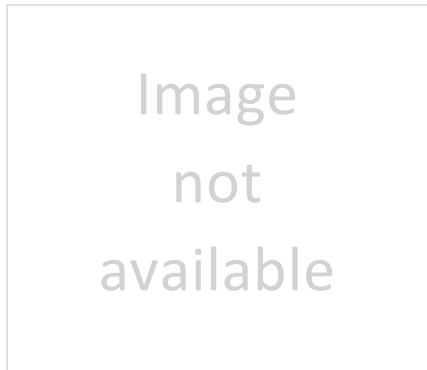
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GGG 40
2	Wedge	Ductile Iron GGG 40 + EPDM
3	Stem nut	Brass
4	Nut	Stainless Steel SS 304
5	Stem	Stainless Steel SS 420
6	Bolt	Stainless Steel SS 304
7	Gasket	EPDM
8	Bonnet	Ductile Iron GGG 40
9	Stem gasket	Brass
10	O-Ring	EPDM
11	O-Ring	EPDM
12	Packing gland	Ductile Iron GGG 40
13	Dusthand	EPDM
14	Handwheel	Ductile Iron GGG 40
15	Gasket	Stainless Steel SS 304

FIVC Gate Valve

Ductile Iron – PN 16 – Non Rising Stem – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: EPDM (*NBR by request*)
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- USP: Compact settlement
Environment-friendly
- Dimensions: BS 5163

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

FGA series

Description

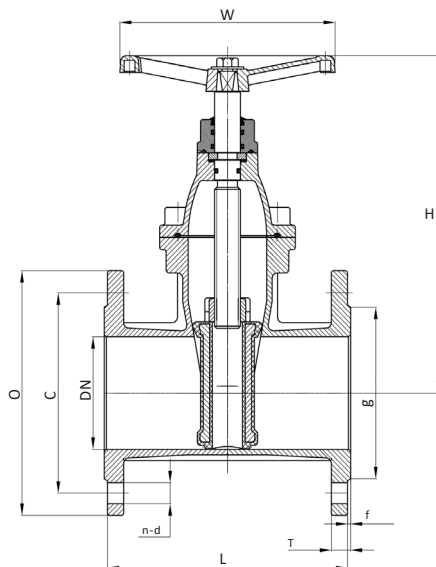
FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes. Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation.

The valve can be used for Water, Oil, and Gas.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

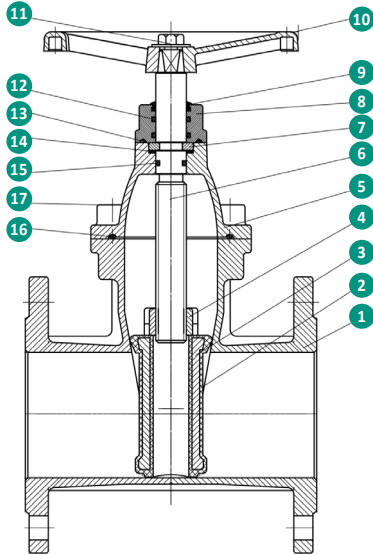
Product code	Size (DN)	L*	H*	W*	O*	C*	g*	f*	T* (DI)	n-d*	T* (CI)	Kg
FGA065N16NB230	65	190	23	200	185	145	118	3	19	4-19	19	-
FGA080N16NB230	80	230	274	200	200	160	132	3	19	8-19	22	-
FGA100N16NB230	100	229	300	200	220	180	156	3	19	8-19	23	-
FGA125N16NB230	125	254	364	250	250	210	184	3	19	8-19	24	-
FGA150N16NB230	150	267	404	250	285	240	211	3	19	8-23	24	-
FGA200N16NB230	200	292	497	320	340	295	265	3	20	12-23	20	-
FGA250N16NB230	250	330	590	370	400	355	319	3	22	12-28	22	-
FGA300N16NB230	300	356	667	370	455	410	370	4	24.5	12-28	24.5	-
FGA350N16NB230	350	381	882	450	520	470	429	4	26.5	16-28	26.5	-
FGA400N16NB230	400	406	956	450	580	525	480	4	28	16-31	28	-
FGA450N16NB230	450	432	1027	640	640	585	548	4	30	20-31	30	-
FGA500N16NB230	500	457	1106	640	715	650	609	4	31.5	20-34	31.5	-
FGA600N16NB230	600	508	1258	640	840	770	720	5	36	20-37	36	-

*Dimensions are in millimeters • T: Thickness of the flange, DI: Ductile Iron and CI: Cast Iron

FIVC Gate Valve

Ductile Iron – PN 16 – Non Rising Stem – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron
2	Wedge	EPDM
3	Skeleton	Ductile Iron
4	Stem nut	Copper HMn58-2
5	Bonnet	Ductile Iron
6	Stem	Stainless Steel 2Cr13
7	Adjusted washer	Copper HMn58-2
8	Gland	Ductile Iron
9	Dust cover	EPDM
10	Handwheel	Ductile Iron
11	Bolt	Stainless Steel 1Cr13
12	O-Ring	EPDM
13	Shaft ring	EPDM
14	Four fluorine mat	F4
15	Seal ring	EPDM
16	Washer	EPDM
17	Bolt	A3

FIVC Gate Valve

Ductile Iron – PN 16 – Non Rising Stem – WRAS – EN 1092-2



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Coating: Epoxy powder (thickness 0.2-0.3 mm)
- USP: WRAS approval
- Standard: BS 5163
- Dimensions: EN 558-1-1995

Field of applications

- Temperature range: -10 to 85°C
 - Max. working pressure: 16 bar
- Petrochemical industry
 - Irrigation systems
 - Mining and infrastructure industries
 - Shipyard industry
 - Compressed air
 - Textile industry
 - Mechanical industry
 - Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for Water.

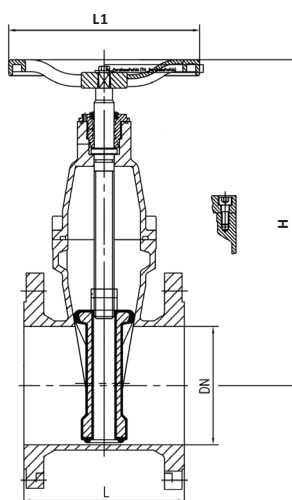
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

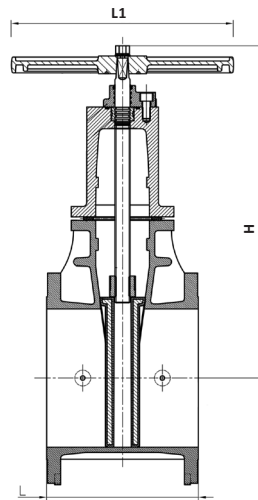


Dimensions

DN 65-300



DN 350-600



Product Information

Product code	Size (DN)	L*	L1*	H*	Kg
FGA065N16NB231	65	190	160	296	12.5
FGA080N16NB231	80	203	200	349	16.3
FGA100N16NB231	100	229	200	396	20.4
FGA125N16NB231	125	254	250	477	27.55
FGA150N16NB231	150	267	250	548	36.7
FGA200N16NB231	200	292	280	694	60.5
FGA250N16NB231	250	330	370	840	-
FGA300N16NB231	300	356	370	960	-
FGA350N16NB231	350	381	508	842	-
FGA400N16NB231	400	406	558	931	-
FGA450N16NB231	450	432	610	1058	-
FGA500N16NB231	500	457	610	1146	-
FGA600N16NB231	600	508	762	1298	-

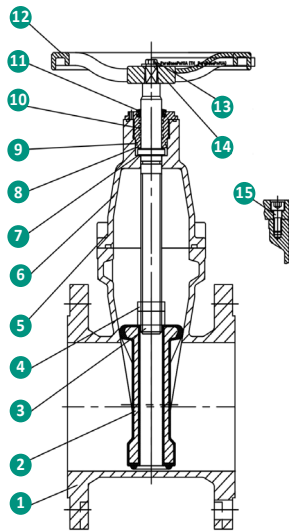
*Dimensions are in millimeters

FIVC Gate Valve

Ductile Iron – PN 16 – Non Rising Stem – WRAS – EN 1092-2

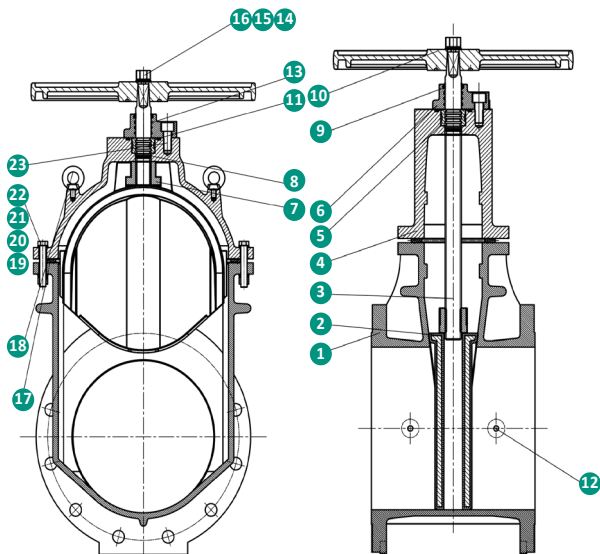
Product Specification

DN 65-300



N°	Name	Material
1	Body	Ductile Iron GJS-450-10
2	Wedge	Ductile Iron GJS-450-10 + EPDM
3	Stem	Stainless Steel 2Cr13
4	Stem nut	Bronze C83600
5	Seal ring	EPDM
6	Bonnet	Ductile Iron GJS-450-10
7	Adjusted washer	Bronze C83600
8	Gland	Ductile Iron GJS-450-10
9	O-Ring	EPDM
10	O-Ring	EPDM
11	Dust cover	EPDM
12	Handwheel	Ductile Iron GJS-450-10
13	Bolt	Stainless Steel SS 304
14	Washer	Stainless Steel SS 304
15	Screw	Gr. 8.8

DN 350-600



N°	Name	Material
1	Body	Ductile Iron GJS-500-7
2	Seat rubber coating	Ductile Iron GJS-500-7 + EPDM
3	Shaft	Stainless Steel BS 970 420S37
4	Cover	Ductile Iron GJS-500-7
5	Split ring	BS 1400 LG2
6	Seal seat	Stainless Steel BS 970 420S37
7	Plate nut	BS 1400 LG2
8	O-Ring	EPDM
9	Dust cover	EPDM
10	Handwheel	Ductile Iron GJS-500-7
11	O-Ring	EPDM
12	Square pipe plug	Stainless Steel BS 970 304S15
13	O-Ring	EPDM
14	Washer	Stainless Steel BS 970 304S15
15	Spring washer	Stainless Steel BS 970 304S15
16	C Hex cylinder head screw	Stainless Steel BS 970 304S15 Cr. 8.8
17	Mouth gasket	EPDM
18	Lifting bolt	Galvanized Steel BS 970 708M40
19	C Hex cylinder head screw	Stainless Steel BS 970 304S15 Cr. 8.8
20	Spring washer	Stainless Steel BS 970 304S15
21	Nut	Stainless Steel BS 970 304S15
22	Washer	Stainless Steel BS 970 304S15
23	Hex cylinder head screw	Stainless Steel BS 970 304S15 Cr. 8.8

FIVC Gate Valve

Ductile Iron – PN 16 – Non Rising Stem – EN 1092-2



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: EPDM
- Stem: Stainless Steel
- Coating: Epoxy RAL 5002
- Handwheel: Ductile Iron
- USP: High tightness
Leakproofness class A acc. to EN 12266-1
Prepared for actuator mounting
Hygienic certificate PZH
- Dimensions: Face-to-Face acc. to DIN 3202 (series F4)

Field of applications

- Max. temperature: 70 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation.

The valve can be used for Potable Water, Wastewater, and Neutral Liquids respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Product Information

Product code	Size (DN)	H *	L *	OD*	PCD*	D2*	b*	nxd*	W*	C*	□A*	□B*	Ød*	I1*	I2*	Kg
FGA065N16NB60	65	250	170	185	145	118	19	4x19	160	5.0	12.8	13.8	17	20	28	11.8
FGA080N16NB60	80	312	180	200	160	132	19	8x19	200	5.0	14.5	15.6	18	22	27	14.2
FGA100N16NB60	100	335	190	220	180	156	19	8x19	250	6.0	17.0	19.5	24	25	32	18.6
FGA125N16NB60	125	385	200	250	210	184	19	8x19	250	6.0	17.2	19.7	24	25	32	26.6
FGA150N16NB60	150	438	210	285	240	221	19	8x23	320	7.0	18.7	21.7	24	30	40	36.2
FGA200N16NB60	200	543	230	340	295	266	20	12x23	320	7.5	20.0	22.0	26	30	40	58.4
FGA250N16NB60	250	645	250	405	355	319	19	12x28	320	9.0	20.0	22.0	26	30	40	85.4
FGA300N16NB60	300	728	270	460	410	370	19	12x28	360	10.0	20.0	22.0	28	30	40	132
FGA350N16NB39	350	812	290	470	520	429	19	16x28	600	14	30.0	-	38	45	66	182.6
FGA400N16NB39	400	923	310	525	580	480	19	16x31	600	16	30.0	-	38	45	60	262.4
FGA450N16NB39	450	974	330	585	640	548	19	20x31	600	17	35.0	-	42	45	130	320.0
FGA500N16NB39	500	1073	350	650	715	609	20	20x34	730	18	35.0	-	45	45	60	400.0
FGA600N16NB39	600	1254	390	770	840	720	19	20x37	730	18	35.0	-	45	45	60	630.0

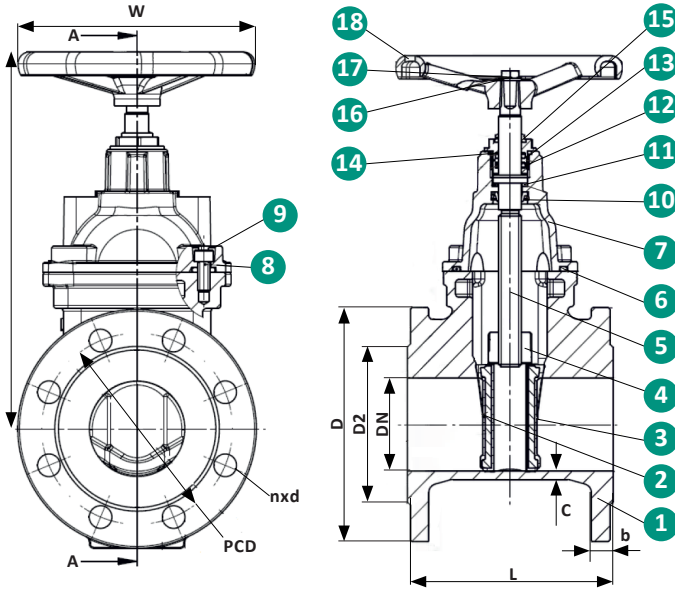
*Dimensions are in millimeters

FIVC Gate Valve

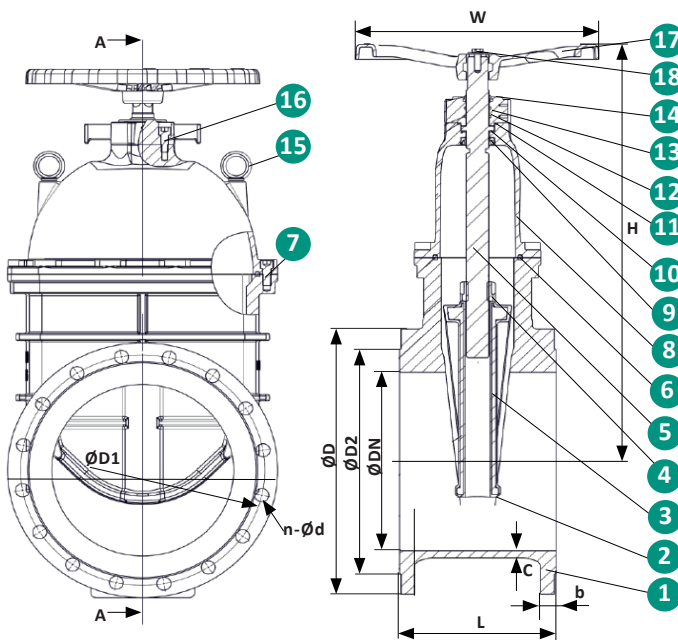
Ductile Iron – PN 16 – Non Rising Stem – EN 1092-2

Product Specification - Dimensions

DN 65-300



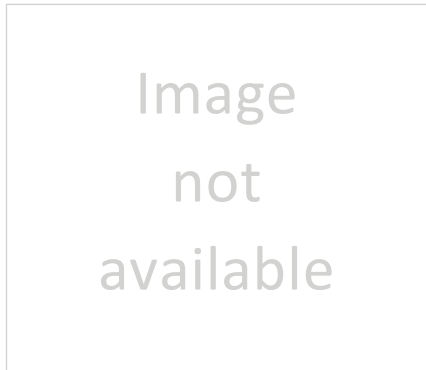
DN 350-600



N°	Name	Material
1	Body	Ductile Iron EN-GJS-500-7 JS 1050
2	Wedge casting	Ductile Iron EN-GJS-500-7 JS 1050
3	Cover of wedge	EPDM
4	Threaded bush	DZR Brass CuZn36Pb2As
5	Stem	Stainless Steel X20Cr13
6	Seal Bonnet	EPDM
7	Bonnet	Ductile Iron EN-GJS-500-7 JS 1050 8.8
8	Bolt	C15, C15R, C15E
9	Screw cover cap	Plastic
10	Seal	EPDM
11	Washer	Nylon
12	O-Ring	EPDM
13	Thrust bearing	DZR Brass CuZn36Pb2As
14	O-Ring	EPDM
15	Seal	NBR/EPDM
16	Washer	C15, C15R, C15E
17	Nut	C15, C15R, C15E
18	Handwheel	Ductile Iron EN-GJS-500-7 JS 1050 8.8

FIVC Gate Valve

Ductile Iron – PN 20 – Non Rising Stem – ANSI 150



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to DIN 3202 F4
- Drilling: ANSI 150
- Closing tightness: ANSI B16.5 150

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 20 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

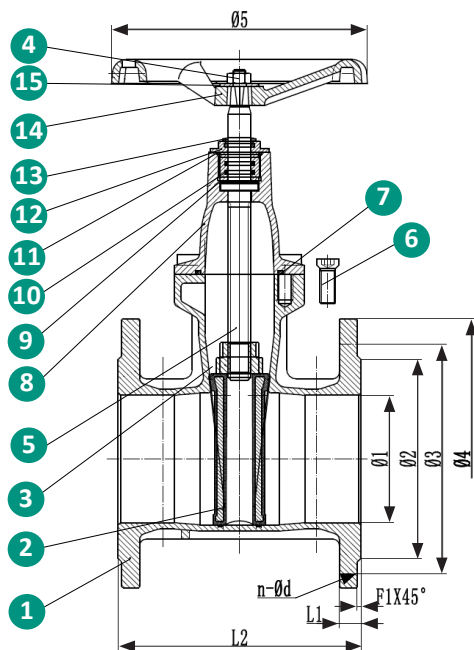
Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation.

The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	L2*	L1*	Ø4*	Ø3*	Ø2*	Ø5*	F1*	n-Ød	Kg
FGA065N150NB216	65	170	17.5	178	140	105	200	1.6	4-Ø19	13
FGA080N150NB216	80	180	19	190.5	152.4	127	200	1.6	4-Ø19	16
FGA100N150NB216	100	190	23.8	229	190.5	157.2	250	1.6	8-Ø19	20
FGA125N150NB216	125	200	23.8	254	215.9	186	250	1.6	8-Ø22.2	26
FGA150N150NB216	150	210	25.4	279.4	241.3	216	300	1.6	8-Ø22.2	32
FGA200N150NB216	200	230	28.6	343	298.5	270	400	1.6	8-Ø22.2	51
FGA250N150NB216	250	250	30.2	406.4	362	324	400	1.6	12-Ø25.4	79
FGA300N150NB216	300	270	31.8	482.6	432	381	400	1.6	12-Ø25.4	112
FGA350N150NB216	350	290	34.9	533.4	476.2	412.7	400	1.6	12-Ø28.6	163
FGA400N150NB216	400	310	36.5	597	540	470	480	1.6	16-Ø28.6	210
FGA500N150NB216	500	350	43	698.5	635	584.2	560	1.6	20-Ø31.8	347
FGA600N150NB216	600	390	47.8	812.8	750	692.5	560	1.6	20-Ø35	557

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GGG 40
2	Wedge	Ductile Iron GGG 40 + EPDM
3	Stem nut	Brass
4	Nut	Stainless Steel SS 304
5	Stem	Stainless Steel SS 420
6	Bolt	Stainless Steel SS 304
7	Gasket	EPDM
8	Bonnet	Ductile Iron GGG 40
9	Stem gasket	Brass
10	O-Ring	EPDM
11	O-Ring	EPDM
12	Packing gland	Ductile Iron GGG 40
13	Dustband	EPDM
14	Handwheel	Ductile Iron GGG 40
15	Gasket	Stainless Steel SS 304

FIVC Gate Valve

Ductile Iron – PN 20 – Flanged – Rising Stem – ANSI 150



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to DIN 3202 F4
- Flange drilling: ANSI B16.5 150

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 20 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

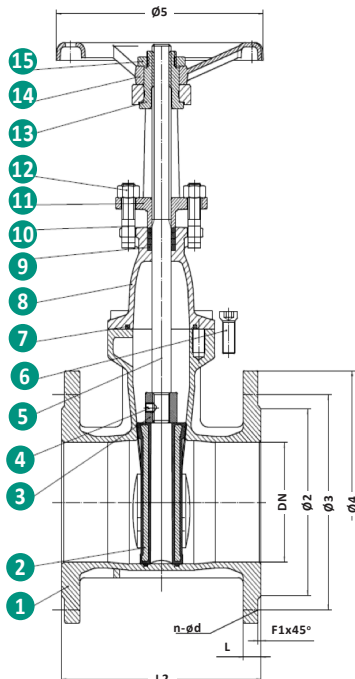
FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	L2*	L1*	Ø4*	Ø3*	Ø2*	Ø5* F1*	n-Ød	Kg
FGA065N150RB216	65	170	17.5	178	140	105	200 1.6	4-Ø19	14
FGA080N150RB216	80	180	19	190.5	152.3	127	200 1.6	4-Ø19	17
FGA100N150RB216	100	190	23.8	229	190.5	157.5	250 1.6	8-Ø19	21
FGA125N150RB216	125	200	23.8	254	215.9	186	300 1.6	8-Ø22.2	28
FGA150N150RB216	150	210	25.4	279.4	241.3	216	400 1.6	8-Ø22.2	35
FGA200N150RB216	200	230	28.6	343	298.5	270	400 1.6	8-Ø22.2	54
FGA250N150RB216	250	250	30.2	406.4	362	324	400 1.6	12-Ø25.4	82
FGA300N150RB216	300	270	31.8	482.6	432	381	400 1.6	12-Ø25.4	118
FGA350N150RB216	350	290	34.9	533.4	479.2	412.7	480 1.6	12-Ø28.6	168
FGA400N150RB216	400	310	36.5	597	540	470	480 1.6	16-Ø28.6	221
FGA500N150RB216	500	350	43	698.5	635	584.2	560 1.6	20-Ø31.8	357
FGA600N150RB216	600	390	47.8	812.8	750	692.5	560 1.6	20-Ø35	578

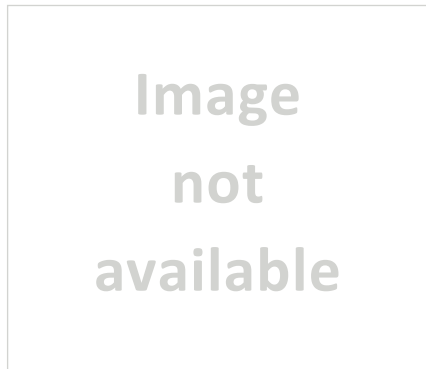
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GGG 40
2	Wedge	Ductile Iron GGG 40 + EPDM
3	Stem head	Ductile Iron GGG 40
4	Fixing bolt	Stainless Steel SS 304
5	Stem	Stainless Steel SS 420
6	Bolt	Stainless Steel SS 304
7	Gasket	EPDM
8	Bonnet	Ductile Iron GGG 40
9	Packing	Graphite
10	T-Bolt	Stainless Steel SS 304
11	Packing gland	Ductile Iron GGG 40
12	Nut	Stainless Steel SS 304
13	Stem nut	Brass
14	Handwheel	Ductile Iron GGG 40
15	Locking nut	Ductile Iron GGG 40

FIVC Gate Valve

Ductile Iron – PN 16 – Rising Stem – EN 1092-2



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to DIN 3202 F4

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

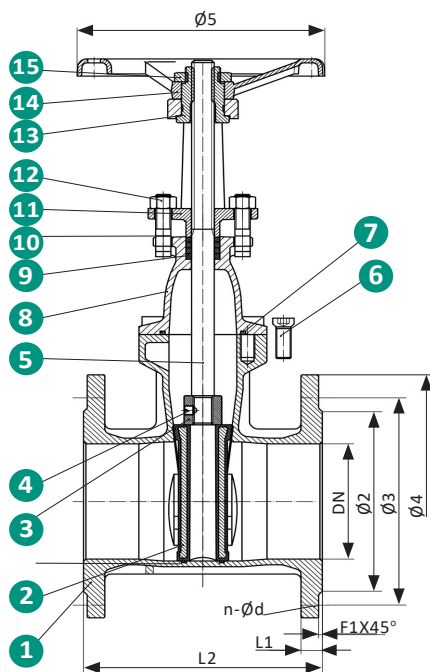
FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	L1*	L2*	Ø2*	Ø3*	Ø4*	Ø5*	F1*	n-Ød*	Kg
FGA065N16RB216	65	19	170	118	145	185	200	3	4-Ø19	13
FGA080N16RB216	80	19	180	132	160	200	200	3	8-Ø19	16
FGA100N16RB216	100	19	190	156	180	220	250	3	8-Ø19	20
FGA125N16RB216	125	19	200	184	210	250	250	3	8-Ø19	27
FGA150N16RB216	150	19	210	211	240	285	300	3	8-Ø23	33
FGA200N16RB216	200	20	230	266	295	340	400	3	12-Ø23	51
FGA250N16RB216	250	22	250	319	355	405	400	3	12-Ø28	78
FGA300N16RB216	300	24.5	270	370	410	460	400	4	12-Ø28	112
FGA350N16RB216	350	26.5	290	429	470	520	400	4	16-Ø28	160
FGA400N16RB216	400	28	310	480	525	580	480	4	16-Ø31	210
FGA500N16RB216	500	31.5	350	609	650	715	560	4	20-Ø31	340
FGA600N16RB216	600	36	390	720	770	840	560	5	20-Ø37	550

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GGG 40
2	Wedge	Ductile Iron GGG 40 + EPDM
3	Stem head	Ductile Iron GGG 40
4	Fixing bolt	Stainless Steel SS 304
5	Stem	Stainless Steel SS 420
6	Bolt	Stainless Steel SS 304
7	Gasket	EPDM
8	Bonnet	Ductile Iron GGG 40
9	Packing	Graphite
10	T-Bolt	Stainless Steel SS 304
11	Packing gland	Ductile Iron GGG 40
12	Nut	Stainless Steel SS 304
13	Stem nut	Brass
14	Handwheel	Ductile Iron GGG 40
15	Locking nut	Ductile Iron GGG 40

FIVC Gate Valve

Ductile Iron – PN 16 – Rising Stem – EN 1092-2

Technical data

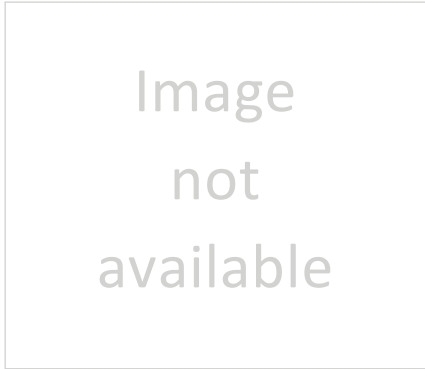
Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Coating: Epoxy powder 0.2-0.3 mm thickness
- USP: Ensures durability
Coated inside and outside the valve
- Design: EN 558-1-1995
- Dimensions: Face-to-Face acc. to BS 5163

Field of applications

- Temperature range: -10 to 85°C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries



FGA series

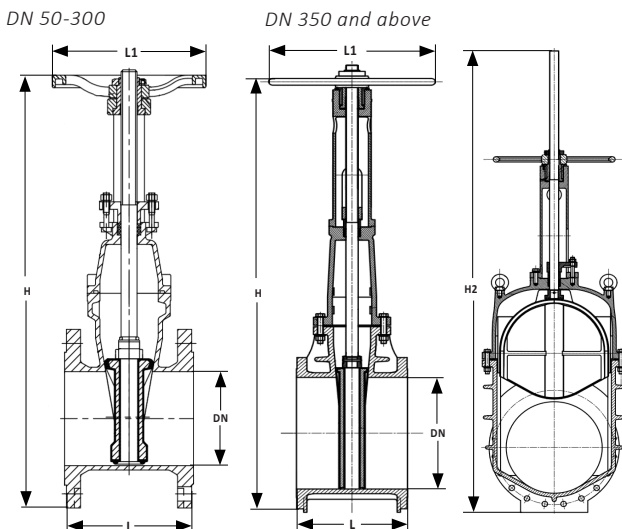
Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes. The valve is drinking water approved and has EPDM rubber compound. It features an outstanding durability due to the inside and outside Epoxy coating. Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve works for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

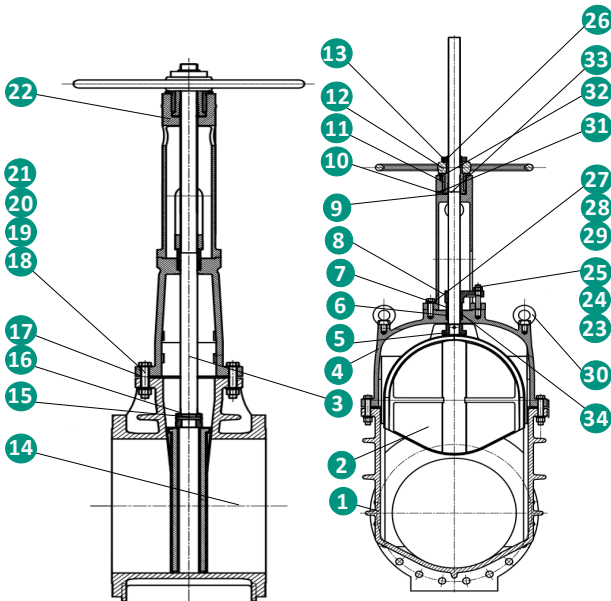
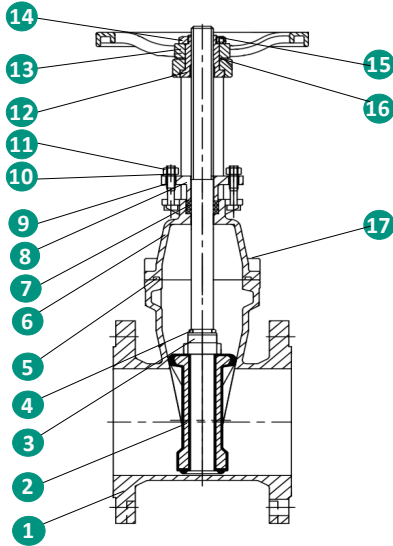
Product code	Size (DN)	L*	L1*	H*	H2*	Kg
FGA050N16RB230	50	178	160	254	-	-
FGA065N16RB230	65	190	160	296	-	-
FGA080N16RB230	80	203	200	349	-	-
FGA100N16RB230	100	229	200	396	-	-
FGA125N16RB230	125	254	250	477	-	-
FGA150N16RB230	150	267	250	548	-	-
FGA200N16RB230	200	292	280	694	-	-
FGA250N16RB230	250	330	370	840	-	-
FGA300N16RB230	300	356	370	960	-	-
FGA350N16RB230	350	381	508	741	862	-
FGA400N16RB230	400	406	558	816	938	-
FGA450N16RB230	450	432	610	936	1057	-
FGA500N16RB230	500	457	610	1021	1142	-
FGA600N16RB230	600	508	762	1173	1295	-

*Dimensions are in millimeters

FIVC Gate Valve

Ductile Iron – PN 16 – Rising Stem – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-JS-1050
2	Seat rubber coating	Ductile Iron EN-JS-1050 Sulfide EPDM
3	Shaft	Stainless Steel BS 970 420S37
4	Cover	Ductile Iron EN-JS-1050
5	Disc nut	Stainless Steel BS 970 304S15
6	Packing	EPDM
7	Packing gland bushing	Brass BS2874 CZ124
8	Packing gland	Ductile Iron EN-JS-1050
9	Shaft nut	Gunmetal Bronze BS1400 LG2
10	Shaft nut washer	Brass BS2874 CZ124
11	Shaft lock nut	Brass BS2874 CZ124
12	Handwheel	Ductile Iron EN-JS-1050
13	Handwheel lock nut	BS 970 708M40 galvanized
14	Square pipe plug	Stainless Steel BS 970 304S15
15	Pin	Stainless Steel BS 970 316S11
16	O-Ring	EPDM
17	Gasket	EPDM
18	Bolt	Stainless Steel BS 970 304S15 Gr 8.8
19	Spring washer	Stainless Steel BS 970 304S15
20	Nut	Stainless Steel BS 970 304S15
21	Washer	Stainless Steel BS 970 304S15
22	Stents	Ductile Iron EN-JS-1050
23	Studs	Stainless Steel BS 970 304S15
24	Spring washer	Stainless Steel BS 970 304S15
25	Nut	Stainless Steel BS 970 304S15
26	Screw	Stainless Steel BS 970 304S15
27	Bolt	Stainless Steel BS 970 304S15 Gr 8.8
28	Spring washer	Stainless Steel BS 970 304S15
29	Washer	Stainless Steel BS 970 304S15
30	Lifting bolt	Steel BS 970 708M40 galvanized
31	Straight through injection oil cup	Brass BS 2874 CZ124
32	Slot countersunk head screws	Steel BS 970 708M40 galvanized
33	Support gasket	Brass BS 2874 CZ124
34	Packing gasket	Brass BS 2874 CZ124

FIVC Gate Valve

Ductile Iron – PN 16 – Rising Stem – WRAS – EN 1092-2



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Coating: Epoxy powder 0.2-0.3 mm thickness
- USP: WRAS approval
- Ensures durability
- Coated inside and outside the valve
- EN 558-1-1995
- Dimensions: Face-to-Face acc. to BS 5163

Field of applications

- Temperature range: -10 to 85°C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

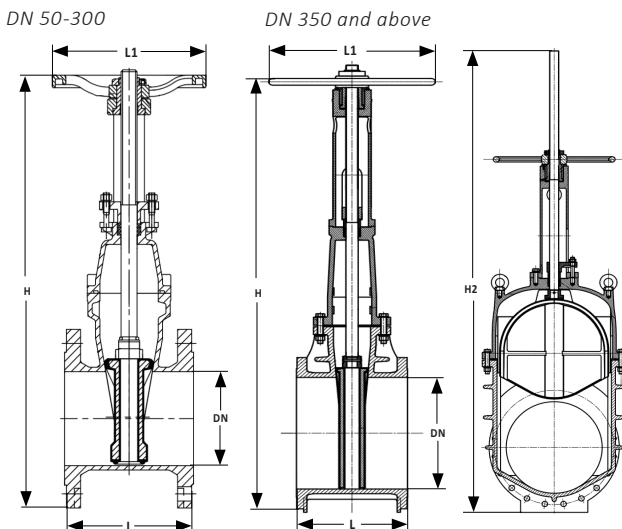
FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes. The valve is drinking water approved and has EPDM rubber compound. It features an outstanding durability due to the inside and outside Epoxy coating. Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve works for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Dimensions



Product Information

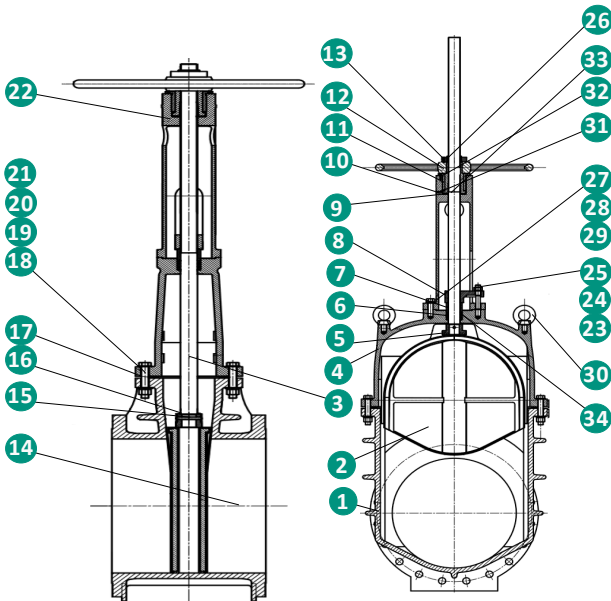
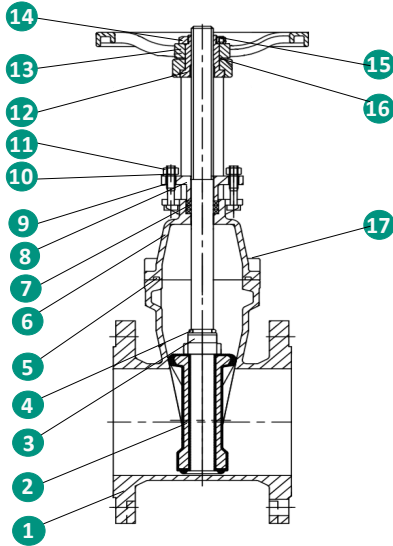
Product code	Size (DN)	L*	L1*	H*	H2*	Kg
FGA050N16RB231	50	178	160	254	-	-
FGA065N16RB231	65	190	160	296	-	-
FGA080N16RB231	80	203	200	349	-	-
FGA100N16RB231	100	229	200	396	-	-
FGA125N16RB231	125	254	250	477	-	-
FGA150N16RB231	150	267	250	548	-	-
FGA200N16RB231	200	292	280	694	-	-
FGA250N16RB231	250	330	370	840	-	-
FGA300N16RB231	300	356	370	960	-	-
FGA350N16RB231	350	381	508	741	862	-
FGA400N16RB231	400	406	558	816	938	-
FGA450N16RB231	450	432	610	936	1057	-
FGA500N16RB231	500	457	610	1021	1142	-
FGA600N16RB231	600	508	762	1173	1295	-

*Dimensions are in millimeters

FIVC Gate Valve

Ductile Iron – PN 16 – Rising Stem – WRAS – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-JS-1050
2	Seat rubber coating	Ductile Iron EN-JS-1050 Sulfide EPDM
3	Shaft	Stainless Steel BS 970 420S37
4	Cover	Ductile Iron EN-JS-1050
5	Disc nut	Stainless Steel BS 970 304S15
6	Packing	EPDM
7	Packing gland bushing	Brass BS2874 CZ124
8	Packing gland	Ductile Iron EN-JS-1050
9	Shaft nut	Gunmetal Bronze BS1400 LG2
10	Shaft nut washer	Brass BS2874 CZ124
11	Shaft lock nut	Brass BS2874 CZ124
12	Handwheel	Ductile Iron EN-JS-1050
13	Handwheel lock nut	BS 970 708M40 galvanized
14	Square pipe plug	Stainless Steel BS 970 304S15
15	Pin	Stainless Steel BS 970 316S11
16	O-Ring	EPDM
17	Gasket	EPDM
18	Bolt	Stainless Steel BS 970 304S15 Gr 8.8
19	Spring washer	Stainless Steel BS 970 304S15
20	Nut	Stainless Steel BS 970 304S15
21	Washer	Stainless Steel BS 970 304S15
22	Stents	Ductile Iron EN-JS-1050
23	Studs	Stainless Steel BS 970 304S15
24	Spring washer	Stainless Steel BS 970 304S15
25	Nut	Stainless Steel BS 970 304S15
26	Screw	Stainless Steel BS 970 304S15
27	Bolt	Stainless Steel BS 970 304S15 Gr 8.8
28	Spring washer	Stainless Steel BS 970 304S15
29	Washer	Stainless Steel BS 970 304S15
30	Lifting bolt	Steel BS 970 708M40 galvanized
31	Straight through injection oil cup	Brass BS 2874 CZ124
32	Slot countersunk head screws	Steel BS 970 708M40 galvanized
33	Support gasket	Brass BS 2874 CZ124
34	Packing gasket	Brass BS 2874 CZ124

FIVC Gate Valve

Ductile Iron – PN 10/16 – Rising Stem – EN 1092-2



FGA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Cast Iron
- Coating: Fusion bonded Epoxy - DIN 30677-2 (GSK approval)
- USP: Prevents vibration. Ensures durability Fully vulcanized EPDM (drinking water approval) Provides smooth operation
- Design: EN 1074 part 1+2
- Dimensions: Face-to-Face acc. to EN 558 table 2 (series 3 and 14)

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes. The wedge is fully vulcanized with drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design.

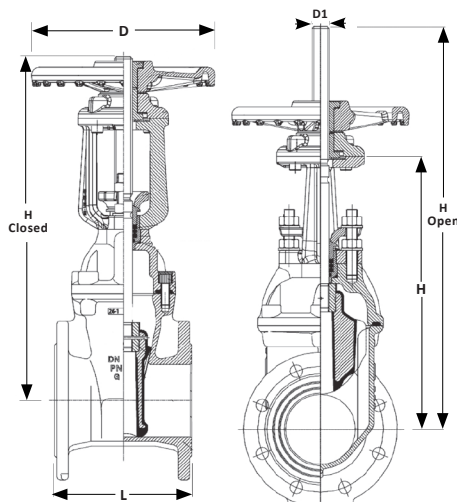
The triple safety stuffing box sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve works for water.

Declaration

Hydraulic test according to EN 1074-1 and 2 / EN 12266. The product has been inspected and tested in accordance with the European PED Directive N° 97/23/EC, dated 25/02/2000, and is CE marked.

Dimensions



Product Information

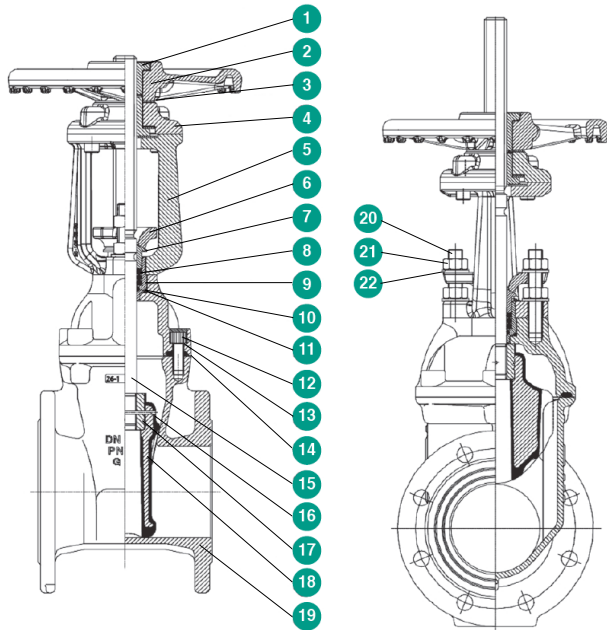
PN	Product code	Size (DN)	L*	H*	HC*	HO*	D*	D1*	Torque (Nm)	Kg
10	FGA065N10RB92	65	170	304	372	444	180	TR20X4	60	22
16	FGA065N16RB92									
10	FGA080N10RB92	80	180	335	401	480	180	TR20X4	60	24
16	FGA080N16RB92									
10	FGA100N10RB92	100	190	390	475	577	254	TR24X5	80	33
16	FGA100N16RB92									
10	FGA125N10RB92	125	200	450	530	655	254	TR24X5	80	41
16	FGA125N16RB92									
10	FGA150N10RB92	150	210	537	632	785	305	TR28X5	80	53
16	FGA150N16RB92									
10	FGA200N10RB92	200	230	685	790	995	356	TR32X6	120	84
16	FGA200N16RB92									
10	FGA250N10RB92	250	250	818	935	1190	432	TR36X6	180	95
16	FGA250N16RB92									
10	FGA300N10RB92	300	270	946	1065	1370	432	TR40X7	200	165
16	FGA300N16RB92									
10	FGA350N10RB92	350	381	1238	1417	1772	640	TR40X7	300	221
16	FGA350N16RB92									254
10	FGA400N10RB92	400	406	1265	1392	1799	640	TR40X7	300	231

*Dimensions are in millimeters • HC: H Closed • HO: H Open

FIVC Gate Valve

Ductile Iron – PN 10/16 – Rising Stem – EN 1092-2

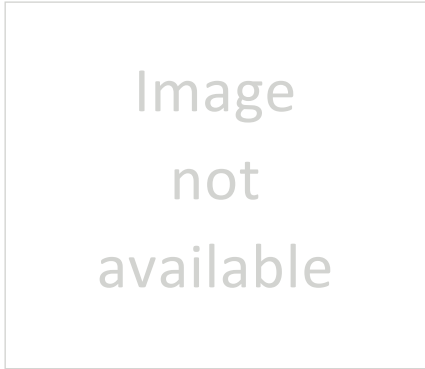
Product Specification



N°	Name	Material
1	Stem nut	DZR Brass CW602N
2	Handwheel	Cast Iron EN-GJL-250 GG 25
3	Anti friction washer	DZR Brass
4	Adaptor flange	Ductile Iron EN-GJS-500-7 GGG 50
5	Yoke	Ductile Iron EN-GJS-500-7 GGG 50
6	Gland follower	Ductile Iron EN-GJS-500-7 GGG 50
7	Gland	Polyamide
8	O-Ring	NBR rubber
9	Gland bushing	Polyamide
10	O-Ring	NBR rubber
11	O-Ring	NBR rubber
12	Bonnet bolt	Stainless Steel A2 sealed with hot melt
13	Bonnet	Ductile Iron EN-GJS-500-7 GGG 50
14	Bonnet gasket	EPDM rubber
15	Stem	Stainless steel 1.4104 (430F)
16	Pin	Stainless steel
17	Wedge nut	DZR Brass CW626N
18	Wedge	Ductile Iron - EPDM encapsulated
19	Body	Ductile Iron EN-GJS-500-7 GGG 50
20	Stud bolt	Stainless Steel
21	Hex nut	Stainless Steel
22	Washer	Stainless Steel

FIVC Gate Valve

Ductile Iron – PN 25 – Non Rising Stem – WRAS – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Coating: Epoxy powder 0.2-0.3 mm thickness
- USP: WRAS approval
Ensures durability
Coated inside and outside the valve
- Design: EN 558-1-1995
- Dimensions: Face-to-Face acc. to BS 5163

Field of applications

- Temperature range: -10 to 85°C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

FGA series

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes. The valve is drinking water approved and has EPDM rubber compound. It features an outstanding durability due to the inside and outside Epoxy coating.

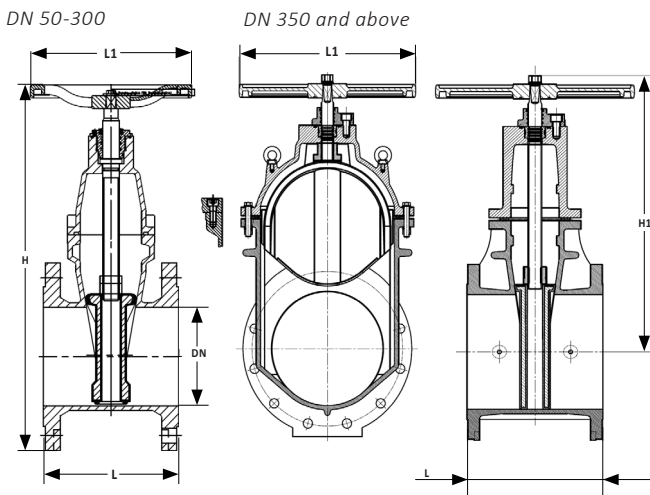
Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve works for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Dimensions



Product Information

Product code	Size (DN)	L*	L1*	H/H1*	Kg
FGA050N25NB231	50	178	160	254	-
FGA065N25NB231	65	190	160	296	-
FGA080N25NB231	80	203	200	349	-
FGA100N25NB231	100	229	200	396	-
FGA125N25NB231	125	254	250	477	-
FGA150N25NB231	150	267	250	548	-
FGA200N25NB231	200	292	280	694	-
FGA250N25NB231	250	330	370	840	-
FGA300N25NB231	300	356	370	960	-
FGA350N25NB231	350	381	508	842	-
FGA400N25NB231	400	406	558	931	-
FGA450N25NB231	450	432	610	1058	-
FGA500N25NB231	500	457	610	1146	-
FGA600N25NB231	600	508	762	1298	-

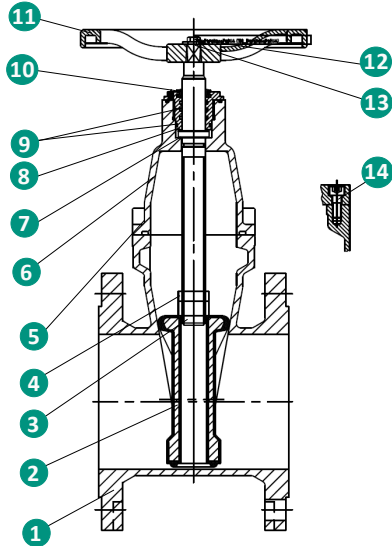
*Dimensions are in millimeters

FIVC Gate Valve

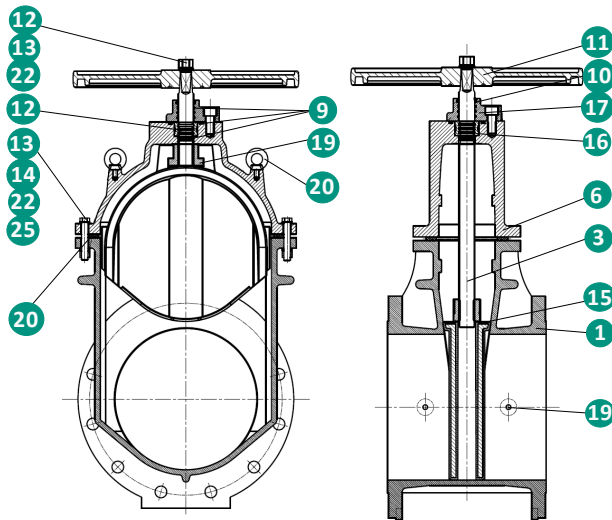
Ductile Iron – PN 25 – Non Rising Stem – WRAS – EN 1092-2

Product Specification

DN 50-300



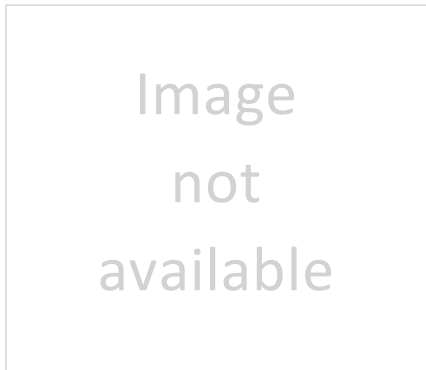
DN 350 and above



N°	Name	Material
1	Body	DN 50-300: Ductile Iron EN-GJS-450-10 DN 350+: Ductile Iron EN-GJS-500-7
2	Wedge	Ductile Iron GJS-450-10 + EPDM
3	Stem	DN 50-300: Stainless Steel 2Cr13 DN 350+: Stainless Steel BS970 316S11
4	Stem nut	Bronze C83600
5	Seal ring	EPDM
6	Bonnet	DN 50-300: Ductile Iron EN-GJS-450-10 DN 350+: Ductile Iron EN-GJS-500-7
7	Adjust washer	Bronze C83600
8	Gland	Ductile Iron GJS-450-10
9	O-Ring	EPDM
10	Dust cover	EPDM
11	Handwheel	DN 50-300: Ductile Iron EN-GJS-450-10 DN 350+: Ductile Iron EN-GJS-500-7
12	Bolt	DN 50-300: Stainless Steel SS304 DN 350+: Stainless Steel BS970 304S15 Cr. 8.8
13	Washer	DN 50-300: Stainless Steel SS304 DN 350+: Stainless Steel BS 970 304S15
14	Screw	Gr. 8.8
15	Seat rubber coating	Ductile Iron EN-GJS-500-7 + EPDM
16	Split ring	Bronze BS 1400 LG2
17	Seal seat	Stainless Steel BS 970 316S11
18	Plate nut	Bronze BS 1400 LG2
19	Square pipe plug	Stainless Steel BS 970 304S15
20	Mouth gasket	EPDM
21	Lifting bolt	Steel BS970 708M40 galvanized
22	Spring washer	Stainless Steel BS970 304S15
25	Nut	Stainless Steel BS 970 304S15

FIVC Gate Valve

Ductile Iron – PN 25 – Rising Stem – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Coating: Epoxy powder (thickness 0.2-0.3 mm)
- USP: WRAS approval
- Standard: BS 5163
- Dimensions: EN 558-1-1995

Field of applications

- Max. temperature: -10 to 85°C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Shipyard industry
- Compressed air
- Other various industries

FGA series

Description

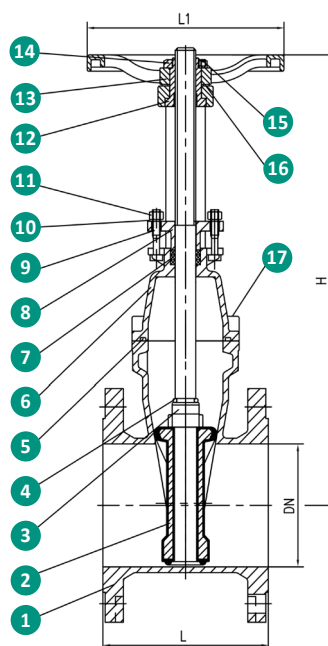
FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes.

Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

Product code	Size (DN)	L*	L1*	H*	Kg
FGA065N25RB230	65	190	160	296	-
FGA080N25RB230	80	203	200	349	-
FGA100N25RB230	100	229	200	396	-
FGA125N25RB230	125	254	250	477	-
FGA150N25RB230	150	267	250	548	-
FGA200N25RB230	200	292	280	694	-
FGA250N25RB230	250	330	370	840	-
FGA300N25RB230	300	356	370	960	-

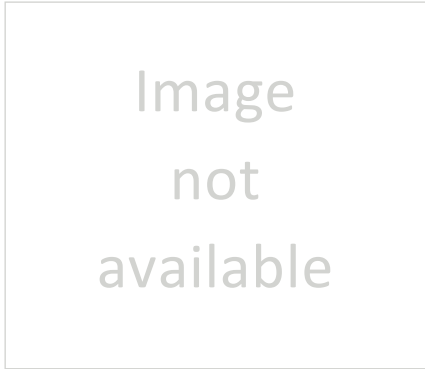
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GJS-450-10
2	Wedge	Ductile Iron GJS-450-10 + EPDM
3	Stem	Stainless Steel 2Cr13
4	O-Ring	EPDM
5	Seal ring	EPDM
6	Bolt	Stainless Steel SS 304
7	Bonnet	Ductile Iron GJS-450-10
8	Packing	EPDM + Bronze C83600
9	Square heat bolt	Stainless Steel SS 304
10	Flat washer	Stainless Steel SS 304
11	Nut	Stainless Steel SS 201
12	Stem nut	Bronze C83600
13	Wheel	Ductile Iron GJS-450-10
14	Lock nut	Stainless Steel SS 304
15	Screw	Stainless Steel SS 304
16	Washer	Bronze C83600
17	Screw	Gr. 8.8

FIVC Gate Valve

Ductile Iron – PN 25 – Rising Stem – WRAS – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Wedge: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Coating: Epoxy powder 0.2-0.3 mm thickness
- USP: WRAS approval
- Ensures durability
- Coated inside and outside the valve
- EN 558-1-1995
- Dimensions: Face-to-Face acc. to BS 5163

Field of applications

- Temperature range: -10 to 85°C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

FGA series

Description

FIVC Gate Valve is designed to be installed in pipelines only for isolating purposes. The valve is drinking water approved and has EPDM rubber compound. It features an outstanding durability due to the inside and outside Epoxy coating.

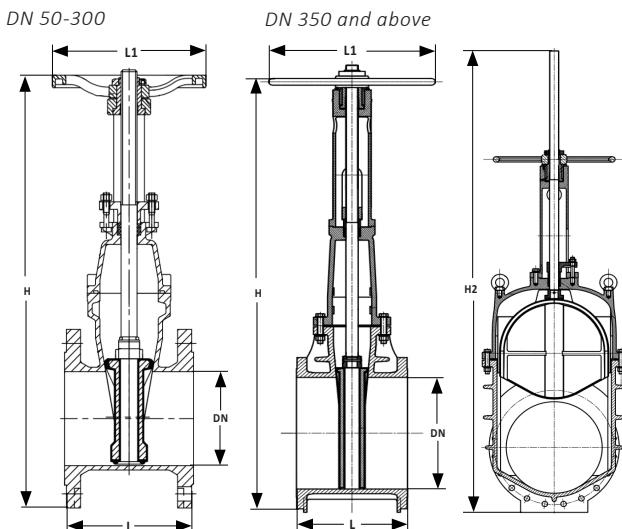
Benefits of using gate valves include the feature of good closing along with the minimum pressure loss. Furthermore, the functionality of the valve prevents the water hammer phenomenon and is used for all types of applications - suitable for both above ground and underground installation. The valve works for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Dimensions



Product Information

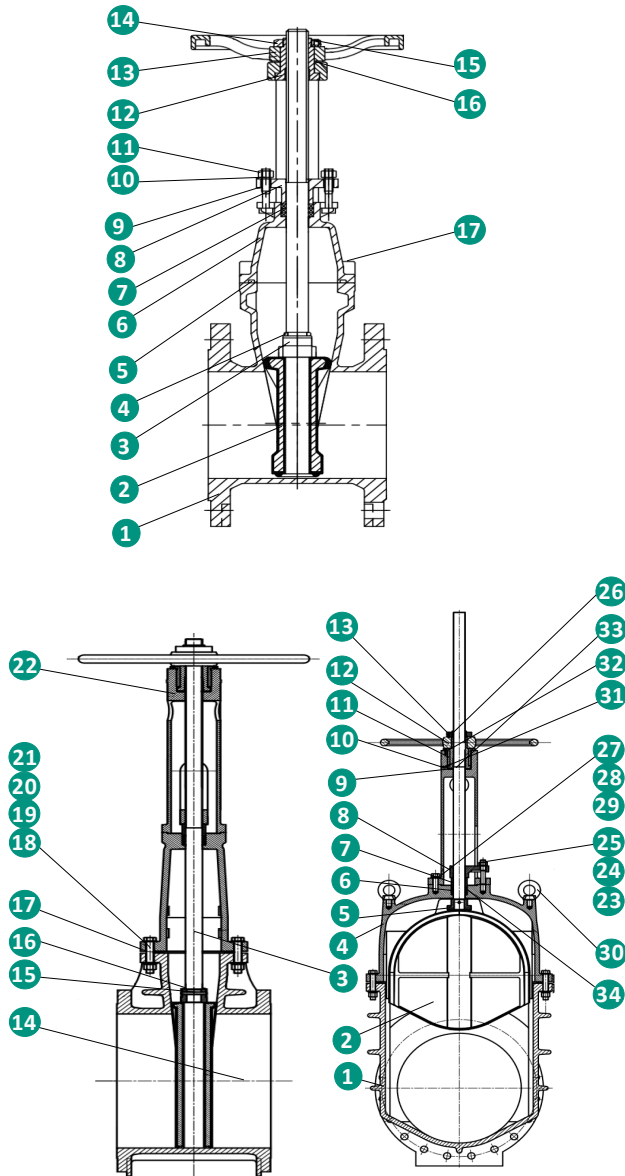
Product code	Size (DN)	L*	L1*	H*	H2*	Kg
FGA050N25RB231	50	178	160	254	-	-
FGA065N25RB231	65	190	160	296	-	-
FGA080N25RB231	80	203	200	349	-	-
FGA100N25RB231	100	229	200	396	-	-
FGA125N25RB231	125	254	250	477	-	-
FGA150N25RB231	150	267	250	548	-	-
FGA200N25RB231	200	292	280	694	-	-
FGA250N25RB231	250	330	370	840	-	-
FGA300N25RB231	300	356	370	960	-	-
FGA350N25RB231	350	381	508	741	862	-
FGA400N25RB231	400	406	558	816	938	-
FGA450N25RB231	450	432	610	936	1057	-
FGA500N25RB231	500	457	610	1021	1142	-
FGA600N25RB231	600	508	762	1173	1295	-

*Dimensions are in millimeters

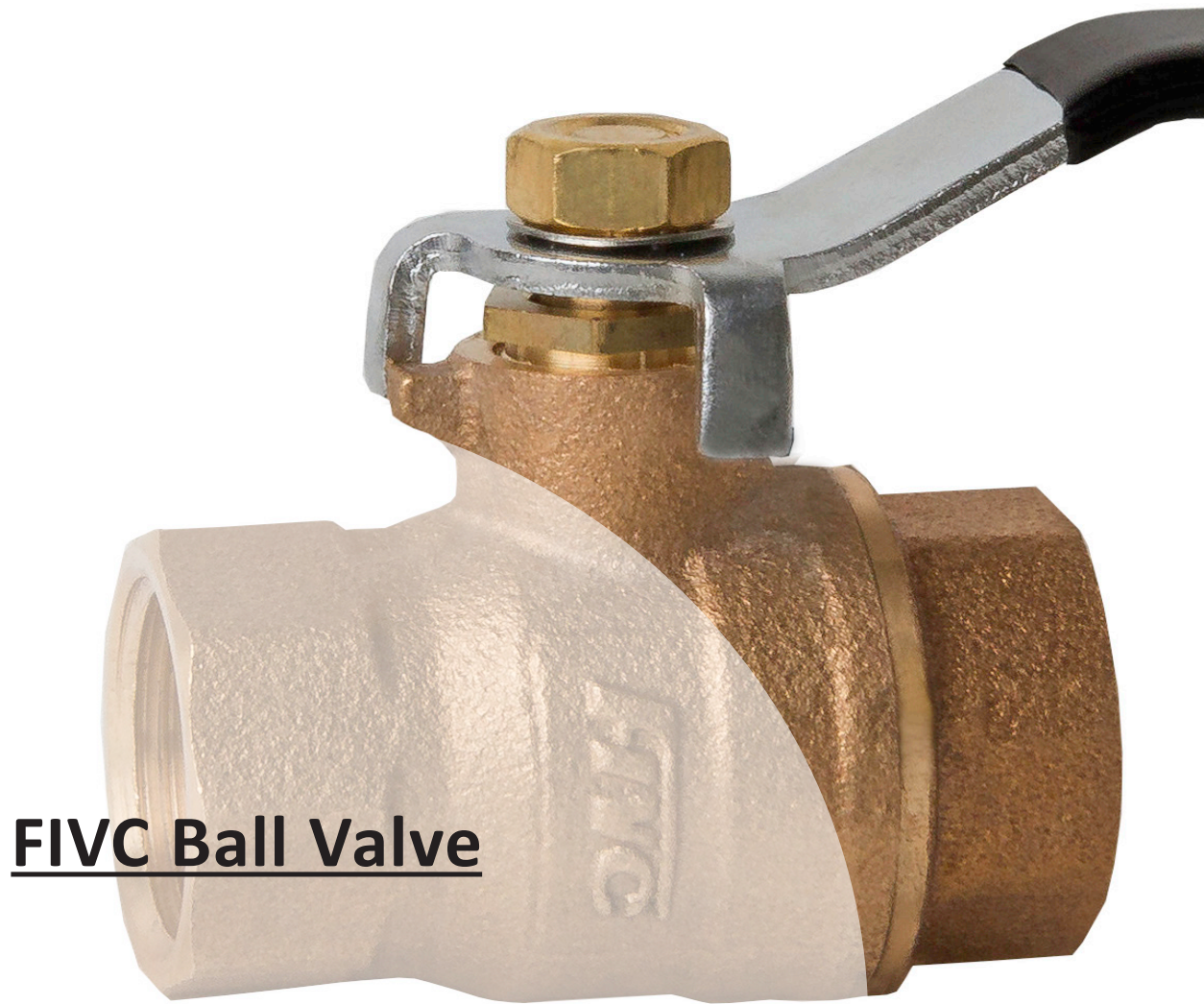
FIVC Gate Valve

Ductile Iron – PN 25 – Rising Stem – WRAS – EN 1092-2

Product Specification



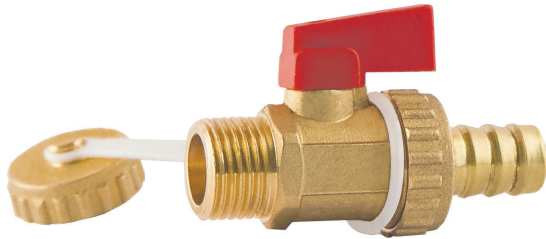
N°	Name	Material
1	Body	Ductile Iron EN-JS-1050
2	Seat rubber coating	Ductile Iron EN-JS-1050 Sulfide EPDM
3	Shaft	Stainless Steel BS 970 420S37
4	Cover	Ductile Iron EN-JS-1050
5	Disc nut	Stainless Steel BS 970 304S15
6	Packing	EPDM
7	Packing gland bushing	Brass BS2874 CZ124
8	Packing gland	Ductile Iron EN-JS-1050
9	Shaft nut	Gunmetal Bronze BS1400 LG2
10	Shaft nut washer	Brass BS2874 CZ124
11	Shaft lock nut	Brass BS2874 CZ124
12	Handwheel	Ductile Iron EN-JS-1050
13	Handwheel lock nut	BS 970 708M40 galvanized
14	Square pipe plug	Stainless Steel BS 970 304S15
15	Pin	Stainless Steel BS 970 316S11
16	O-Ring	EPDM
17	Gasket	EPDM
18	Bolt	Stainless Steel BS 970 304S15 Gr 8.8
19	Spring wahser	Stainless Steel BS 970 304S15
20	Nut	Stainless Steel BS 970 304S15
21	Washer	Stainless Steel BS 970 304S15
22	Stents	Ductile Iron EN-JS-1050
23	Studs	Stainless Steel BS 970 304S15
24	Spring washer	Stainless Steel BS 970 304S15
25	Nut	Stainless Steel BS 970 304S15
26	Screw	Stainless Steel BS 970 304S15
27	Bolt	Stainless Steel BS 970 304S15 Gr 8.8
28	Spring washer	Stainless Steel BS 970 304S15
29	Washer	Stainless Steel BS 970 304S15
30	Lifting bolt	Steel BS 970 708M40 galvanized
31	Straight through injection oil cup	Brass BS 2874 CZ124
32	Slot countersunk head screws	Steel BS 970 708M40 galvanized
33	Support gasket	Brass BS 2874 CZ124
34	Packing gasket	Brass BS 2874 CZ124



FIVC Ball Valve

FIVC Drain Cock

Brass – PN 10 – w/Ball – ISO 228



FBA series

Technical data

Main features and materials

- Body: Brass CW617N
- Stem: NBR Rubber
- Cap: Brass CW617N
- Nut: Brass CW617N
- Ball: Nickel and Chromium plated
- Finishing: Sandblast
- Seat: NBR Rubber
- Handle: Red ABS

Field of applications

- Max. temperature: 80 °C
- Max. working pressure: 10 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Low-pressure steam plants
- Mechanical industry
- Hot and cold water plants
- Air conditioning systems

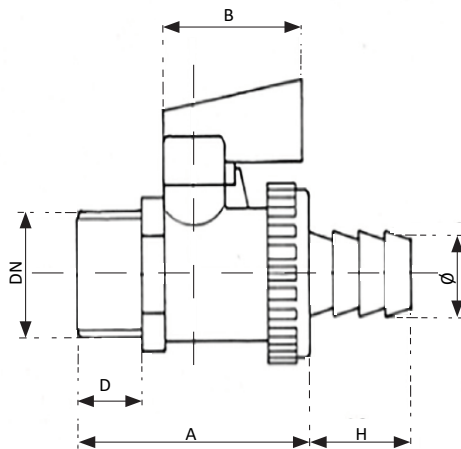
Description

FIVC Drain Cock is designed as a ball valve in Brass to drain off the liquid in the pipe. Since the ball valve is a valve of interception and not of regulation, it must be either opened or closed completely. Please note, the pressure and temperature rates stated above are only valid for non-dangerous liquids and liquids that are non-aggressive to the copper alloys including Bronze and Brass.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	H*	D*	Ø*	Kg
FBA015B10D	15	50	30	23	14	14	0.18

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass CW617N UNI EN 12165
2	Stem	Brass CW614N UNI EN 12164
3	Cap	Brass CW617N UNI EN 12165
4	Nut	Brass CW617N UNI EN 12165
5	Ball	Brass CW614N UNI EN 12164. Nickel and Chromium plated by diamond-tipped tool
6	Hose union	Brass CW614N UNI EN 12164
7	Handle	ABS in red
8	O-Ring	NBR Rubber
9	Finishing	Sandblast

FIVC Hose Bibcock

Brass – PN 10 – ISO 228



FBA series

Technical data

Main features and materials

- Body: Brass CW617N
- Stem: Brass CW614N
- Ball: Brass CW614N
- Seat: PTFE (with 7° min. tightness angle)
- Lever: Aluminium
- Gland: Brass CW614N
- USP: Easy control of the flow

Field of applications

- Temperature range: 80 °C
- Max. working pressure: 10 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Low-pressure steam plants
- Mechanical industry
- Hot and cold water plants
- Air conditioning systems

Description

FIVC Hose Bib is designed as a threaded tap to be installed in as a source of media for isolation purposes.

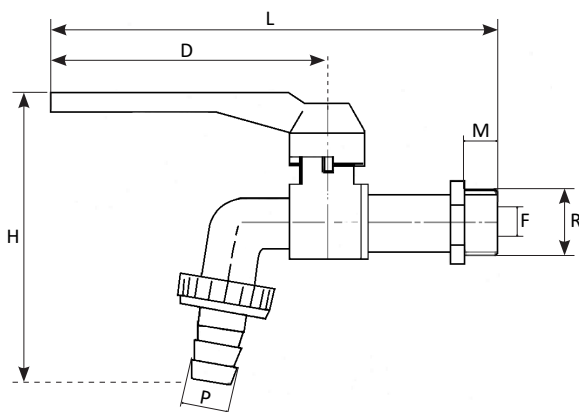
Benefits of using the hose bibcock is the easy control of the flow.

The valve can be used for Water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	D*	H*	L*	M*	P*	F*	Kg
FBA010B10BC	10	90	92	145	11	14	10	-
FBA015B10BC	15	90	92	145	11	14	10	-
FBA020B10BC	20	90	103	155	14	20	12	-
FBA025B10BC	25	90	118	170	15	25	14	-

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass CW617N UNI EN 12165
2	Stem	Brass CW614N UNI EN 12164
3	Gland	Brass CW614N UNI EN 12164
4	Seat	PTFE
5	Ball	Brass CW614N UNI EN 12164. Nickel and Chromium plated by diamond-tipped tool
6	Stem packing	PTFE
7	Handle	Plastic in red
8	Lever	Aluminium
9	Finishing	Matt nickel
10	Antifriction ring	PTFE

FIVC Ball Valve

Brass – Lockable – PN 32/25 – Full Port – ISO 228



FBA series

Technical data

Main features and materials

- Body: Brass CW617N
- Ball: Brass CW617N
- Stem: Brass CW614N
- Seat: PTFE with 7° min. tightness angle
- Square head: Hot forged Brass

Field of applications

- Max. temperature: 80 °C
- Max. working pressure: 32/25 bar

- Industrial cold/hot water plants
- Compressed air plants
- Industrial technologies
- Heat engineering
- Refrigeration and air conditioning

Description

FIVC Ball Valve is designed with Female-Female connections with lockable square heads (also available in Female-Male connections). FlowCon IVC provides two models including Model F21005 and Model F21003. The last-mentioned model is designed with a 28 mm square head.

At the pressures and temperature stated above, the valves can be used for the following fluids:

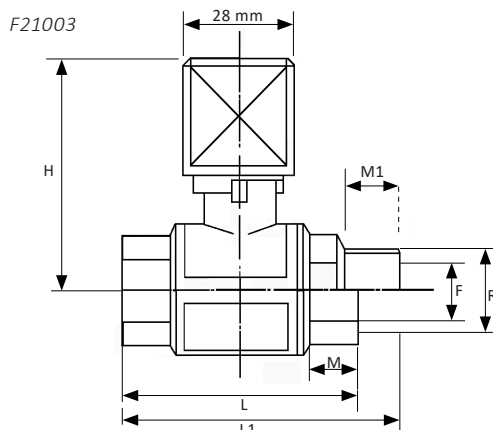
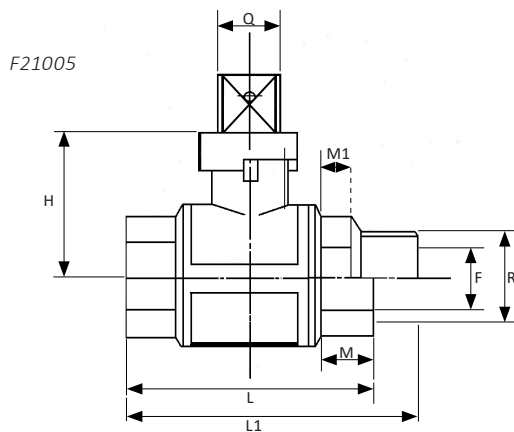
Dangerous liquids (tab.8); Non-dangerous liquids (tab.9);

The above statement is valid if the fluids concerned are non-aggressive to the Copper Alloys (Bronze - Brass).

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

	Product code	Size (DN)	PN	Kv (m³/h)	Q*	H*	L*	L1*	M*	M1*	F*
Lockable square head	FBA015B32F21005	15	32	15.5	13	50	54	63	13	13	14
	FBA020B32F21005	20	32	31.7	13	53	58	69	13	14	19
	FBA025B32F21005	25	32	58.5	17	65	68	80	14	16	25
	FBA032B25F21005	32	25	96	17	70	82	93	17	18	31
	FBA040B25F21005	40	25	160	19	88	89	103	17	20	39
28 mm square head	FBA050B25F21005	50	25	269	19	98	105	122	19	20	49
	FBA015B32F21003	15	32	15.5	-	59	54	63	13	13	14
	FBA020B32F21003	20	32	31.7	-	62	58	69	13	14	19
	FBA025B32F21003	25	32	58.5	-	74	68	80	14	16	25
	FBA032B25F21003	32	25	96	-	80	82	93	17	18	31
	FBA040B25F21003	40	25	160	-	94	89	103	17	20	39
	FBA050B25F21003	50	25	269	-	107	105	122	19	20	49

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass CW617N UNI EN 12165
2	Ball	Brass CW617N UNI EN 12165
3	Stem	Brass CW614N UNI EN 12164
4	Seat	PTFE with 7° min. tightness angle
5	Gland	Brass CW614N UNI EN 2164
6	Square head	Hot forged Brass
7	Ball ground	Nickel and chromium plated Aluminium by Diamond-tipped tool
8	Stem packing	PTFE
9	Antifriction ring	PTFE
10	Finishing	Matt chrome finishing

FIVC Ball Valve

Brass – PN 35/28 – Full Port – ISO 228



FBA series

Technical data

Main features and materials

- Body: Brass CW617N
- Stem: Brass CW614N
- Ball: Brass CW617N
- Lever handle: Stainless Steel
- USP: Compact settlement
Environment-friendly
Suitable for plumbing systems

Field of applications

- Temperature range: -20 to 20 °C
-20 °C (with 50% glycol)
- Max. working pressure: DN 15-20: 35 bar at 20 °C
DN 25-50: 28 bar at 20 °C
- with liquid hydrocarbon: 12 bar at 20 °C
- Max. operating pressure (MOP) with gas: 5 bar
- Max. working conditions with dry saturated steam: 185 °C at 10.5 bar
- Industrial cold/hot water plants
- Compressed air plants
- Industrial technologies
- Heat engineering
- Refrigeration and air conditioning

Description

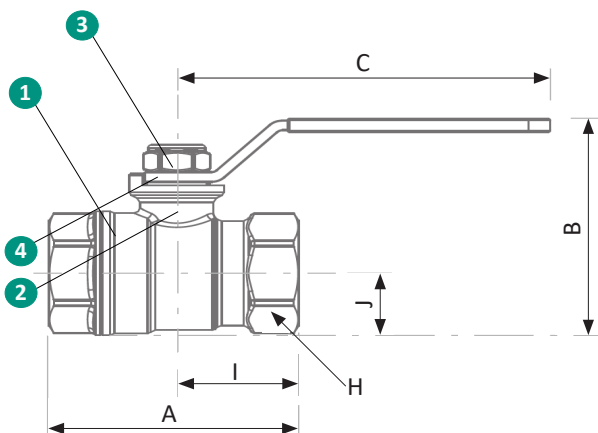
FIVC Ball Valve provides full port, hence implies less resistance in the flow. The valve is designed with Female-Female connections and is suitable for several applications including heating, glycol, and industry. The valve can be used for water and non dangerous gas.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product in DN 15-25 is exempted from CE marking (Cf. Art. 4.3).

For the use with dangerous gas, the valves having sizes DN 40 and above, are CE marked.

Dimensions



Product Information

Product code	Size (DN)	A*	I*	B*	J*	C*	H*	PN	Kv (m ³ /h)	Kg
FBA015B35F21001	15	53	27	51	16	77	25	35	12.7	0.18
FBA020B35F21001	20	60	30	67	20	95	31		24.6	0.27
FBA025B28F21001	25	74	37	76	25	95	38		48.5	0.41
FBA032B28F21001	32	84	42	85	29	95	47	28	98.0	0.565
FBA040B28F21001	40	95	47	104	35	137	54		140	0.984
FBA050B28F21001	50	109	54	120	43	137	66		211	1.54

*Dimensions are in millimeters

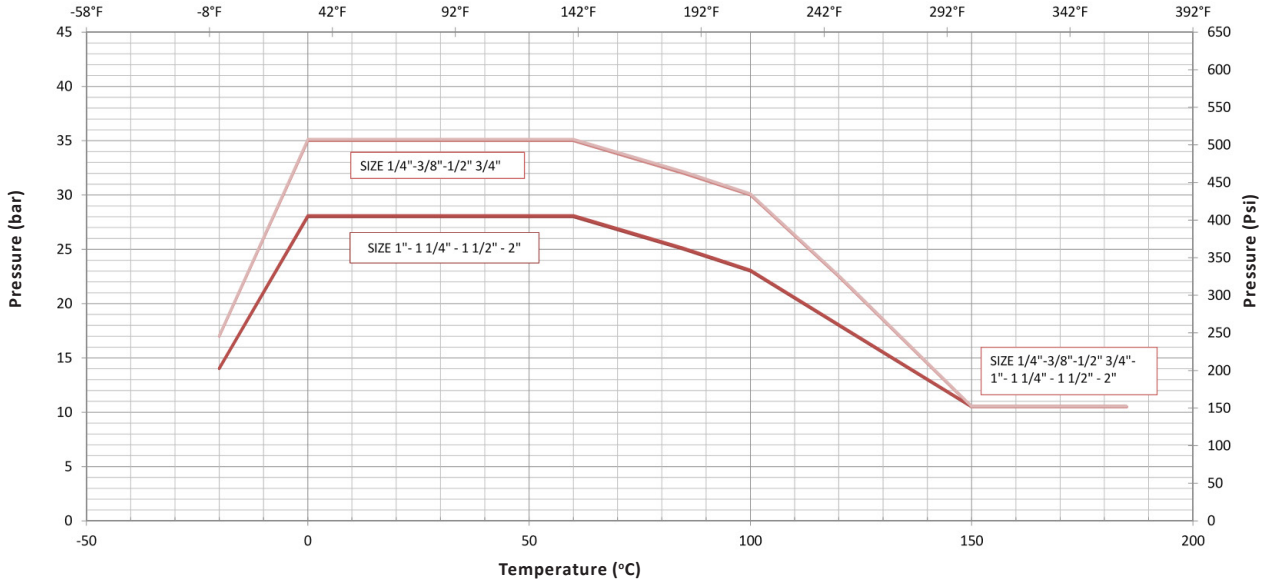
Product Specification

N°	Name	Material
1	Body	Brass CW617N UNI EN 12165
2	Stem	Brass CW617N UNI EN 12165
3	Nut	Anti-corrosion coating
4	Lever handle	Stainless Steel with PVC anti-corrosion coating
5	Ball	Brass CW617N

FIVC Ball Valve

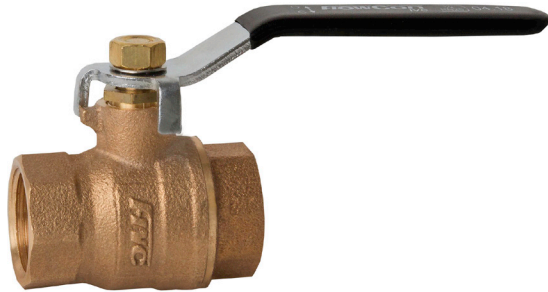
Brass – PN 35/28 – Full Port – ISO 228

Temperature-Pressure Graph



FIVC Ball Valve

Bronze – PN 25 – Full Port – WRAS – ISO 228



FBA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Gasket: Steel 65 Mn
- Stem: Brass CW614N
- Ball: Brass CuZn39Pb3
- Lever handle: Mild Steel
- Seat: PTFE
- USP: WRAS approval
Compact settlement
Environment-friendly

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 25 bar
- Industrial cold/hot water plants
- Compressed air plants
- Industrial technologies
- Heat engineering
- Refrigeration and air conditioning

Description

FIVC Ball Valve provides full port, hence implies less resistance in the flow. The valve is designed with Female-Female connections and is suitable for several applications including heating, glycol, and industry. The valve is constructed in Bronze and provides high tightness.

The valve can be used for Water, Gas, and Oil respectively.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).



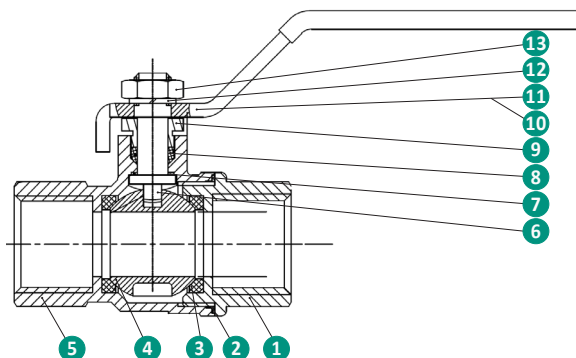
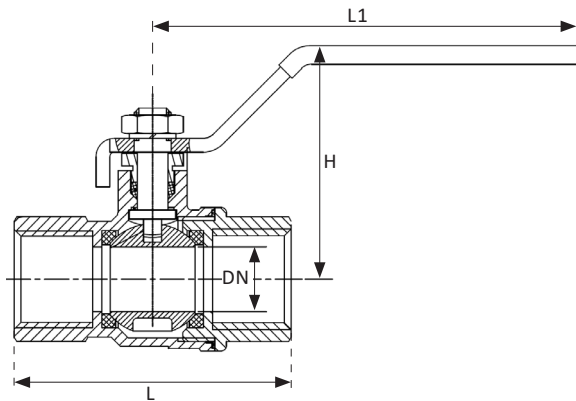
Alternative Product Versions

Other Standards

ANSI • ASME B1.20.1 • NPT

ISO 7/1 Rc/Rp threads

Dimensions



Product Information

Product code	Size (DN)	L*	L1*	d*	H*	Kg
FBA015O25F212012112	15	53	95	14	44	0.228
FBA020O25F212012112	20	61	110	19	51	0.366
FBA025O25F212012112	25	71	110	24	55	0.539
FBA032O25F212012112	32	85	140	31	65	0.838
FBA040O25F212012112	40	92	140	38	70	1.133
FBA050O25F212012112	50	114	160	49	83	1.88

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Seat retainer	Bronze CC491K BS EN 1982
2	Gasket	PTFE
3	Seat	PTFE
4	Ball	Brass CW614N BS EN 12164
5	Body	Bronze CC491K BS EN 1982
6	Stem	Brass CW614N BS EN 12164
7	Stem gasket	PTFE
8	Packing	PTFE
9	Gland nut	Brass CW614N BS EN 12164
10	Lever	Mild Steel
11	Lever cover	PVC
12	Gasket	Steel 65 Mn
13	Lever nut	Brass CW614N BS EN 12164

FIVC Ball Valve

Bronze – PN 40 – Full Port – ISO 228



FBA series

Technical data

Main features and materials

- Body: Bronze CC491K
- Body end: Bronze CC491K
- Ball: Brass CW617N
- Stem: Brass CW614N
- Seat: PTFE

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: 40 bar (30 bar at 150 °C)

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Ball Valve provides full port, hence implies less resistance in the flow.

The valve is designed with Female-Female connections and is suitable for plumbing systems.

The valve is constructed in Bronze and has a blow-out proof stem. This valve works for Water, Gas, and Oil of 600 Psi.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product in DN 15-25 is exempted from CE marking (Cf. Art. 4.3). The valves having sizes DN 32 and above are CE marked.

Alternative Product Versions

PN 40, all in Bronze/AL

WOG: 600 Psi

Item No: FBA015O40F20201.. FBA100O40F20201

PN 40, ball and stem in Bronze/AL

WOG: 300 Psi

Item No: FBA015O40F20301.. FBA100O40F20301

PN 40, ball and stem in AISI 316

WOG: 600 Psi

Item No: FBA015O40F20401.. FBA100O40F20401

PN 40, body in Bz/AL, ball and stem in AISI 316

WOG: 600 Psi

Item No: FBA015O40F20601.. FBA100O40F20601

PN 40, Monel 400, Ball and stem in Monel 400

WOG: 600 Psi

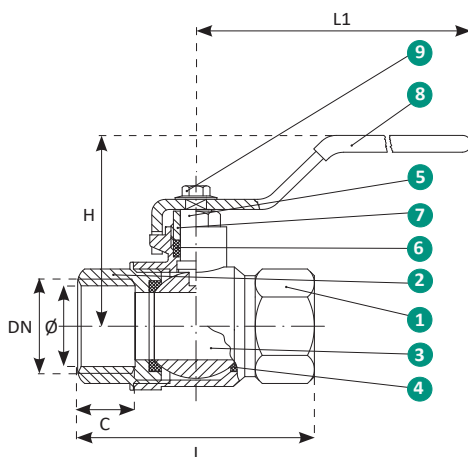
Item No: FBA015O40F20701.. FBA100O40F20701

Other Standards

ANSI • ASME B1.20.1 • NPT

ISO 7/1 Rc/Rp threads

Dimensions



Product Information

Product code	Size (DN)	L*	L1*	H*	C*	Kg
FBA015O40F20101	15	57	92	55	14	0.255
FBA020O40F20101	20	68	92	56	17	0.380
FBA025O40F20101	25	79	126	68	19	0.580
FBA032O40F20101	32	93	126	72	21	0.920
FBA040O40F20101	40	107	142	82	22	1.650
FBA050O40F20101	50	130	142	91	26	2.300

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K UNI EN 1982
2	Body end	Bronze CC491K UNI EN 1982
3	Ball	Brass CW617N UNI EN 12165
4	Ball seat	PTFE
5	Stem	Brass CW614N UNI EN 12164
6	Packing	PTFE
7	Packing gland	Brass CW614N UNI EN 12164
8	Handle	Steel Fe P11 UNI EN 10111 – Dacromet
9	Screw	Steel Fe 42 UNI EN 10025 – Dacromet

FIVC Ball Valve

Grey Cast Iron – PN 16 – EN 1092-2



FBA series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Gasket: Stainless Steel+Graphite
- Seat: PTFE
- Ball: Stainless Steel
- Stem: Stainless Steel
- Handle: Ductile Iron
- USP: Compact settlement
- Standard: DIN 2501/DIN 2533
API 598 or ISO 5208
DN 65-100: DIN F4
DN 125-300: DIN F5

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

The FIVC Ball Valve is designed as a quarter-turn, full port valve to be installed in pipelines for isolating purposes.

Benefits of using ball valves include among others their durability and reliability. Further, the full port functionality ensures lowered friction loss in the pipeline.

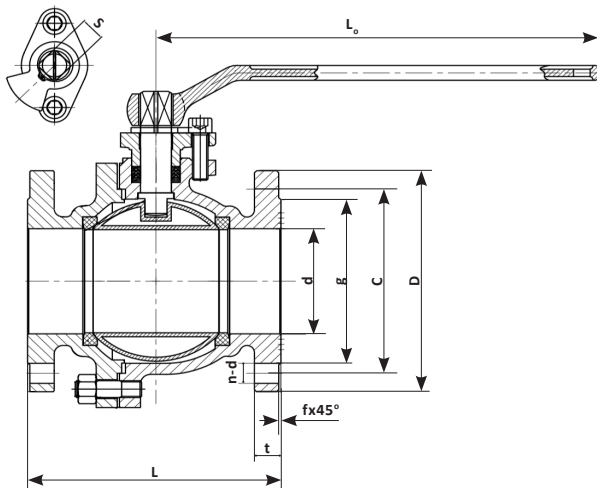
Besides, the ball valve ensures cost- and maintenance efficiency due to its long life span and performance.

The valve can be used for Water, Oil, and Steam.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

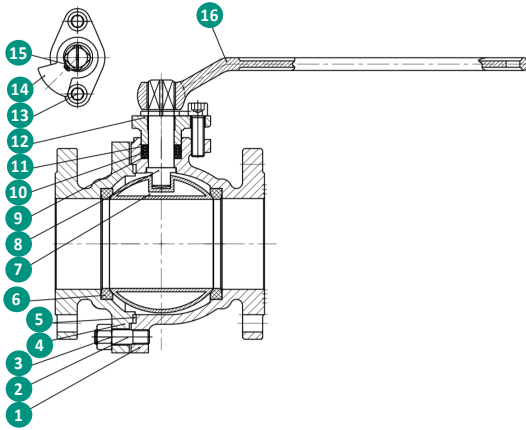
Product code	Size (DN)	L*	D*	c*	g*	d*	N-h*	t*	f*	H*	s*	L _h *	Kg
FBA065C16F215	65	170	185	145	122	65	4-Ø18	18	3	152	17	250	-
FBA080C16F215	80	180	200	160	138	80	8-Ø18	20	3	170	19	350	-
FBA100C16F215	100	190	220	180	158	100	8-Ø18	20	3	205	22	400	-
FBA125C16F215	125	325	250	210	188	125	8-Ø18	26	3	250	27	645	-
FBA150C16F215	150	350	285	240	212	150	8-Ø22	26	3	270	27	645	-
FBA200C16F215	200	400	340	295	268	200	12-Ø22	30	3	340	30	750	-
FBA250C16F215	250	450	405	355	320	250	12-Ø26	32	3	468	40	Gearbox	-
FBA300C16F215	300	500	460	410	370	300	12-Ø28	32	3	514	50	Gearbox	-

*Dimensions are in millimeters • L_h: Handle

FIVC Ball Valve

Grey Cast Iron – PN 16 – EN 1092-2

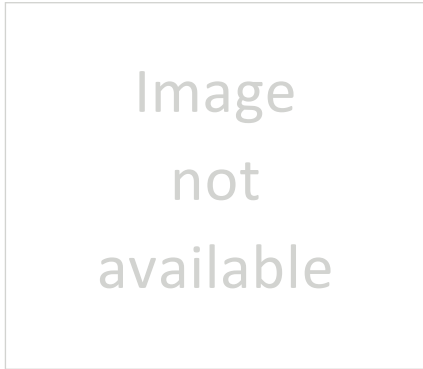
Product Specification



N°	Name	Material
1	Body	Grey Cast Iron GG25
2	Stud	35
3	Nut	Steel SS 400
4	Adapter Cap	Grey Cast Iron GG 25
5	Gasket body	Stainless Steel F304 + Graphite
6	Seat	PTFE
7	Ball	Stainless Steel 201 (<i>solid hollow ball</i>)
8	Stem	Stainless Steel 2Cr13
9	Packing	PTFE
10	Packing	PTFE
11	Packing	PTFE
12	Gland	Grey Cast Iron GG25
13	Hex bolt	35
14	Locator card	Steel SS 400
15	Flexible washer	65Mn
16	Handle	Ductile Iron EN-GJS-400-18

FIVC Ball Valve

Grey Cast Iron – PN 16 – Full Port – EN 1092-2



Technical data

Main features and materials

- Body: Grey Cast Iron
- Screw plug: Grey Cast Iron
- Stem: Stainless Steel
- Ball: Brass CuZn39Pb3
- Lever handle: Carbon Steel and Zinc galvanized
- USP: High tightness
Leakproofness class A acc. to EN 12266-1
Compact settlement
Environment-friendly
- Dimensions: Face-to-Face acc. to EN 558-1 (*series 14*)

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar (*14.4 bar at 150 °C*)
DN 250: 10 bar

FBA series

- Industrial cold/hot water plants
- Compressed air plants
- Industrial technologies
- Heat engineering
- Refrigeration and air conditioning

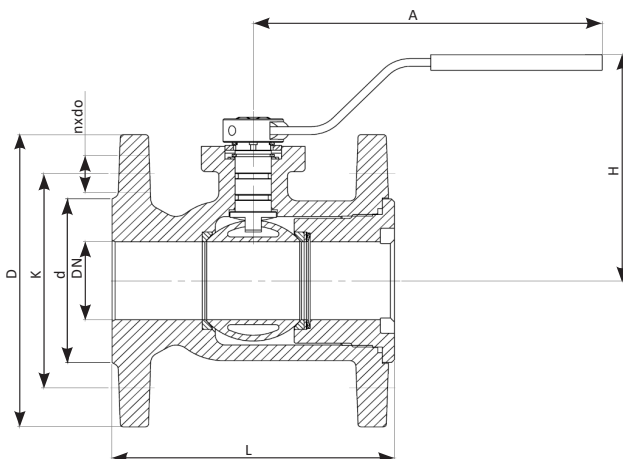
Description

The FIVC Ball Valve is designed as a quarter-turn, full port valve to be installed in pipelines for isolating purposes. Benefits of using ball valves include among others their durability and reliability. Further, the full port functionality ensures lowered friction loss in the pipeline. Besides, the ball valve ensures cost- and maintenance efficiency due to its long life span and performance. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

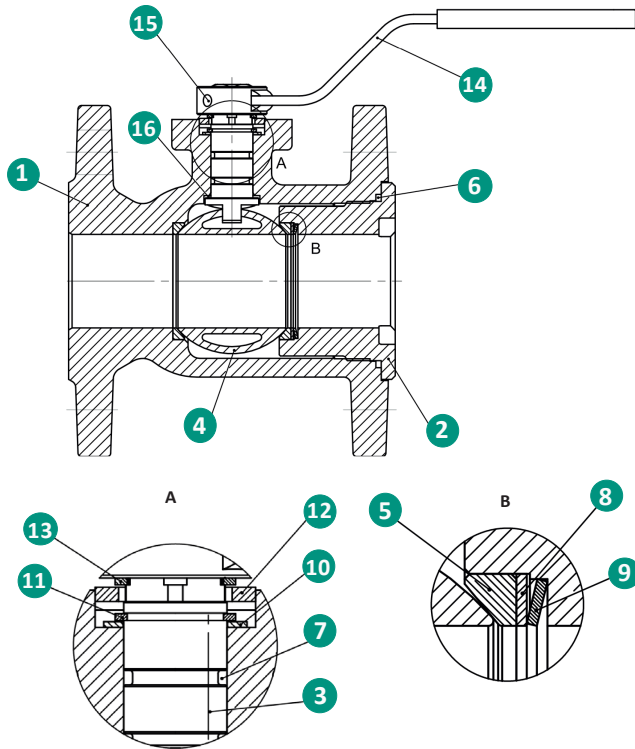
Product code	Size (DN)	D*	d*	K*	n x do*	L*	H*	A*	A (kg)	B (kg)
FBA065C16F12	65	185	118	145	4 x 19	170	150	300	11.9	10.5
FBA080C16F12	80	200	132	160	8 x 19	180	160	300	16.5	15.5
FBA100C16F12	100	220	156	180	8 x 19	190	180	525	25.0	18.5
FBA125C16F12	125	250	184	210	8 x 19	200	245	625	36.9	28
FBA150C16F12	150	285	211	240	8 x 23	210	260	625	45	38.5
FBA200C16F8	200	340	266	295	12 x 23	400	320	1000	93	-
FBA250C10F8	250	405	355	350	12 x 20	450	-	150	180	-

*Dimensions are in millimeters

FIVC Ball Valve

Grey Cast Iron – PN 16 – Full Port – EN 1092-2

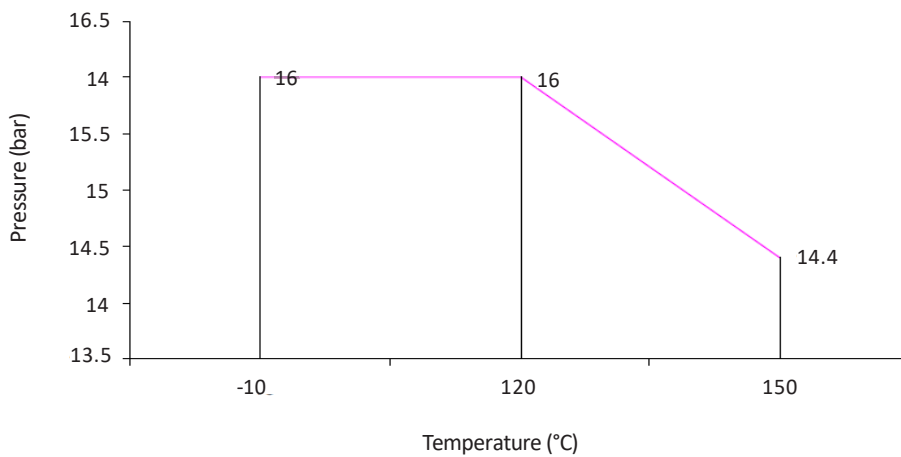
Dimensions



Product Specification

N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Screw plug	Grey Cast Iron EN-GJL-250 JL 1040
3	Stem	Stainless Steel X20Cr13 1.4006
4	Ball	Brass CuZn39Pb3
5	Ball seat	PTFE
6	Sealing ring	EPDM
7	Sealing ring	EPDM
8	Stopper ring	Stainless Steel X20Cr13 1.4006
9	Disc spring	Stainless steel
10	Washer	Carbon Steel + Zinc Galvanized
11	Settle ring	Carbon Steel + Zinc Galvanized
12	Opening limiter	Carbon Steel + Zinc Galvanized
13	Settle ring	Carbon Steel
14	Lever	Carbon Steel + Zinc Galvanized
15	Tap screw	Carbon Steel
16	Washer	PTFE

Pressure-Temperature Ratings



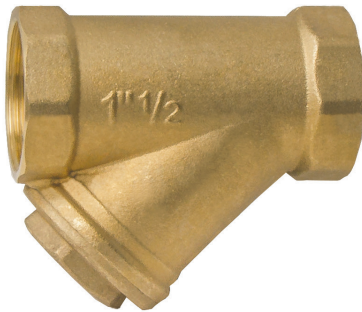


FIVC Strainer

Y-Strainer
Basket Strainer

FIVC Y-Strainer

Brass – PN 16 – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: Brass CW617N
- Cap: Brass CW617N
- Screen: Stainless Steel
- Gasket: EPDM
- USP: Compact settlement
Environment-friendly

Field of applications

- Max. temperature: 110 °C
- Max. working pressure: 16 bar

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters.

The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

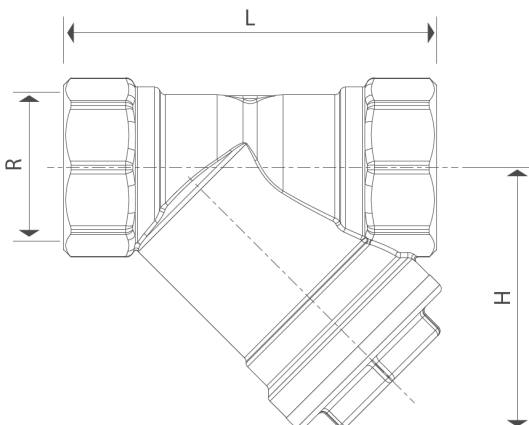
The valve can be used for non-hazardous fluids (group 2, according to the PED Directive), which are safe for use with copper alloys.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive No 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	Kv (m ³ /h)	Kg
FYS015B1635	15	52	34	4.47	0.148
FYS020B1635	20	63	42	7.85	0.249
FYS025B1635	25	75	50	11.1	0.315
FYS032B1635	32	91	63	17.0	0.576
FYS040B1635	40	102	70	24.5	1.104
FYS050B1635	50	118	87	36.0	1.354

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass CW617N UNI EN 12165
2	Cap	Brass CW617N UNI EN 12165
3	Screen	Stainless Steel AISI 304
4	Gasket	EPDM
5	Finishing	Sand Blast

Screen Information

ST*	Mesh*	T*	Opening Area	A*	øF*		Y*
	Per linear inch	mm	%	mm ²	mm	Micron: μm	mm
Mesh	35	0.3	20.66	0.25	0.5	500	1.0

*ST: Screen type • Mesh: Number of holes • T: Wire thickness • A: Area of hole
• øF: Inscribed hole diameter • Y: Opening diameter (Y-axis of screen)

FIVC Y-Strainer

Brass – PN 16 – w/Mini Ball Valve – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: Brass CW617N
- Bonnet: Brass CW617N
- Screen: Stainless Steel
- Mini ball valve: Brass CW617N
- Gasket: PTFE
- Seal ring: PTFE
- USP: Integrated ball valve
Compact settlement
Environment-friendly

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Y-Strainer is designed combined with a mini ball valve to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

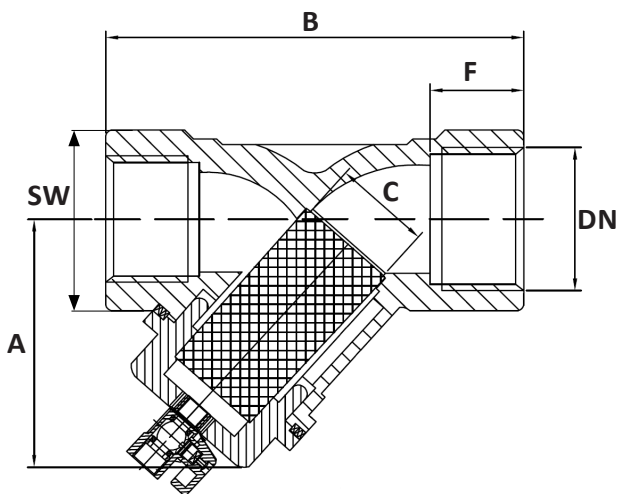
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

The valve can be used for Water, Oil, Air, and non-corrosion fluid.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	C*	F*	SW*	Kg
FYS015B1630D212	15	39	56	13	12	24.5	-
FYS020B1630D212	20	47	69	20	12	33	-
FYS025B1630D212	25	50	76	20	14	38.5	-
FYS032B1630D212	32	65	94	27	15.5	47	-
FYS040B1630D212	40	74	102	32	19	53.5	-
FYS050B1630D212	50	88	120	42	19	67	-

*Dimensions are in millimeters

Screen Information

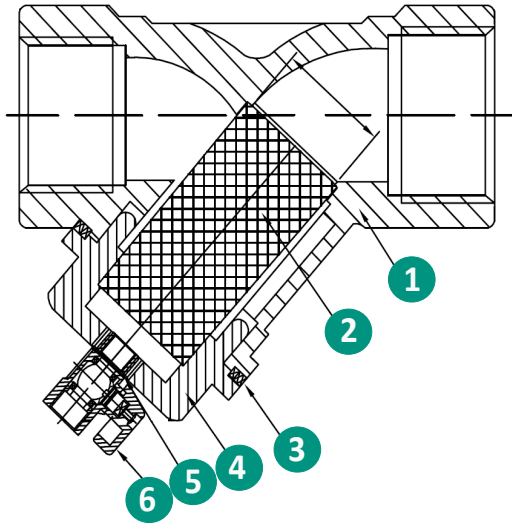
ST*	Mesh*	CSZ*		T*	Wire D*	
	Per cm ²	DN	X-Y mm		X*	Y*
Mesh	30	15	19x29.5	0.2	0.5 (DN 15-25)	1 (DN 15-25)
		20	26x39			
		25	26x39		1.0 (DN 32-50)	2.0 (DN 32-50)
		32	33x48			
		40	37.5x58			
		50	48x67.5			

X*ST: Screen type • Mesh: Number of holes • CSZ: Complete screen size • T: Wire thickness • WD: Wire diameter acc. to X-axis and Y-axis of the screen.

FIVC Y-Strainer

Brass – PN 16 – w/Mini Ball Valve – Screwed Cap – ISO 228

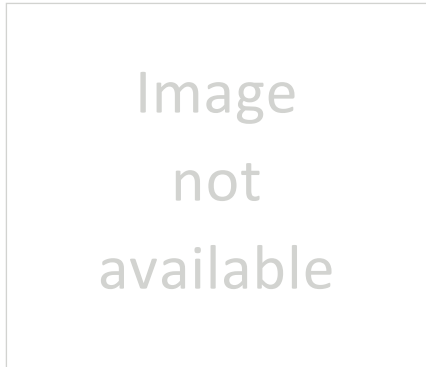
Product Specification



N°	Name	Material
1	Body	Brass CW617N
2	Screen	Stainless Steel SS 304
3	Seal ring	PTFE
4	Bonnet	Brass CW617N
5	Gasket	PTFE
6	Ball valve	Brass CW617N

FIVC Y-Strainer

Brass – PN 20 – w/Mini Ball Valve – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: Brass CW617N
- Bonnet: Brass CW617N
- Screen: Stainless Steel
- Mini ball valve: Brass CW617N
- Gasket: PTFE
- Seal ring: PTFE
- USP: Integrated ball valve
Compact settlement
Environment-friendly

Field of applications

- Temperature range: -10 to 120 °C
 - Max. working pressure: 20 bar
- Hot and cold water plants
 - Industrial Technologies
 - Heat and refrigerating
 - Engineering and air-conditioning

Description

FIVC Y-Strainer is designed combined with a mini ball valve to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

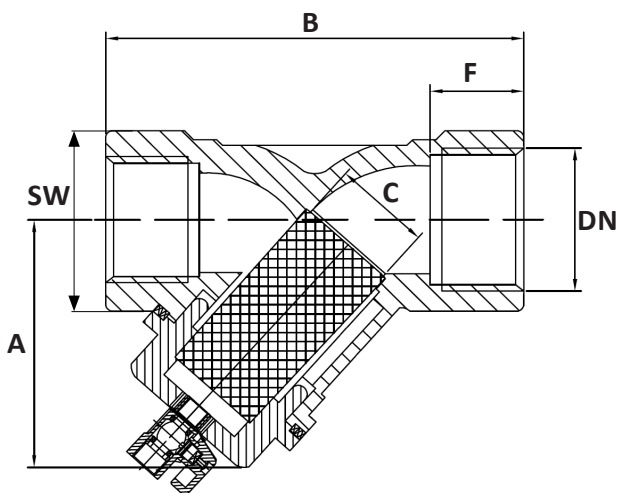
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

The valve can be used for Water, Oil, Air, and non-corrosion fluid.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive No 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	C*	F*	SW*	Kg
FYS015B2030D212	15	39	56	13	12	24.5	-
FYS020B2030D212	20	47	69	20	12	33	-
FYS025B2030D212	25	50	76	20	14	38.5	-
FYS032B2030D212	32	65	94	27	15.5	47	-
FYS040B2030D212	40	74	102	32	19	53.5	-
FYS050B2030D212	50	88	120	42	19	67	-

*Dimensions are in millimeters

Screen Information

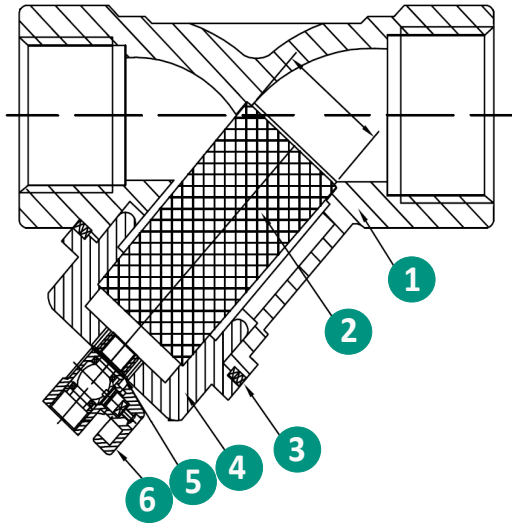
ST*	Mesh*	CSZ*		T*	Wire D*	
	Per cm ²	DN	X-Y mm		X*	Y*
Mesh	30	15	19x29.5	0.2	0.5 (DN 15-25)	1 (DN 15-25)
		20	26x39			
		25	26x39			
		32	33x48			
		40	37.5x58			
50	48x67.5	1.0 (DN 32-50)	2.0 (DN 32-50)			

X*ST: Screen type • Mesh: Number of holes • CSZ: Complete screen size
• T: Wire thickness • WD: Wire diameter acc. to X-axis and Y-axis of the screen.

FIVC Y-Strainer

Brass – PN 20 – w/Mini Ball Valve – Screwed Cap – ISO 228

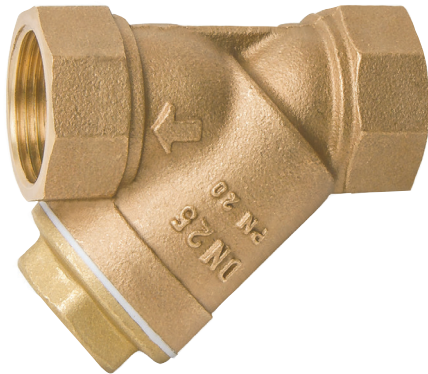
Product Specification



N°	Name	Material
1	Body	Brass CW617N
2	Screen	Stainless Steel SS 304
3	Seal ring	PTFE
4	Bonnet	Brass CW617N
5	Gasket	PTFE
6	Ball valve	Brass CW617N

FIVC Y-Strainer

Brass – PN 20 – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: DN 15-25: Brass CW617N
DN 32-50: Brass Delta C
- Cap: Brass CW617N
- Screen: Stainless Steel
- Gasket: PTFE
- Finishing: Sandblast
- USP: Compact settlement
Environment-friendly

Field of applications

- Max. temperature: 80 °C
- Max. working pressure: 20 bar

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

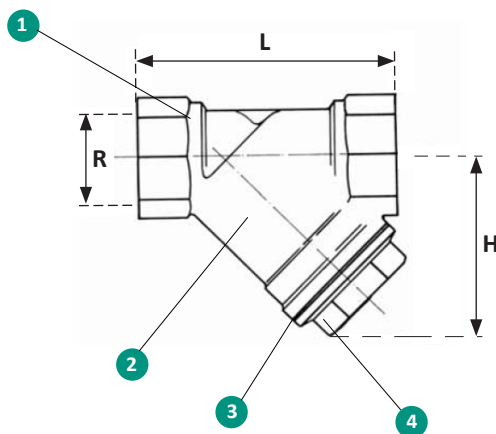
FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh. The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line. The valve can be used for Water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*
FYS015B2045	15	58	40
FYS020B2045	20	70	50
FYS025B2045	25	87	60
FYS032B2040	32	96	68
FYS040B2040	40	106	75
FYS050B2040	50	126	90

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	DN 15-25: Brass CW617N UNI EN 12165 DN 32-50: Brass Delta C EN 1982 CB 745S
2	Screen	Stainless Steel SS AISI 304L Rhomboidal flattened
3	Gasket	PTFE
4	Cap	Brass CW617N UNI EN 12165

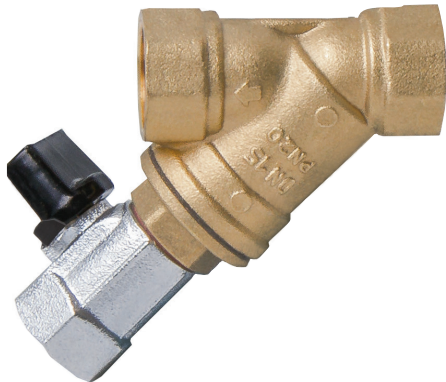
Screen Information

ST*	Mesh*		W*	T*	øF*	Opening	
	Per linear	Per cm ²				X	Y
Mesh	45 (DN 15-25)	150 (DN 15-25)	0.35	0.25	400	1.5	0.90
	40 (DN 32-50)	80 (DN 32-50)				2.0	1.20

*ST: Screen type • Mesh: Number of holes • W: Wire width • T: Wire thickness • øF: Inscribed hole diameter • X and Y: Opening diameter acc. to X-axis and Y-axis of the screen

FIVC Y-Strainer

Brass – PN 20 – w/Mini Ball Valve – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: DN 15-25: Brass CW617N
DN 32-50: Brass Delta C
- Cap: Brass CW617N
- Screen: Stainless Steel
- Mini ball valve: Brass CW617N
- Stem: Brass CW614N
- Handle: Aluminium
- USP: Compact settlement
Environment-friendly

Field of applications

- Temperature range: -10 to 80 °C
- Max. working pressure: 20 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Y-Strainer is designed combined with a mini ball valve to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

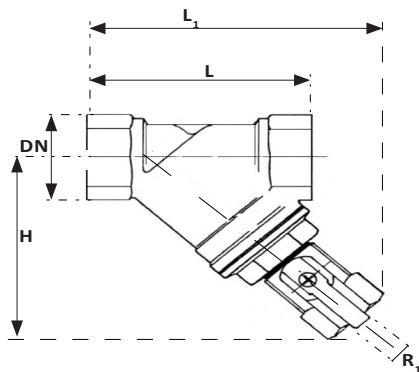
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line. The valve can be used for Water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	R1*	L*	L1*	H*	Kv (m³/h)	Kg
FYS015B2045D	15	1/4	59	84	62	4.6	-
FYS020B2045D	20	1/4	70	95	68	7.3	0.249
FYS025B2045D	25	1/4	87	105	75	12.5	0.249
FYS032B2040D	32	1/4	96	112	82	17	-
FYS040B2040D	40	1/4	106	120	90	24.5	-
FYS050B2040D	50	3/8	126	138	113	36	-

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	DN 15-25: Brass CW617N DN 32-50: Brass Delta C EN 1982 CB
2	Ball	Brass CW617N UNI EN 12165. Nickel and Chromium plated. Ground by diamond-tipped tool
3	Cap	Brass CW617N UNI EN 12165
4	Body gasket	PTFE
5	Stem	Brass CW614N UNI EN 12164
6	Seat	Virgin PTFE
7	Stem packing	NBR
8	O-Ring	NBR
9	Screen	Stainless Steel AISI 304L. Romboidal flattened sheet
10	Handle	Aluminium with black plastic coating
11	Finishing	Sandblast

Screen Information

ST*	Mesh*		D*	T*	øF*		Wire space	
	Per linear inch	Per cm²			mm	Micron µm	X*	Y*
Mesh	45 (DN 15-25)	150	0.35	0.25	0.4	400	1.5	0.9
	40 (DN 32-50)	80			0.5	500	2.0	1.2

*ST: Screen type • Mesh: Number of holes • D: Wire diameter • T: Wire thickness • øF: Inscribed hole diameter • X and Y: Opening diameter acc. to X-axis and Y-axis of the screen.

FIVC Y-Strainer

Bronze – PN 20 – Screwed Cap – WRAS – ISO 228



FYS series

Description

FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line. The valve can be used for Water, Oil, and Gas respectively.

Technical data

Main features and materials

- Body: Bronze CC491K
- Cap: Bronze CC491K
- Screen: Stainless Steel
- Gasket: PTFE
- USP: WRAS approval
Compact settlement
Environment-friendly

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 20 bar

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Alternative Product Versions

Other Standards

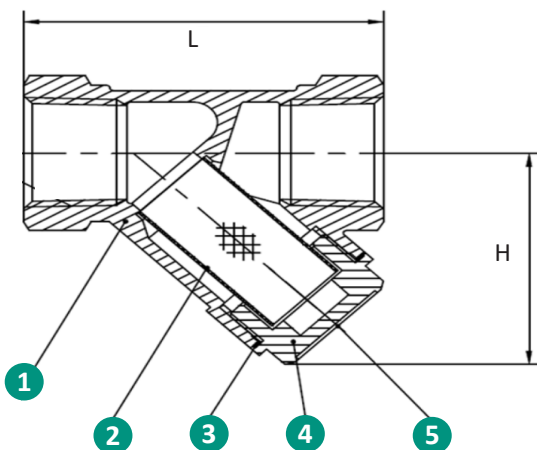
ANSI • ASME B1.20.1 • NPT
ISO 7/1 Rc/Rp threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).



Dimensions



Product Information

Product code	Size (DN)	L*	H*	Kg
FYS015020540121	15	58	40	0.185
FYS020020540121	20	70	51	0.298
FYS025020540121	25	88	57.6	0.426
FYS032020260121	32	96	58.5	0.72
FYS040020260121	40	107	74	0.98
FYS050020260121	50	126	95	1.5

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Screen	Stainless Steel SS 304
3	Gasket	PTFE
4	Cap	Bronze CC491K BS EN 1982
5	ID plate	Aluminium

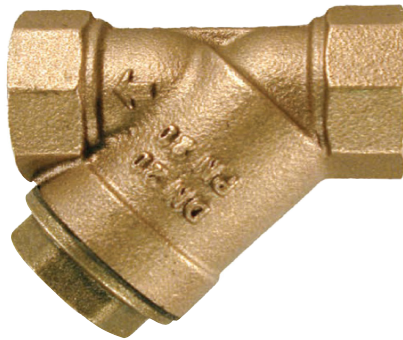
Screen Information

ST*	Mesh*	T*	øF*	Opening Area
	Per cm ²	mm	mm ²	%
Mesh	54 (DN 15-25)	0.3	1.13	61
	26 (DN 32-50)	0.4	2.77	72

*ST: Screen type • Mesh: Number of holes • T: Wire thickness • øF: Inscribed hole diameter

FIVC Y-Strainer

Bronze – PN 20 – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: Bronze SN 5
- Cap: Brass CW617N
- Screen: Stainless Steel
- Gasket: PTFE
- USP: Compact settlement
Environment-friendly

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 20 bar

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

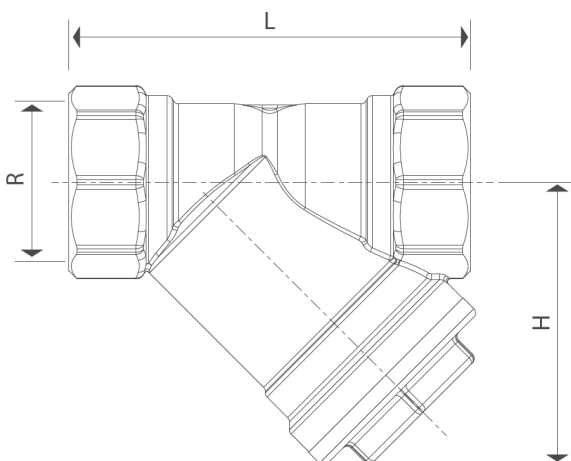
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Media includes non-hazardous fluids (group 2, according to the PED Directive), which are safe for use with copper alloys.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014, exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	Kv (m³/h)
FYS01502045	15	58	40	4.6
FYS02002045	20	70	50	7.3
FYS02502045	25	87	60	12.5
FYS03202040	32	96	68	17
FYS04002040	40	106	75	24.5
FYS05002040	50	126	90	36

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze SN 5 UNI EN 1982 DIN 50930/6
2	Cap	Brass CW617N UNI EN 12165
3	Mesh screen	Stainless Steel AISI 304
4	Gasket	PTFE
5	Finishing	Sand Blast

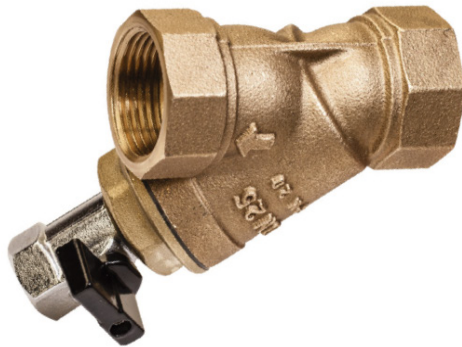
Screen Information

ST*	Mesh*		D*	T*	øF*		Wire space	
	Per linear inch	cm²			mm	Micron: μm	x*	y*
Mesh	45 (DN 8-25)	150	0.35	0.25	0.4	400	1.5	0.9
	40 (DN 32-50)	80	0.35	0.25	0.5	500	2.0	1.2

*ST: Screen type • Mesh: Number of holes • D: Wire diameter • T: Wire thickness • øF: Inscribed hole diameter • x AND y: Opening diameter

FIVC Y-Strainer

Bronze – PN 20 – w/Mini Ball Valve – Screwed Cap – ISO 228



FYS series

Technical data

Main features and materials

- Body: Bronze SN 5
- Cap: Brass CW617N
- Screen: Stainless Steel
- Mini ball valve: Brass CW617N
- Stem: Brass CW614N
- Gasket: PTFE
- Handle: Aluminium
- USP: Compact settlement
Environment-friendly

Field of applications

- Temperature range: -10 to 80 °C
- Max. working pressure: 20 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Y-Strainer is designed combined with a mini ball valve to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

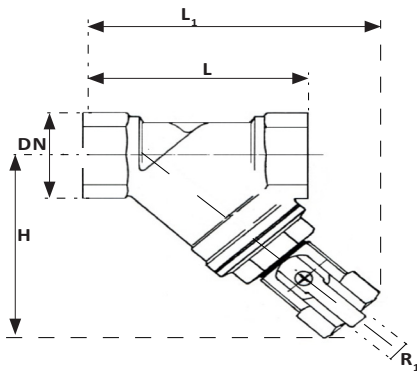
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line. The valve can be used for Water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	R1*	L*	L1*	H*	Kv (m³/h)
FYS01502045D	15	1/4	59	84	62	4.6
FYS02002045D	20	1/4	70	95	68	7.3
FYS02502045D	25	1/4	87	105	75	12.5
FYS03202040D	32	1/4	96	112	82	17
FYS04002040D	40	1/4	106	120	90	24.5
FYS05002040D	50	3/8	126	138	113	36

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze SN 5 UNI EN 1982 DIN 50930/6
2	Ball	Nickel and Chromium plated. Ground by diamond-tipped tool
3	Cap	Brass CW617N UNI EN 12165
4	Body gasket	PTFE
5	Stem	Brass CW614N UNI EN 12164
6	Seat	Virgin PTFE
7	Stem packing	NBR
8	O-Ring	NBR
9	Screen	Stainless Steel AISI 304. Romboidal flattened sheet
10	Handle	Aluminium with black plastic coating
11	Finishing	Sandblast

Screen Information

ST*	Mesh*		D*	T*	øF*		Wire space	
	Per linear inch	Per cm²			mm	Micron µm	x*	y*
Mesh	45 (DN 15-25)	150	0.35	0.25	0.4	400	1.5	0.9
	40 (DN 32-50)	80			0.5	500	2.0	1.2

*ST: Screen type • Mesh: Number of holes • D: Wire diameter • T: Wire thickness • øF: Inscribed hole diameter • x and y: Opening diameter acc. to X-axis and Y-axis of the screen

FIVC Y-Strainer

Bronze – PN 32 – Screwed Ends – ISO 228



FYS series

Description

FIVC Y-strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh. The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

The valve has a Working Steam Pressure of 200 Psi and works for Water, Oil, and Gas of 400 Psi.

Technical data

Main features and materials

- Body: Bronze CC49K
- Cap: Bronze CC491K
- Screen: Stainless Steel
- Gasket: Red Fiber

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: 32 bar (14 bar at 198 °C)
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Alternative Product Versions

PN 32, Screen in Stainless Steel with Plug

WOG: 400 Psi • WSP: 200 Psi

Item No: FCH015O16CS13... FCH100O16CS13

Other Standards

ANSI • ASME B1.20.1 • NPT

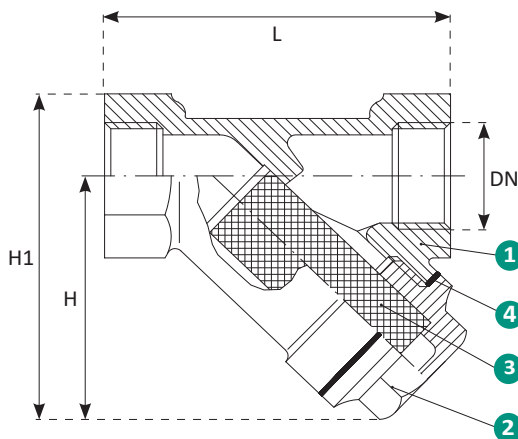
ISO 7/1 Rc/Rp threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	H1*	Kg
FYS015O32CS01	15	72	46	63	0.4
FYS020O32CS01	20	80	59	80	0.7
FYS025O32CS01	25	91	66	90	0.8
FYS032O32CS01	32	108	75	104	1.1
FYS040O32CS01	40	123	88	121	1.7
FYS050O32CS01	50	148	107	148	2.6

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K UNI EN 1982
2	Cap	Bronze CC491K UNI EN 1982
3	Mesh Screen	Stainless Steel AISI 304
4	Gasket	Red Fiber

Screen Information

ST*	Mesh*		øF*	
	Per linear inch	N° holes cm ²	mm	Micron: μm
Mesh	45 (DN 15-25)	262 (DN 15-25)	0.4 (DN 15-25)	400
	36 (DN32-50)	168 (DN 32-50)	0.47 (DN 32-50)	470

*ST: Screen type • Mesh: Number of holes • øF: Inscribed hole diameter

FIVC Y-Strainer

Grey Cast Iron – PN 16 – EN 1092-2



FYS series

Technical data

Main features and materials

- Body: DN 65-300: Grey Cast Iron
DN 350-600: Ductile Iron
- Cover: DN 65-300: Grey Cast Iron
DN 350-600: Ductile Iron
- Screen: Stainless Steel
- Gasket: DN 65-300: Graphite
DN 350-600: Graphite+Steel
- USP: Compact settlement
Environment-friendly
Cleaning without disassembling
- Dimensions: Face-to-Face acc. to ISO 5752
DIN 3202 F1
- Closing tightness: BS EN 12266-1

Field of applications

- Max. temperature: DN 65-300: 150 °C
DN 350-600: 130 °C
- Max. working pressure: 16 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Y-strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

The valve can be used for Water, Oil, and Gas respectively.

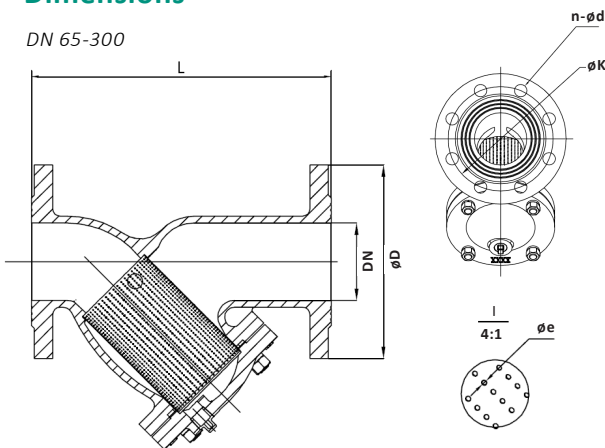
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Declaration

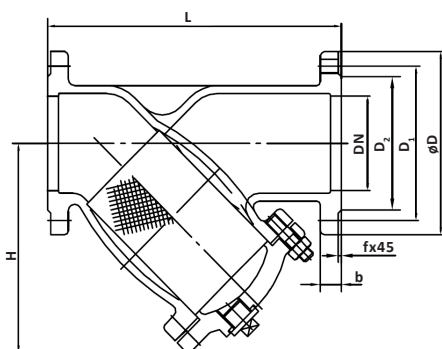
The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions

DN 65-300



DN 350-600



Product Information

Product code	Size (DN)	L*	øD*	D1*	D2*	b*	f*	H*	øK*	n-ød*	øe*	Kg
FYS065C16210	65	290	185	-	-	-	-	-	145	4-19	1.5	15.5
FYS080C16210	80	310	200	-	-	-	-	-	160	8-19	1.5	17.8
FYS100C16210	100	350	220	-	-	-	-	-	180	8-19	1.5	24.4
FYS125C16210	125	400	250	-	-	-	-	-	210	8-19	1.5	37
FYS150C16210	150	480	285	-	-	-	-	-	240	8-23	1.5	47
FYS200C16210	200	600	340	-	-	-	-	-	295	12-23	3	78
FYS250C16210	250	730	405	-	-	-	-	-	355	12-28	3	126
FYS300C16210	300	850	460	-	-	-	-	-	410	12-28	3	176
FYS350N16211	350	980	520	470	438	36	4	689	-	16-26	-	421
FYS400N16211	400	1100	580	525	490	38	4	789	-	16-30	-	602
FYS450N16211	450	1200	640	585	550	40	4	835	-	20-30	-	732
FYS500N16211	500	1250	715	650	610	42	4	922	-	20-33	-	930
FYS600N16211	600	1450	840	770	725	48	5	1020	-	20-36	-	1030

*Dimensions are in millimeters

Screen Information

ST*	Mesh*	T*	øF*	Opening area*
	per cm ²	mm	mm	%
Perforated	19 (DN 65-150)	0.25 (DN 65-100)	1.5 (DN 65-150)	34.1 (DN 65-150)
	5 (DN 200-600)	1 (DN 125-300)	3 (DN 200-350)	33.6 (DN 200-350)
		1.2 (DN 350-600)	3.2 (DN 400-600)	38.6 (DN 400-600)

*ST: Screen type • Mesh: number of holes (Acc. +/- 0.5-1)

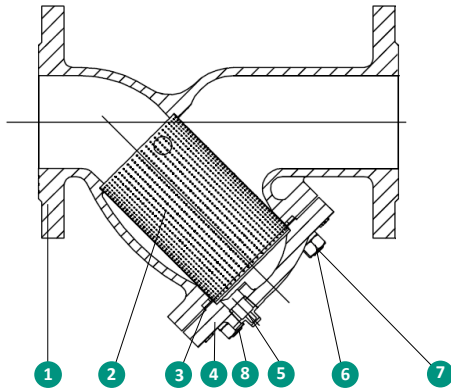
• T: Thickness of sheet • øF: Inscribed hole diameter

FIVC Y-Strainer

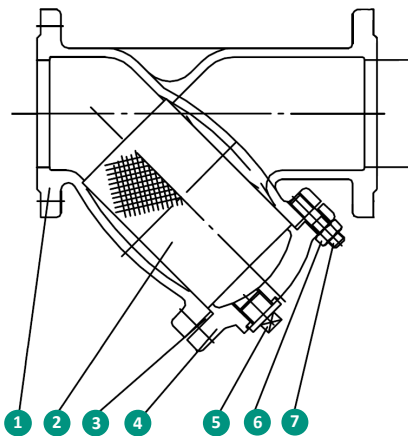
Grey Cast Iron – PN 16 – EN 1092-2

Product Specification

DN 65-300



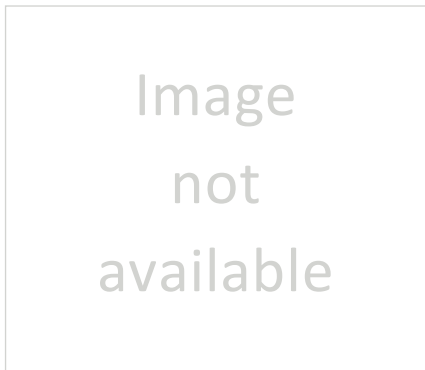
DN 350-600



N°	Name	Material
1	Body	DN 65-300: Grey Cast Iron EN JL 1040 DN 350-600: Ductile Iron EN JS 1050
2	Screen	Stainless Steel SS 304
3	Gasket	DN 65-300: Graphite DN 350-600: Graphite + Steel
4	Cover	DN 65-300: Grey Cast Iron EN JL 1040 DN 350-600: Ductile Iron EN JS 1050
5	Plug	Malleable Iron
6	Nut	DN 65-300: Stainless Steel SS 304 DN 350-600: Carbon Steel EN-10025-2 S235JR
7	Stud	DN 350-600: Carbon Steel EN-10025-2 S235JR
8	Washer	DN 65-300: Stainless Steel SS 304

FIVC Y-Strainer

Grey Cast Iron – PN 16 – w/Plugs – EN 1092-2



FYS series

Description

FIVC Y-Strainer with integrated plugs is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Technical data

Main features and materials

- Body: Grey Cast Iron
- Cover: Grey Cast Iron
- Screen: Stainless Steel
- Gasket: Graphite
- Plugs: Malleable Iron
Plug 1 and 2: 1/4" NPT
Plug 3: 3/4" NPT
- USP: 3 integrated plugs.
Environment-friendly
Cleaning without disassembling
Face-to-Face acc. to DIN 3202 F1
- Dimensions: BS EN 12266-1
- Closing tightness: BS EN 12266-1

Field of applications

- Max. temperature: -10 to 150 °C
- Max. working pressure: 16 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

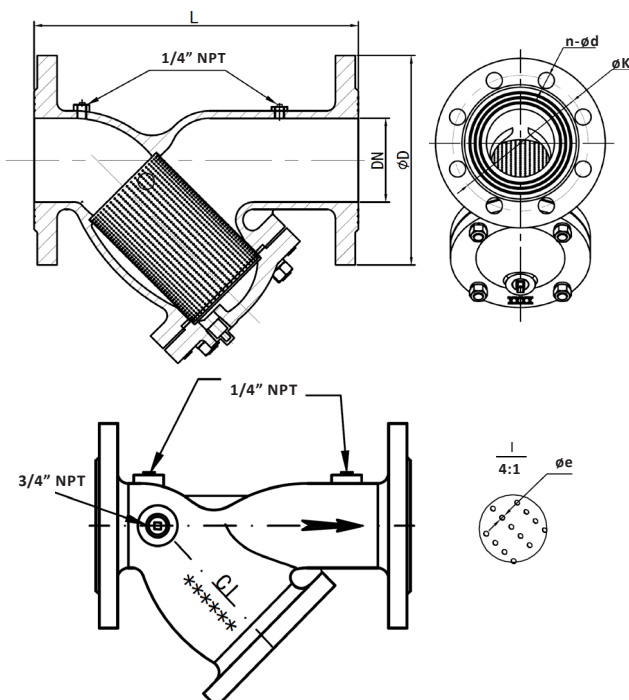
Along with its cleaning functionality, this unique strainer does through its three integrated NPT plugs determine the flow rate and the pressure loss of the running fluid in the strainer.

The valve can be used for Water, Steam, and Air under 16 bar respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	L*	D*	K*	n-ød*	Kg
FYS065C16210P	65	290	185	145	4-19	13.40
FYS080C16210P	80	310	200	160	8-19	16.70
FYS100C16210P	100	350	220	180	8-19	20.90
FYS125C16210P	125	400	250	210	8-19	39.66
FYS150C16210P	150	480	285	240	8-23	54.80
FYS200C16210P	200	600	340	295	12-23	93.50
FYS250C16210P	250	730	405	355	12-28	97.50
FYS300C16210P	300	850	460	410	12-28	187.50

*Dimensions are in millimeters

Screen Information

ST*	Mesh*	T*	øF*	Opening area*
	per cm ²	mm	mm	%
Perforated	19 (DN 65-150)	0.25 (DN 65-100)	1.5 (DN 65-150)	34.1 (DN 65-150)
	5 (DN 200-300)	1 (DN 125-300)	3 (DN 200-300)	33.6 (DN 200-300)

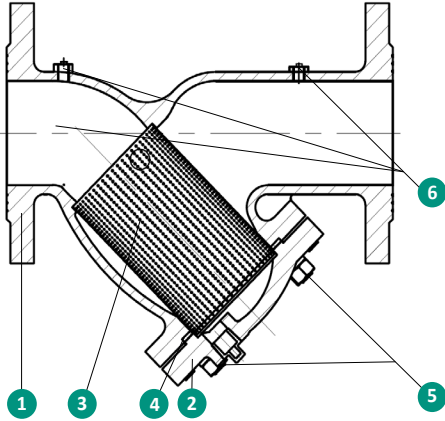
*ST: Screen type • Mesh: number of holes (Acc. +/- 0.5-1)

• T: Thickness of sheet • øF: Inscribed hole diameter

FIVC Y-Strainer

Grey Cast Iron – PN 16 – w/Plugs – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Cover	Grey Cast Iron EN-GJL-250 JL 1040
3	Screen	Stainless Steel SS 304
4	Gasket	Graphite
5	Screw	Stainless Steel
6	Plug	Malleable Iron

FIVC Y-Strainer

Grey Cast Iron – PN 16 – EN 1092-2



FYS series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Cover: Grey Cast Iron
- Mesh screen: Stainless Steel
DN 65-80: 1.25-28 mesh/cm²
DN 100-200: 1.6-15 mesh/cm²
- Gasket: Graphite
- USP: Compact settlement
Environment-friendly
Cleaning without disassembling
- Dimensions: Face-to-Face acc. to EN 558 (series 1)
- Closing tightness: EN 12266-1

Field of applications

- Temperature range: -10 to 300 °C
- Max. working pressure: 16 bar

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

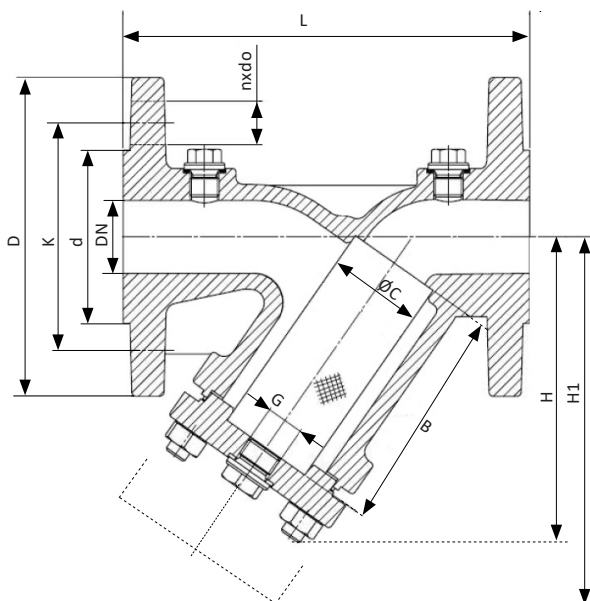
FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	L*	D*	d*	K*	nxdo*	H*	H1*	G*	C*	B*	Kg
FYS065C16B52	65	290	185	118	145	4x19	180	285	1	78.5	134	14.6
FYS080C16B52	80	310	200	132	160	8x19	215	330	1	89.5	149	18.6
FYS100C16B46	100	350	220	156	180	8x19	240	395	1 ½	109.5	169	27
FYS125C16B46	125	400	250	184	210	8x19	280	455	1 ½	137.5	199	38.5
FYS150C16B46	150	480	285	211	240	8x23	330	525	1 ½	160	224	54.5
FYS200C16B46	200	600	340	266	295	12x23	405	650	1 ½	210	284	110
FYS250C16B46	250	730	405	319	355	12x28	540	870	1 ½	258	434	165
FYS300C16B46	300	850	480	370	410	12x28	680	1110	1 ½	308	555	285
FYS350C16B46	350	980	620	429	470	16x28	755	1250	1 ½	365	640	373
FYS400C16B46	400	1100	580	480	525	16x31	835	1370	1 ½	415	695	540

*Dimensions are in millimeters

Screen Information

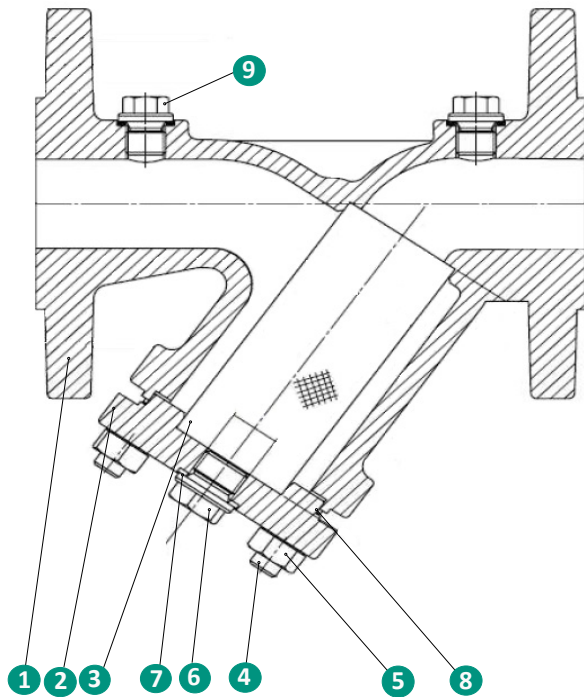
ST*	Mesh*	øF*	Opening area*
	per cm ²	mm	%
Mesh	28 (DN 65-80)	1.25	49
	15 (DN 100-400)	1.6	43

*ST: Screen type • Mesh: number of holes (Acc. +/- 0.5-1) • øF: Inscribed hole diameter

FIVC Y-Strainer

Grey Cast Iron – PN 16 – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Cover	Grey Cast Iron EN-GJL-250 JL 1040
3	Mesh screen	Stainless Steel X5CrNi18-10
3.1	Supporting basket	Stainless Steel X5CrNi18-10
4	Studs	8.8 - A2A
5	Hexagon nut	8 - A2A
6	Emptying screw	C35E
7	Plug gasket	A4 1.4571
8	Cover gasket	Graphite CrNiSt
9	Plug gasket	C35E

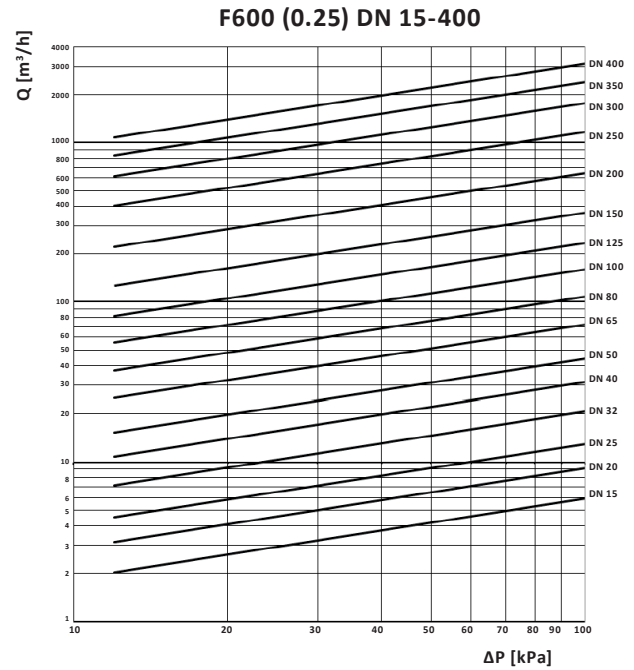
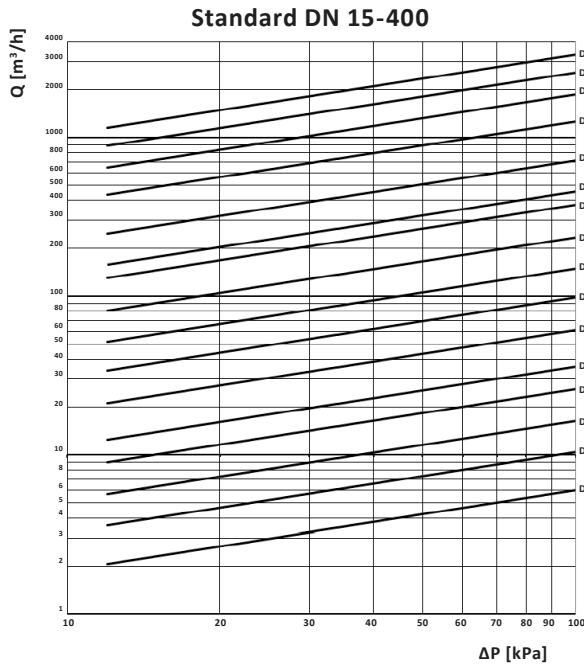
Flow Coefficient Kv

Size (DN)	65	80	100	125	150	200	250	300	350	400
Screens	Kv [m3/h]									
Standard	101.5	147.4	209.6	326.2	403.0	707.0	1 234.4	1 916.2	2 621.4	3 460.3
F100 (0.63)	95.1	137.1	206.4	268.8	401.4	706.7	1 229.4	1 902.4	2 611.0	3 438.4
F200 (0.50)	92.7	133.4	202.7	314.3	462.3	811.0	1 375.1	2 133.1	2 885.4	3 747.0
F300 (0.40)	86.0	121.2	183.5	284.3	420.3	738.3	1 274.3	2 021.6	2 698.8	3 545.0
F400 (0.32)	82.9	115.9	173.7	268.8	401.4	706.7	1 229.4	1 902.4	2 611.0	3 438.4
F600 (0.25)	82.6	115.9	173.1	266.8	397.9	701.2	1 225.0	1 892.1	2 606.8	3 433.9

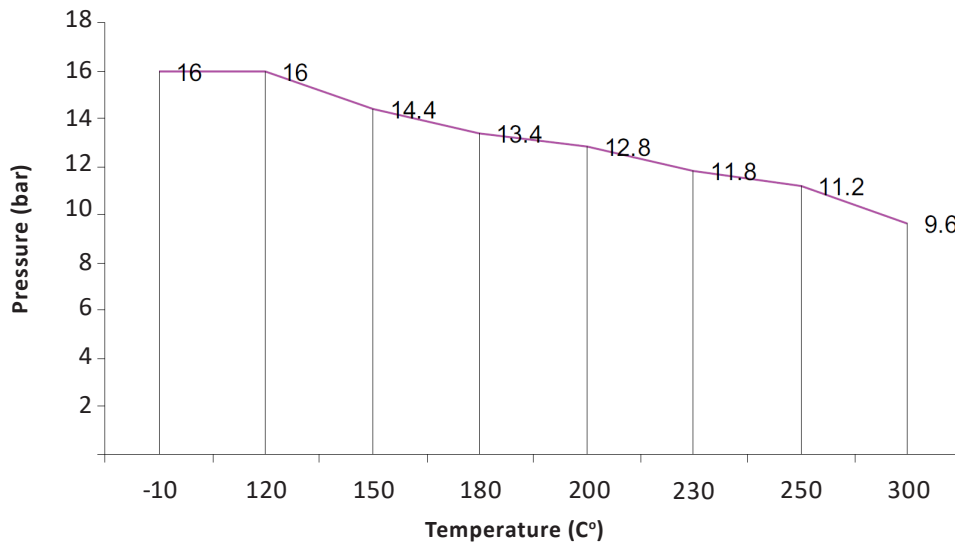
FIVC Y-Strainer

Grey Cast Iron – PN 16 – EN 1092-2

Hydraulic Characteristics

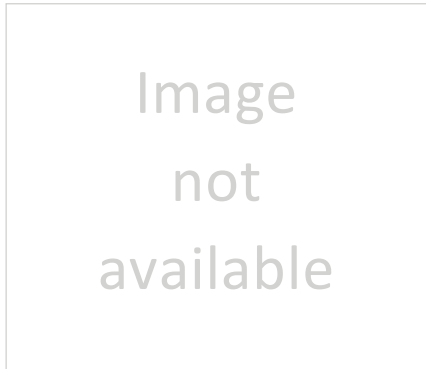


Pressure-Temperature Ratings



FIVC Y-Strainer

Ductile Iron – PN 16 – WRAS – EN 1092-2



FYS series

Technical data

Main features and materials

- Body: Ductile Iron
- Cover: Ductile Iron
- Screen: Stainless Steel
- Sealing ring: EPDM
- USP: WRAS approval
Compact settlement
Environment-friendly
Cleaning without disassembling
- Dimensions: Face-to-Face acc. to EN 558 (series 1)
- Closing tightness: EN 12266-1

Field of applications

- Temperature range: -10 to 85 °C
- Max. working pressure: 16 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

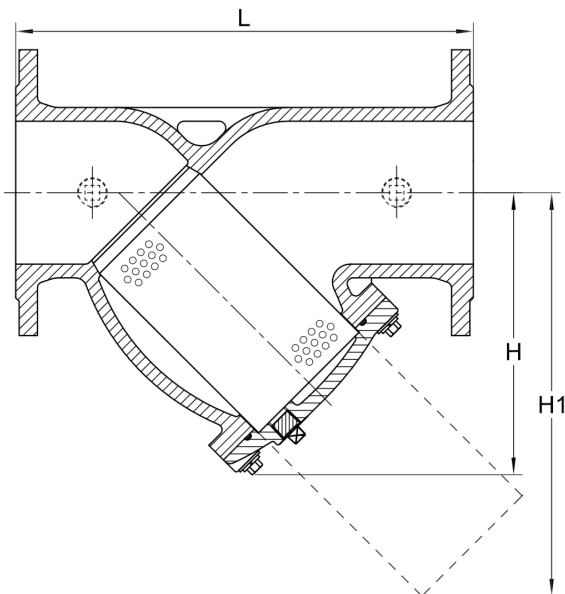
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Dimensions



Product Information

Product code	Size (DN)	L*	H*	H1*	Kg
FYS065N16231	65	290	137	205	-
FYS080N16231	80	310	152	238	-
FYS100N16231	100	350	205	318	-
FYS125N16231	125	400	244	358	-
FYS150N16231	150	480	269	380	-
FYS200N16231	200	600	341	508	-
FYS250N16231	250	730	455	700	-
FYS300N16231	300	850	476	730	-
FYS350N16231	350	980	725	1130	-
FYS400N16231	400	1100	820	1285	-
FYS450N16231	450	1200	840	1260	-
FYS500N16231	500	1250	915	1350	-
FYS600N16231	600	1450	1100	1675	-

*Dimensions are in millimeters

Screen Information

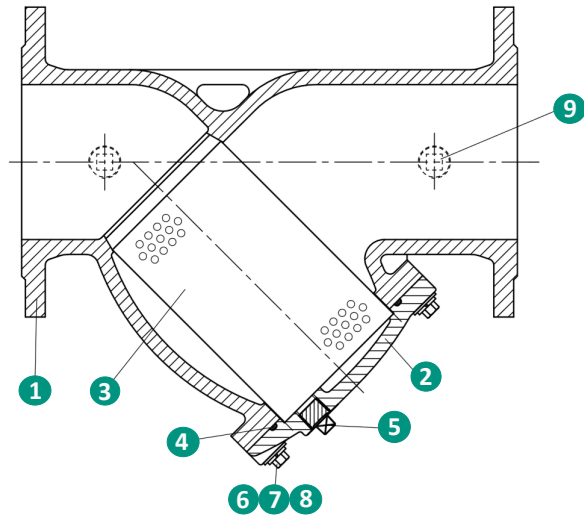
ST*	Valve size (DN)	øS*	L*	Mesh*	T*	øF*	Opening area		
		mm	mm	per inch ²	mm	mm	mm ²	%	
Perforated	65	64	119.5	104	0.8	1.5	7058.02	28	
	80	79	135.5				9878.74		
	100	99	185				16902.15		
	125	124	208				23802.37		
	150	149	207				28463.73		
	200	199	284				36219.63		
	250	249	405	26	1.2	2.5	64628.94		20
	300	299	416				79714.47		
	350	367.5	618.5				145669.86		
	400	412	702				307406.03		
	450	456	678				328603.81		
	500	506	741.5				398785.84		
600	606	940	22	1.8	3.5	605450.35	33		

*ST: Screen type • Mesh: Number of holes • T: Thickness of sheet • øF: Inscribed hole diameter • øS: Diameter of screen • L: Length of screen • SA: Screen area

FIVC Y-Strainer

Ductile Iron – PN 16 – WRAS – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400 BS EN 1563
2	Cover	Ductile Iron EN-GJS-400 BS EN 1563
3	Screen	Stainless Steel BS EN 10088 X5CrNi18-10
4	Sealing ring	WRAS EPDM
5	Drain plug	Stainless Steel BS EN 10088 X5CrNi18-10
6	Bolt	Carbon Steel Galvanized EN 10083-2 C45
7	Spring Washer	Carbon Steel Galvanized EN 10132-4 C67S
8	Washer	Carbon Steel Galvanized EN 10083-2 C45
9	Test point plug R ₁ 1/4"*	C35E

*The test point plug R₁ can be produced accc. to client's demand, however this device is not included in the standard strainer.

FIVC Y-Strainer

Ductile Iron – PN 25 – EN 1092-2



FYS series

Technical data

Main features and materials

- Body: Ductile Iron
- Cover: Ductile Iron
- Screen: Stainless Steel
- Gasket: Graphite+Steel
- USP: Compact settlement
Environment-friendly
Cleaning without disassembling
- Dimensions: Face-to-Face acc. to EN 558 (series 1)
- Closing tightness: BS EN 12266

Field of applications

- Temperature range: -10 to 200 °C
- Max. working pressure: 25 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

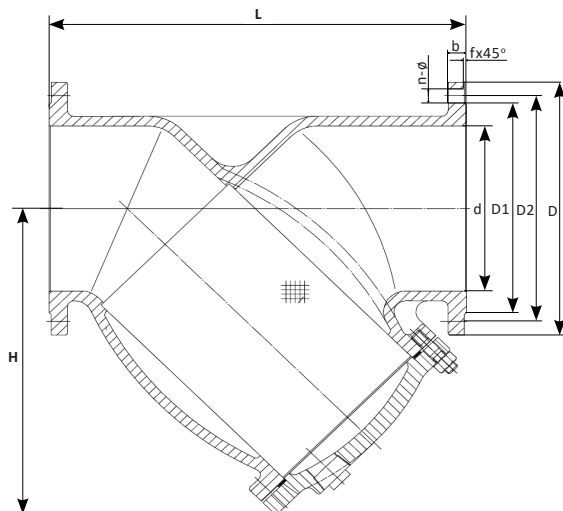
The collected debris can thereby be disposed and the filter

can be cleaned without removing the strainer from the line. The valve can be used for Oil, Water, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, Module G, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	d	D1	D2	D	b	L	f	n-ø	H	Kg
FYS065N25211	65	63.5	118	145	185	24	290	3	8-19	177	14
FYS080N25211	80	78	132	160	200	26	310	3	8-19	195	19
FYS100N25211	100	100	156	190	235	28	350	3	8-23	243	27
FYS125N25211	125	125	184	220	270	30	400	3	8-28	294	43
FYS150N25211	150	150	211	250	300	34	480	3	8-28	320	58
FYS200N25211	200	200	274	310	360	34	600	3	12-28	397	97
FYS250N25211	250	250	330	370	425	36	730	3	12-31	480	175
FYS300N25211	300	300	389	430	485	40	850	4	16-31	557	225
FYS350N25211	350	350	448	490	555	44	980	4	16-34	689	421
FYS400N25211	400	400	503	550	620	48	1100	4	16-37	789	602
FYS450N25211	450	450	548	600	670	50	1200	4	20-37	835	732
FYS500N25211	500	500	609	660	730	52	1250	4	20-37	922	930
FYS600N25211	600	600	720	770	845	56	1450	5	20-41	1020	1030

*Dimensions are in millimeters

Screen Information

ST	Mesh*	T*	øF*	Opening area*
	per cm ²	mm	mm	%
Perforated	16 (DN 65-125)	1 (DN 65-300)	1.5 (DN 65-125)	28.3 (DN 65-125)
	5 (DN 150-600)	1.2 (DN 350-600)	3 (DN 150-350)	33.6 (DN 150-350)
			3.2 (DN 400-600)	38.6 (DN 400-600)

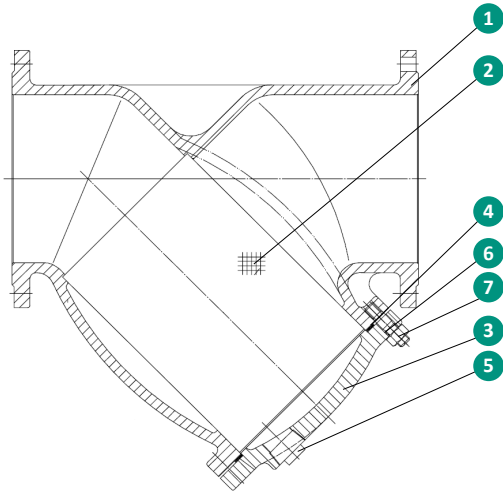
*ST: Screen type • Mesh: number of holes (Acc. +/- 0.5-1)

• T: Thickness of sheet • øF: Inscribed hole diameter

FIVC Y-Strainer

Ductile Iron – PN 25 – EN 1092-2

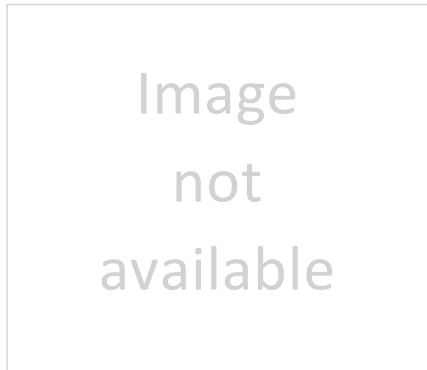
Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-GJS-450-10
2	Screen	Stainless Steel SS 304
3	Cover	Ductile Iron EN-GJS-450-10
4	Gasket	Graphite + Steel
5	Plug	Malleable Cast Iron EN-GJMB-300-06
6	Stud	ISO 630-E235B 4.8
7	Nut	ISO 630-E235B 5.0

FIVC Y-Strainer

Ductile Iron – PN 25 – WRAS – EN 1092-2



FYS series

Technical data

Main features and materials

- Body: Ductile Iron
- Cover: Ductile Iron
- Screen: Stainless Steel
- Sealing ring: EPDM
- USP: WRAS approval
Compact settlement
Environment-friendly
Cleaning without disassembling
- Dimensions: Face-to-Face acc. to EN 558 (series 1)
- Closing tightness: EN 12266-1

Field of applications

- Temperature range: -10 to 85 °C
- Max. working pressure: 25 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

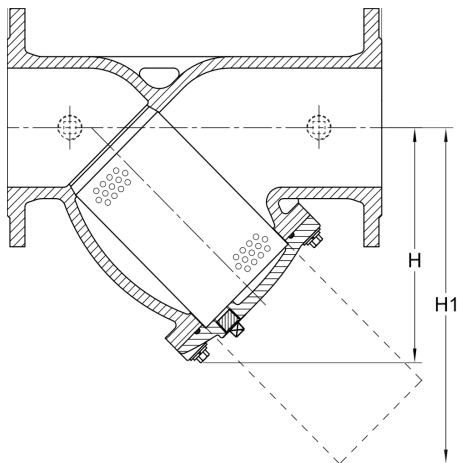
The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Dimensions



Product Information

Product code	Size (DN)	L*	H*	H1*	Kg
FYS065N25231	65	290	137	205	-
FYS080N25231	80	310	152	238	-
FYS100N25231	100	350	205	318	-
FYS125N25231	125	400	244	358	-
FYS150N25231	150	480	269	380	-
FYS200N25231	200	600	341	508	-
FYS250N25231	250	730	455	700	-
FYS300N25231	300	850	476	730	-
FYS350N25231	350	980	725	1130	-
FYS400N25231	400	1100	820	1285	-
FYS450N25231	450	1200	840	1260	-
FYS500N25231	500	1250	915	1350	-
FYS600N25231	600	1450	1100	1675	-

*Dimensions are in millimeters

Screen Information

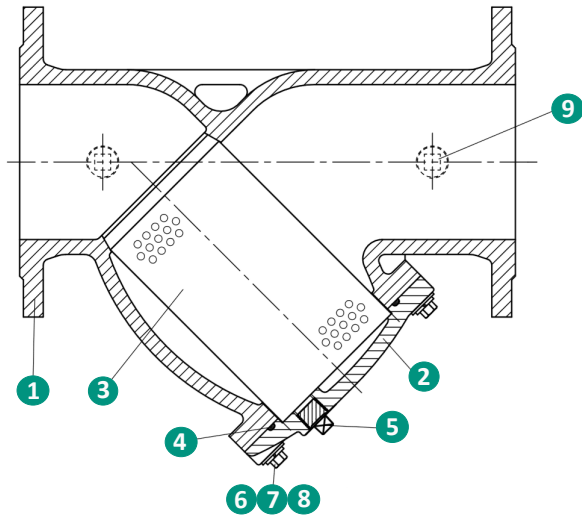
ST*	Valve size (DN)	øS*	L*	Mesh*	T*	øF*	Opening area	
		mm	mm		mm		mm	mm ²
Perforated	65	64	119.5	104	0.8	1.5	7058.02	28
	80	79	135.5				9878.74	
	100	99	185				16902.15	
	125	124	208				23802.37	
	150	149	207				28463.73	
	200	199	284	26	1.2	2.5	36219.63	20
	250	249	405				64628.94	
	300	299	416				79714.47	
	350	367.5	618.5				145669.86	
	400	412	702				307406.03	
450	456	678	22	1.8	3.5	328603.81	33	
500	506	741.5				398785.84		
600	606	940				605450.35		

*ST: Screen type • Mesh: Number of holes • T: Thickness of sheet • øF: Inscribed hole diameter • øS: Diameter of screen • L: Length of screen • SA: Screen area

FIVC Y-Strainer

Ductile Iron – PN 25 – WRAS – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400 BS EN 1563
2	Cover	Ductile Iron EN-GJS-400 BS EN 1563
3	Screen	Stainless Steel BS EN 10088 X5CrNi18-10
4	Sealing ring	WRAS EPDM
5	Drain plug	Stainless Steel BS EN 10088 X5CrNi18-10
6	Bolt	Carbon Steel Galvanized EN 10083-2 C45
7	Spring Washer	Carbon Steel Galvanized EN 10132-4 C67S
8	Washer	Carbon Steel Galvanized EN 10083-2 C45
9	Test point plug R ₁ 1/4"*	C35E

*The test point plug R₁ can be produced accc. to client's demand, however this device is not included in the standard strainer.

FIVC Y-Strainer

Ductile Iron – PN 25 – EN 1092-2



FYS series

Technical data

Main features and materials

- Body: Ductile Iron
- Cover: Ductile Iron
- Mesh screen: Stainless Steel
DN 65-80: 1.25-28 mesh/cm²
DN 100-200: 1.6-15 mesh/cm²
- Gasket: Graphite
- USP: Compact settlement
Environment-friendly
Cleaning without disassembling
- Dimensions: Face-to-Face acc. to EN 558 (series 1)
- Closing tightness: EN 12266-1

Field of applications

- Temperature range: -10 to 300 °C
- Max. working pressure: 25 bar

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

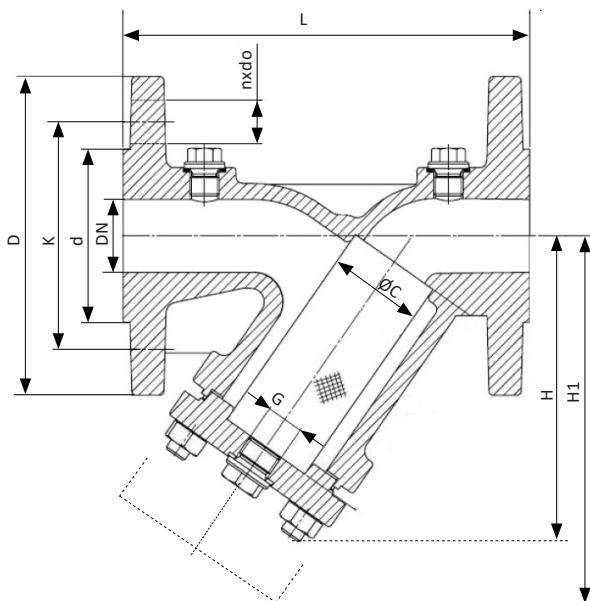
FIVC Y-Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	Od*	Id*	L*	D*	d*	K*	nxdo*
FYS065N25B52	65	102	90	290	185	118	145	8x19
FYS080N25B52	80	122	110	310	200	132	160	8x19
FYS100N25B46	100	135	120	350	235	156	190	8x23
FYS125N25B46	125	170	151	400	270	184	220	8x28
FYS150N25B46	150	195	175	480	300	211	250	8x28
FYS200N25B46	200	300	275	600	360	274	310	12x28

*Dimensions are in millimeters

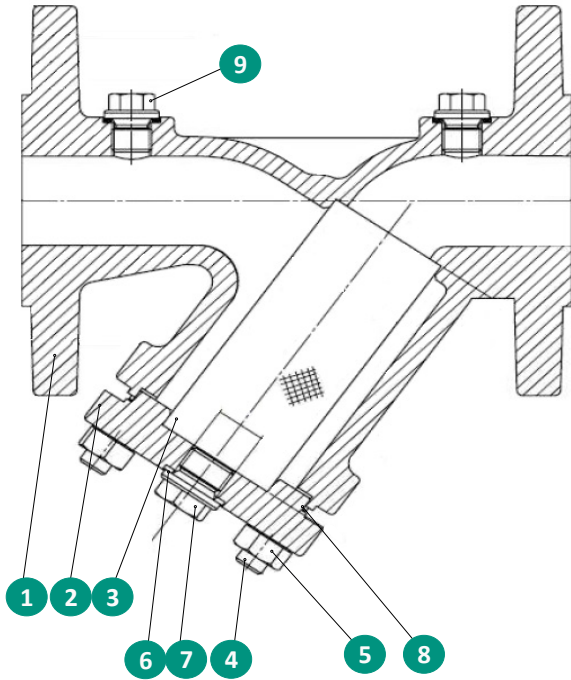
Product code	Size (DN)	H*	H1*	G*	C*	B*	Kv (m ³ /h)	Kg
FYS065N25B52	65	180	285	1	78.5	134	98	16.8
FYS080N25B52	80	215	330	1	89.5	149	149	19.5
FYS100N25B46	100	240	395	1½	109.5	169	234	29.6
FYS125N25B46	125	280	455	1½	137.5	199	376	42.5
FYS150N25B46	150	330	525	1½	160	224	454	56
FYS200N25B46	200	405	650	1½	210	284	853	110

*Dimensions are in millimeters

FIVC Y-Strainer

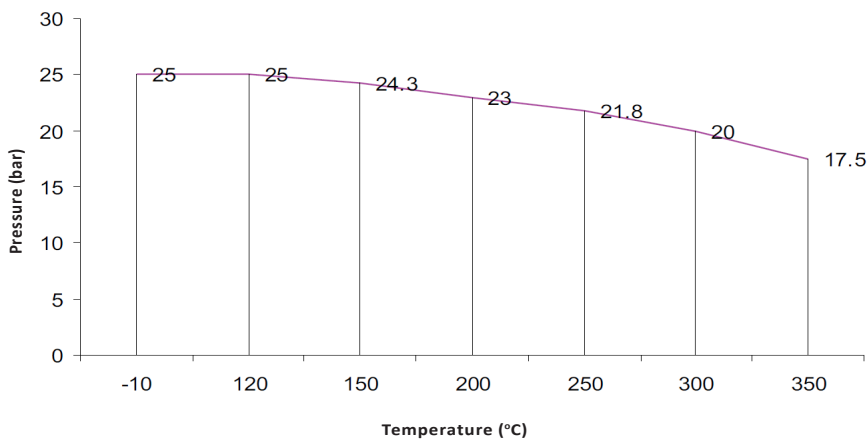
Ductile Iron – PN 25 – EN 1092-2

Product Specification



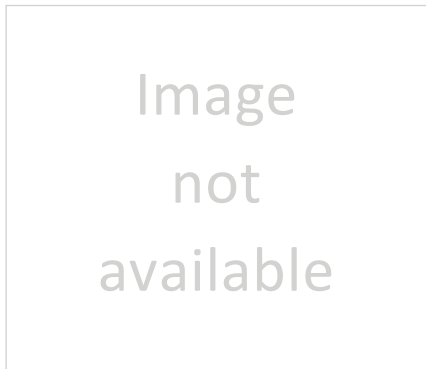
N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-18 JS 1025
2	Cover	Ductile Iron EN-GJS-400-18 JS 1025
3	Mesh screen	Stainless Steel AISI 304 X5CrNi18-10
3.1	Supporting basket	Stainless Steel X5CrNi18-10
4	Studs	A2-70
5	Hexagon nut	A2-70
6	Emptying screw	C35E
7	Plug gasket	A4 1.4571
8	Cover gasket	Graphite CrNiSt
9	Plug gasket	C35E

Pressure-Temperature Ratings



FIVC Basket Strainer

Ductile Iron – PN 16 – EN 1092-2



FBS series

Technical data

Main features and materials

- Body: Ductile Iron
- Cover: Ductile Iron
- Screen: Stainless Steel
- Gasket: EPDM
- USP: Projects plant components
Compact settlement
Environment-friendly
- Dimensions: Face-to-Face acc. to EN 1092-2
- Test: API 598

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar
- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Basket Strainer is designed to collect and prevent solid impurities from entering the pipeline that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters. The strainer holds solid particles, debris, which dimensions exceeds screen mesh.

The collected debris can thereby be disposed and the filter can be cleaned without removing the strainer from the line.

Alternative Product Versions

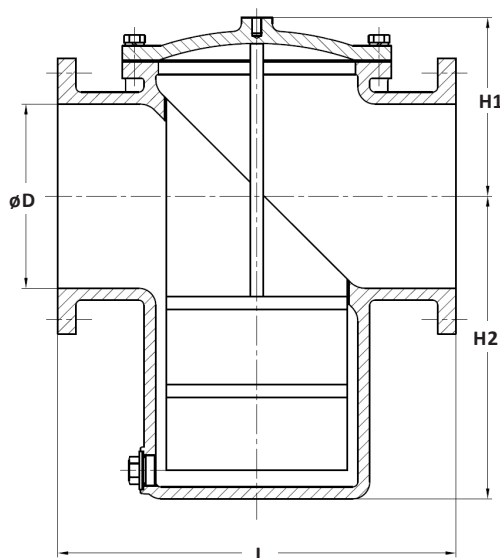
Other Standards

Gasket in NBR rubber
Temperature: -10-80°C

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

Product code	Size (DN)	øD*	L*	H1*	H2*	Kg
FBS050N16230	50	50	206	87	131	-
FBS065N16230	65	64	210	933	155	-
FBS080N16230	80	76	250	103	192	-
FBS100N16230	100	100	292	126	203	-
FBS125N16230	125	127	334	146	217	-
FBS150N16230	150	152	376	165	232	-
FBS200N16230	200	203	472	221.5	291.5	-
FBS250N16230	250	254	511	268	330	-
FBS300N16230	300	305	680	340	403	-
FBS350N16230	350	356	768.4	345	585	-
FBS400N16230	400	406	842	390	590	-
FBS450N16230	450	456	842	420	590	-
FBS500N16230	500	506	842	510	600	-
FBS600N16230	600	606	1054	515	974	-

*Dimensions are in millimeters

Screen Information

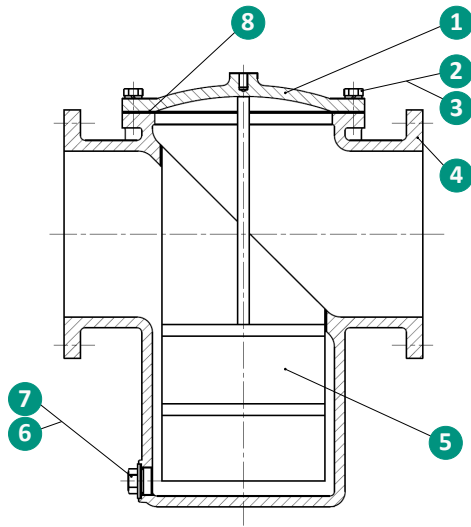
ST*	Mesh*	T*	øF*	Opening Area
	Per inch ²	mm	mm	%
Perforated	104 (DN 50-80)	0.5	1.5	28.0
	40 (DN 100-350)	1 (DN 100-300)	3	43.8
		1.5 (DN 350)		
	12 (DN 400-600)	2	5	35.0

*ST: Screen type • Mesh: Number of holes • T: Wire thickness • øF: Inscribed hole diameter

FIVC Basket Strainer

Ductile Iron – PN 16 – EN 1092-2

Product Specification



N°	Name	Material
1	Cover	Ductile Iron
2	Bolt	Stainless Steel SS304
3	Spring washer	Stainless Steel SS304
4	Body	Ductile Iron
5	Screen	Stainless Steel SS304
6	Plug	Stainless Steel SS304
7	Gasket	EPDM
8	Gasket	EPDM

FIVC Check Valve

Swing
Dual Plate
Silent
Lift
Ball Check



FIVC Swing Check Valve

Brass – PN 16 – Screwed Cap – ISO 228



FCH series

Technical data

Main features and materials

- Body: DN 15-25: Brass CW614N
DN 32-50: Brass CB753S
- Cap: Brass CW617N
- Disc: Brass CW617N
- O-Ring: NBR
- Opening pressure: 0.05 bar
- Compatible fluids: Water for heating systems, domestic hot water, water containing glycol (max. 30 % glycol)
- USP: Cost- and maintenance efficient

Field of applications

- Temperature range: 5 to 95 °C (110 °C for occasional peaks)
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned.

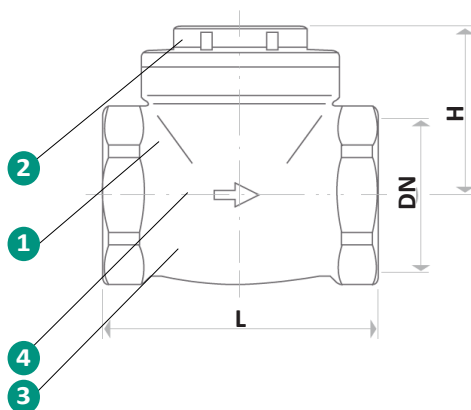
The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section, which is obtained via the oscillation of the disc.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	H*	L*	Kv (m ³ /h)	Kg
FCH015B16CS15	15	46	47	6.5	0.147
FCH020B16CS15	20	51	53	10.5	0.208
FCH025B16CS15	25	61	63	17.8	0.412
FCH032B16CS15	32	73	74	19.8	0.65
FCH040B16CS15	40	85	87	26.7	0.8
FCH050B16CS15	50	94	97	42.8	1.256

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	DN 15-25: Brass CW614N UNI EN 12164 DN 32-50: Brass CB753S UNI EN 1982
2	Cap	Brass CW617N UNI EN 12165
3	O-Ring	NBR
4	Disc	Brass UNI EN 12165 CW617N

FIVC Swing Check Valve

Bronze – PN 16 – Screwed Cap – ISO 228



FCH series

Technical data

Main features and materials

- Body: Bronze C83600
- Cap: Brass CW617N
- Disc: Brass CW617N
- Seat: Integral seat

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: 16 bar (7 bar at 170 °C)

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid.

Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned.

The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section, which is obtained via the oscillation of the disc.

The valve has a Working Steam Pressure (WSP) of 100 Psi and can be used for Water, Oil, and Gas of 200 Psi.

Alternative Product Versions

PN 16, Disc in NBR

WOG: 200 Psi • WSP: 100 Psi

Item No: FCH015O16CS13... FCH100O16CS13

Other Standards

ANSI • ASME B1.20.1 • NPT

ISO 7/1 Rc/Rp threads

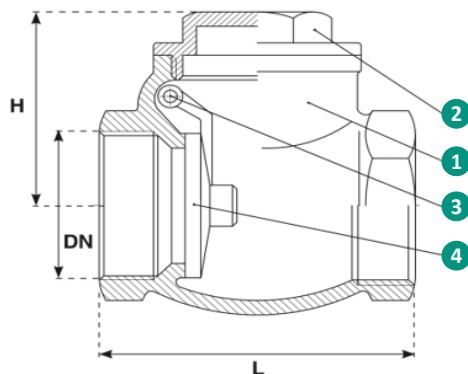
Sealing upon request

Teflon • NBR • EPDM

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	Kg
FCH015O16CS01	15	52	38	0.22
FCH020O16CS01	20	66.5	45	0.37
FCH025O16CS01	25	71	48.5	0.50
FCH032O16CS01	32	90	58	0.73
FCH040O16CS01	40	87	62	0.83
FCH050O16CS01	50	110	67	1.38

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze C83600 ASTM B62
2	Cap	Brass CW617N UNI EN 12165
3	Pin	Brass CW614N UNI EN 12164
4	Disc	Brass CW617N UNI EN 12165

FIVC Swing Check Valve

Bronze – PN 20 – Screwed Cap – ISO 228



FCH series

Technical data

Main features and materials

- Body: Bronze CC491K
- Cap: Bronze CC491K
- Disc: Brass CW602N
- Hinge: Brass CW602N
- Standard: BS 5154

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 20 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned.

The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section, which is obtained via the oscillation of the disc; these elements also mean that they are extremely quiet.

The valve can be used for Water, Oil, and Steam respectively.

Alternative Product Versions

Other Standards

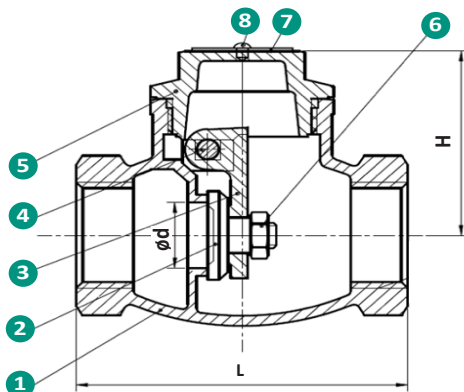
ANSI - ASME B1.20.1 - NPT

ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	ød*	Kg
FCH015O20CS0921	15	58	37	13	0.252
FCH020O20CS0921	20	66	43	19	0.401
FCH025O20CS0921	25	76	49	25	0.605
FCH032O20CS0921	32	88	57.5	32	0.87
FCH040O20CS0921	40	96	63	39	1.155
FCH050O20CS0921	50	112	72	50	1.8

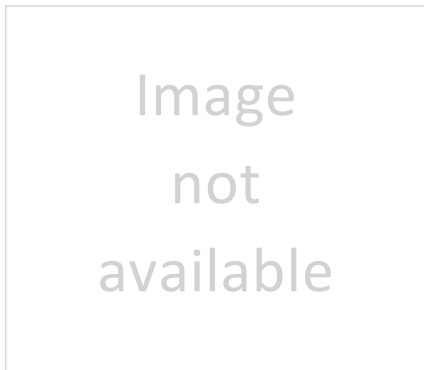
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Disc	Brass CW617N BS EN 12164
3	Hinge	Brass CW617N BS EN 12164
4	Hinge pin	Stainless Steel SS 201
5	Cap	Bronze CC491K BS EN 1982
6	Hinge nut	Brass CW617N BS EN 12164
7	ID plate	Aluminium
8	Drive screw	Aluminium

FIVC Swing Check Valve

Bronze – PN 20 – Screwed Cap – WRAS – ISO 228



FCH series

Technical data

Main features and materials

- Body: Bronze CC491K
- Cap: Bronze CC491K
- Disc: NBR rubber
- Hinge: Bronze CC491K
- USP: WRAS approval
- Standard: BS 5154

Field of applications

- Max. temperature: 80 °C
- Max. working pressure: 20 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned.

The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section, which is obtained via the oscillation of the disc; these elements also mean that they are extremely quiet.

The valve can be used for Water, Oil, and Steam respectively.

Alternative Product Versions

Other Standards

ANSI - ASME B1.20.1 - NPT

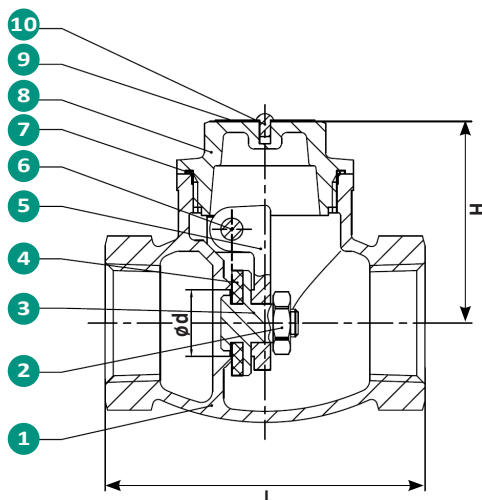
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).



Dimensions



Product Information

Product code	Size (DN)	ød*	L*	H*	Kg
FCH015O20CS1121	15	ø12	58	58	-
FCH020O20CS1121	20	ø18	66	66	-
FCH025O20CS1121	25	ø24	76	76	-
FCH032O20CS1121	32	ø30.6	88	88	-
FCH040O20CS1121	40	ø37	96	96	-
FCH050O20CS1121	50	ø48.6	112	112	-

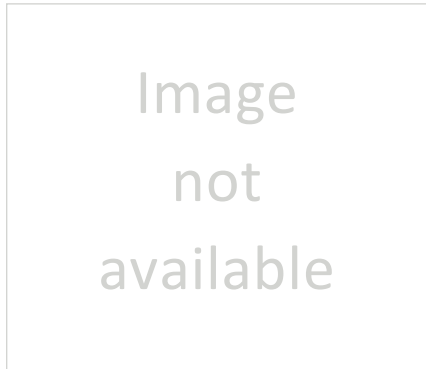
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Hinge nut	Stainless Steel SS 304
3	Disc holder	Bronze CC491K BS EN 1982
4	Disc	NBR
5	Hinge	Bronze CC491K BS EN 1982
6	Hinge pin	Stainless Steel SS 304
7	Packing	PTFE
8	Cap	Bronze CC491K BS EN 1982
9	ID plate	Aluminium
10	Drive screw	TP2

FIVC Swing Check Valve

Bronze – PN 25 – Screwed Cap – ISO 228



FCH series

Technical data

Main features and materials

- Body: Bronze CC491K
- Cap: Bronze CC491K
- Disc: DN 15-25: Brass CW602N
DN 32-50: Bronze CC491K
- Hinge: Bronze CC491K

Field of applications

- Max. temperature: 170 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned.

The valve can be used for Water, Oil, and Steam respectively.

Alternative Product Versions

Other Standards

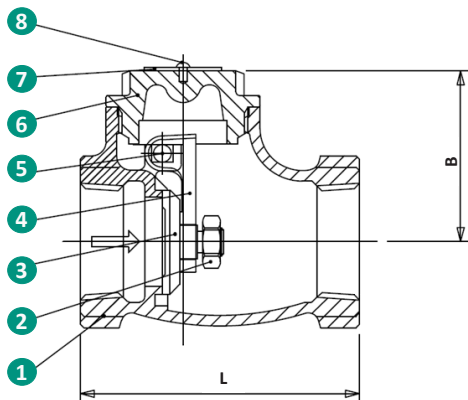
ANSI • ASME B1.20.1 • NPT

ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	B*	Kg
FCH015O25CS0921	15	58	38	0.332
FCH020O25CS0921	20	66	42	0.44
FCH025O25CS0921	25	80	49	0.687
FCH032O25CS0721	32	89	56	1.01
FCH040O25CS0721	40	95	65	1.423
FCH050O25CS0721	50	108	76	2.39

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Disc	DN 15-25: Brass CW617N BS EN 12164 DN 32-50: Bronze CC491K BS EN 1982
3	Hinge	Bronze CC491K BS EN 1982
4	Hinge pin	Stainless Steel SS 201
5	Cap	Bronze CC491K BS EN 1982
6	Hinge nut	Brass CW617N BS EN 12164
7	ID plate	Aluminium
8	Drive screw	Aluminium

FIVC Swing Check Valve

Grey Cast Iron/Ductile Iron – PN 16 – Bolted Bonnet – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Grey Cast Iron
DN 200-300: Ductile Iron
- Bonnet: Grey Cast Iron
DN 200-300: Ductile Iron
- Disc: Grey Cast Iron GG 25
DN 350-400: Grey Cast Iron+Brass/Rubber
- Hinge: Ductile Iron
- Seat: Brass
- Finish: Epoxy coating
- Dimensions: Face-to-Face acc. to DIN 3202-F6
Flanges acc. to DIN 2533

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

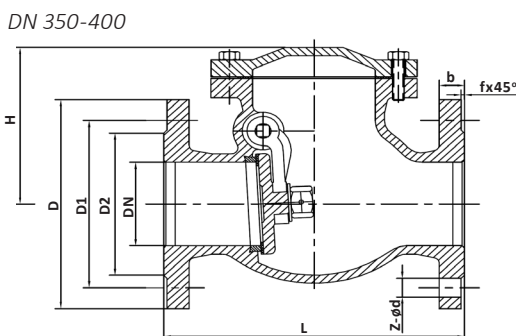
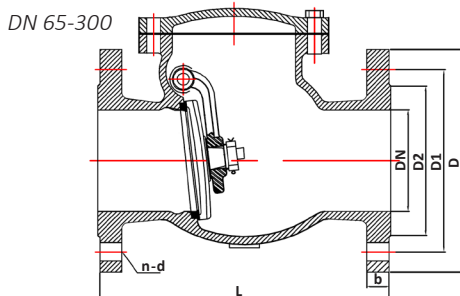
Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned. The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section, which is obtained via the oscillation of the disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

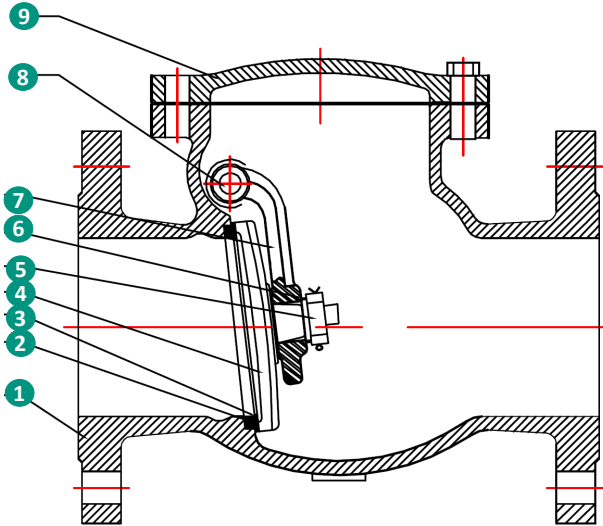
Product code	Size (DN)	L*	D*	D1*	D2*	H*	b*	f*	n-d or Z-d	Kg
FCH065C16CB217	65	240	185	145	122	-	20	-	4-19	-
FCH080C16CB217	80	260	200	160	138	-	22	-	8-19	-
FCH100C16CB217	100	300	220	180	158	-	24	-	8-19	-
FCH125C16CB217	125	350	250	210	188	-	26	-	8-19	-
FCH150C16CB217	150	400	285	240	212	-	26	-	8-23	-
FCH200N16CB217	200	500	340	295	268	-	30	-	12-23	-
FCH250N16CB217	250	600	405	355	320	-	32	-	12-28	-
FCH300N16CB217	300	700	460	410	378	-	32	-	12-28	-
FCH350C16CB218	350	800	520	470	438	378	36	4	16-27	288
FCH400C16CB218	400	900	580	525	490	405	38	4	16-30	357.5

*Dimensions are in millimeters

FIVC Swing Check Valve

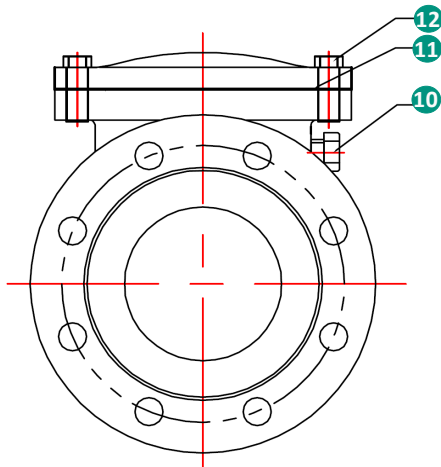
Grey Cast Iron/Ductile Iron – PN 16 – Bolted Bonnet – EN 1092-2

Product Specification



DN 65-300

N°	Name	Material
1	Body	DN 65-150: Cast Iron GG 25 DN 200-300: Ductile Iron GGG 50
2	Body Seat	Brass
3	Disc Seat	Brass
4	Disc	Grey Cast Iron GG 25
5	Cap	40 Cr
6	Washer	40 Cr
7	Plug	DN 65-150: Cast Iron GG 25 DN 200-300: Ductile Iron GGG 50
8	Hinge	Stainless Steel 2Cr 13
9	Bonnet	DN 65-150: Cast Iron GG 25 DN 200-300: Ductile Iron GGG 50
10	Bolt	40 Cr
11	Bolt	40 Cr



DN 350-400

N°	Name	Material
1	Body	Grey Cast Iron GG 25
2	Seat ring	Brass
3	Disc	Grey Cast Iron + Brass/Rubber
4	Hinge pin. Nut	Stainless Steel + Ductile Iron GGG 40
5	Hinge	Ductile Iron GGG 40
6	Bonnet	Grey Cast Iron GG 25
7	Gasket	Graphite
8	Bolt	Carbon Steel, Stainless Steel
9	Nut, cotter	Carbon Steel, Stainless Steel

FIVC Swing Check Valve

Grey Cast Iron – PN 16 – Bolted Bonnet – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Disc: Stainless Steel
- Hinge: Ductile Iron
- Plug: Zinc Galvanized 10S20 Grey Cast Iron
- USP: Compact settlement
Environment-friendly
Cost and maintenance efficient
- Dimensions: Face-to-Face acc. to EN 558 (series 48)
- Closing tightness: EN 12334

Field of applications

- Temperature range: -10 to 300 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

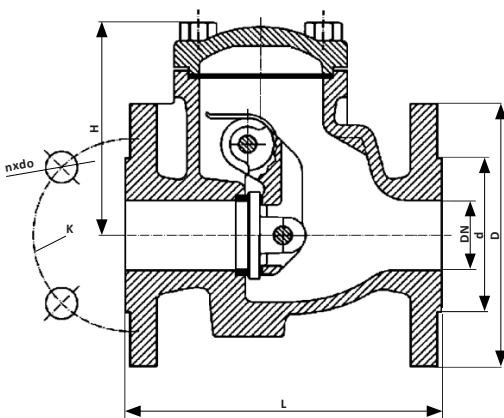
Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

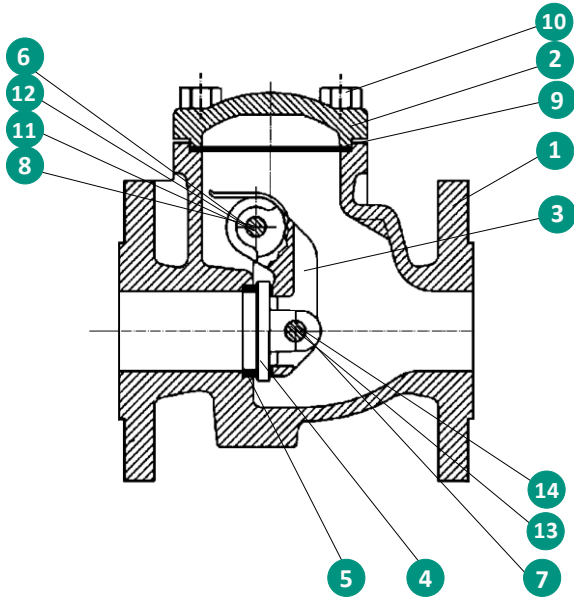
Product code	Size (DN)	L*	D*	d*	K*	nxdo*	H*	Kg
FCH065C16CB04	65	240	185	118	145	4x19	141	15.2
FCH080C16CB04	80	260	200	132	160	8x19	168	20.8
FCH100C16CB04	100	300	220	156	180	8x19	175	31.5
FCH125C16CB04	125	350	250	184	210	8x19	199	46
FCH150C16CB04	150	400	285	211	240	8x23	217	60
FCH200C16CB04	200	500	340	266	295	12x23	292	120
FCH250C16CB04	250	600	405	319	355	12x28	355	180
FCH300C16CB04	300	700	460	370	410	12x28	374	250

*Dimensions are in millimeters

FIVC Swing Check Valve

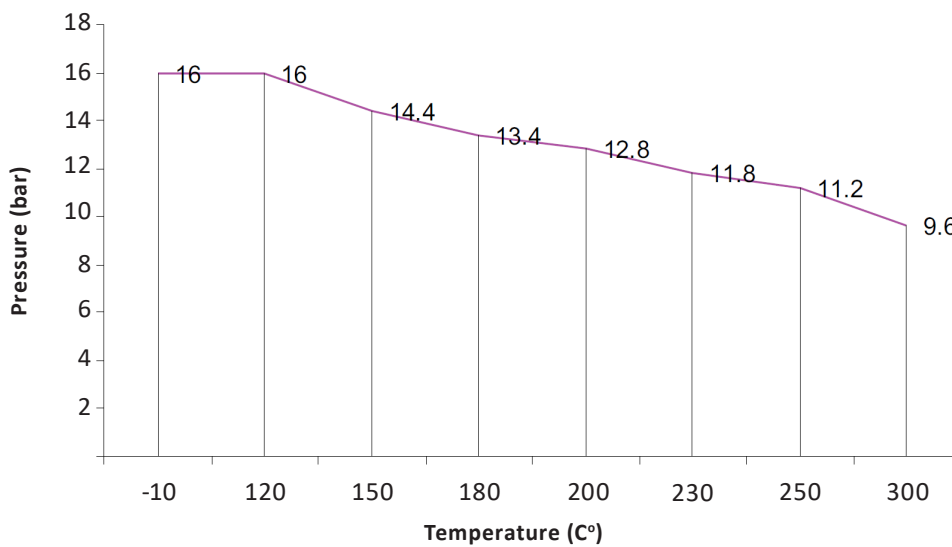
Grey Cast Iron – PN 16 – Bolted Bonnet – EN 1092-2

Product Specification



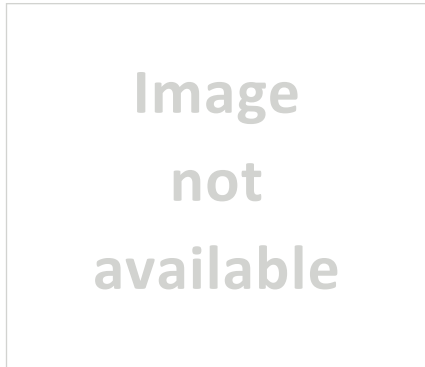
N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Cover	Grey Cast Iron EN-GJL-250 JL 1040
3	Hinge	Ductile Iron EN-GJS-500-7 JS 1050
4	Flap	Stainless Steel LH14 G-X20Cr14
5	Seat ring	Stainless Steel X12Cr13
6	Pin bearing	DN 200+: Brass
7	Flap pin	Stainless Steel X12Cr13 1.4021
8	Pin	A4 1.4571
9	Cover gasket	Graphite CrNi
10	Bolt	8.8 A2A
11	Plug	DN 40-150: Zinc Galvanized 10S20 DN 200: EN-GJL-250 JL1040
12	Plug gasket	Carbomide Rubber
13	Washer	Carbon Steel A2A
14	Split pin	Stainless Steel X5CrNi 18-10

Pressure-Temperature Ratings



FIVC Swing Check Valve

Ductile Iron – PN 25 – Bolted Bonnet – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron
- Gasket: Graphite+Steel
- Seat: Bronze CC491K
- Dimensions: Face to Face acc. to BS EN 558 (series 10)
- Standard: Design acc. to BS EN 12334
- Tests: BS EN 112266-1

Field of applications

- Max. temperature: 230 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

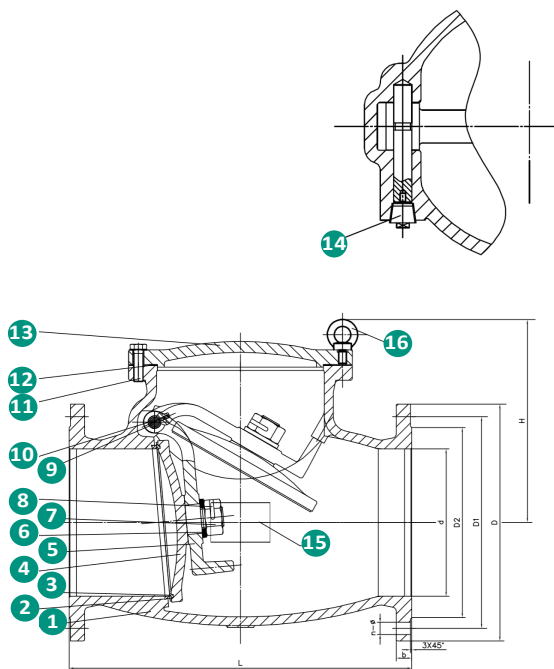
Description

FIVC Swing Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. Since these valves function via the gravitational force that acts on the tilting disc, there is no universal guideline as to where these should be positioned. The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section, which is obtained via the oscillation of the disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	d*	L*	D*	D1*	D2*	b*	n-d*	H*	Kg
FCH065N25CB211	65	63.5	216	185	145	118	20	8-19	127	14
FCH080N25CB211	80	78	241	200	160	132	22	8-19	145	19
FCH100N25CB211	100	100	292	235	190	156	24	8-23	161	32
FCH125N25CB211	125	125	330	270	220	184	26	8-28	190	45
FCH150N25CB211	150	150	356	300	250	221	26	8-28	248	59
FCH200N25CB211	200	200	495	360	310	274	30	12-28	303	107
FCH250N25CB211	250	250	622	425	370	330	32	12-31	365	158
FCH300N25CB211	300	300	698	485	430	389	32	16-31	410	246
FCH350N25CB211	350	356	787	555	490	448	36	16-34	590	500
FCH400N25CB211	400	406	914	620	550	503	38	16-37	608	680

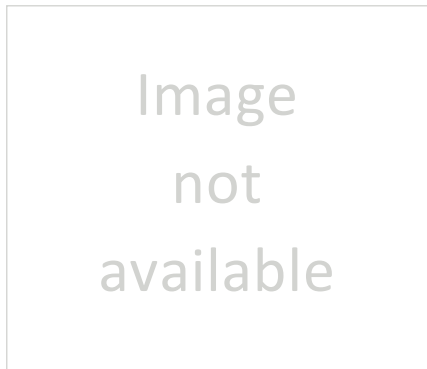
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron EN-GJS-450-10
2	Seat	Bronze CC491K EN 1982
3	Disc ring	Bronze CC491K EN 1982
4	Disc	Ductile Iron EN-GJS-450-10
5	Hinge	Carbon Steel WCB
6	Washer	Steel EN 10025-2 S235JR
7	Nut	Steel EN 10025-2 S235JR
8	Pin	Stainless Steel SS 304
9	Hinge pin	12 CR
10	Set screw	Steel EN 10025-2 S235JR
11	Bolt	Steel EN 10025-2 S235JR
12	Gasket	Graphite + Steel
13	Bonnet	Ductile Iron EN-GJS-450-10
14	Plug	Malleable
15	Nameplate	Aluminium
16	Lifting bolt	Steel EN 10025-2 S235JR

FIVC silent Check Valve

Grey Cast Iron – PN 16 – Wafer – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Guide: Ductile Iron
- Disc: Ductile Iron
- Guiding stem: Copper Alloy
- Spring: Stainless Steel
- Seal: EPDM
- USP: Silent closing
Allows installation in all positions
Low head loss
No maintenance

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Low-pressure steam plants
- Mechanical industry
- Steam applications
- Hot and cold water plants
- Air conditioning systems

Description

FIVC Silent Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid.

Benefits of using a silent check valve is the valve's ability to close silently with help of its preloaded spring, preventing the water hammer phenomenon.

Further, the valve ensures reliability without manual operation or energy performance.

With its innovative construction, the valve features several

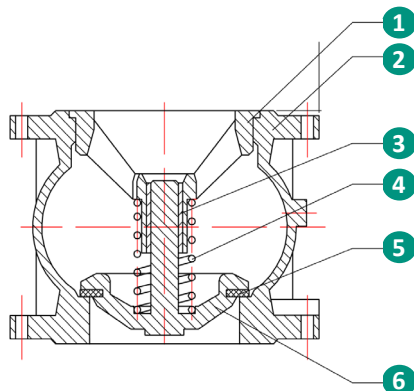
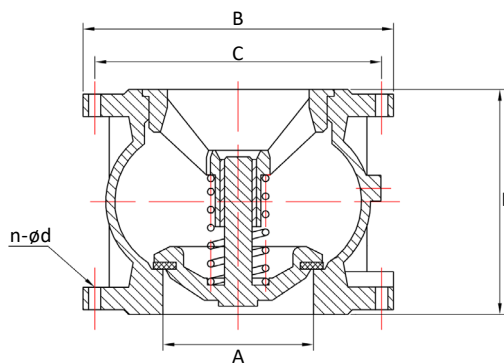
benefits and provides cost-, maintenance, and installation efficiency.

The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

Product code	Size (DN)	L*	A*	B*	C*	n-ød*	Kg
FCH050C16SC220	50	100	50	165	125	4-18.5	-
FCH065C16SC220	65	120	65	185	145	4-18.5	-
FCH080C16SC220	80	140	80	200	160	8-18.5	-
FCH100C16SC220	100	170	101	220	180	8-18.5	-
FCH125C16SC220	125	200	127	250	210	8-18.5	-
FCH150C16SC220	150	230	145.5	285	240	8-23	-
FCH200C16SC220	200	301	194	340	295	12-23	-
FCH250C10SC220	250	370	245	405	355	12-28	-
FCH300C10SC220	300	410	300	460	410	12-28	-

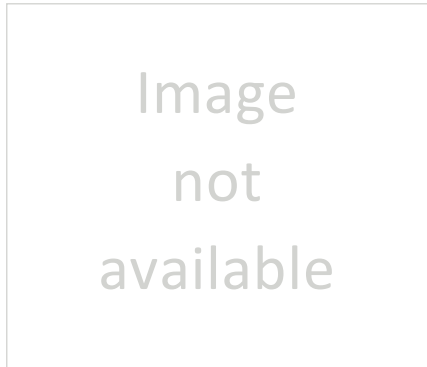
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Guide	Ductile Iron GGG 40 CuZn40Pb2
2	Body	Grey Cast Iron GG 25
3	Guiding stem	Copper Alloy CuZn40Pb2
4	Spring	Stainless Steel
5	Seal	EPDM
6	Disc	Ductile Iron GGG 40 CuZn40Pb2

FIVC silent Check Valve

Grey Cast Iron – PN 10/16 – Wafer – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Guide: Ductile Iron
- Closing system: Ductile Iron
- Guiding system: Brass P/CuZn40Pb2
- Spring: Stainless Steel
- Seal: EPDM
- USP: Allows installation in all positions
Low head loss
No maintenance

Field of applications

- Temperature range: -10 to 80 °C
- Max. working pressure: DN 50-200: 16 bar
DN 250-300: 10 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Low-pressure steam plants
- Mechanical industry
- Steam applications
- Hot and cold water plants
- Air conditioning systems

Description

FIVC Silent Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid.

Benefits of using a silent check valve is the valve's ability to close silently with help of its preloaded spring, preventing the water hammer phenomenon.

Further, the valve ensures reliability without manual operation or energy performance.

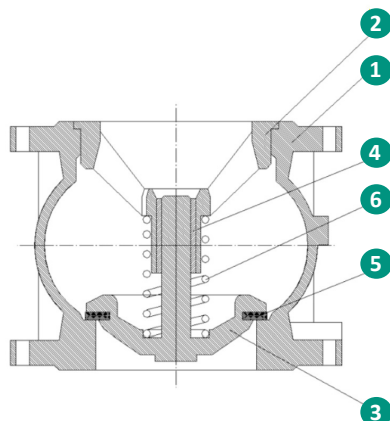
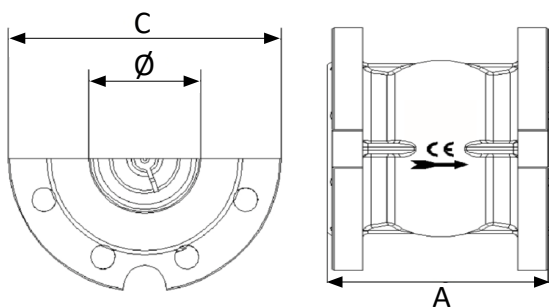
With its innovative construction, the valve features several

benefits and provides cost-, maintenance, and installation efficiency.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Module A, dated 15/05/2014.

Dimensions



Product Information

Product code	Size (DN)	Ø*	A*	C*	Kv (m ³ /h)	Kg
FCH050C16SC55	50	50	100	165	99	5.7
FCH065C16SC55	65	65	120	185	145	8.7
FCH080C16SC55	80	80	140	200	258	10.8
FCH100C16SC55	100	101	170	220	360	13.5
FCH125C16SC55	125	127	200	250	516	21.0
FCH150C16SC55	150	145	230	285	620	30.0
FCH200C16SC55	200	194	300	340	985	49.0
FCH250C10SC55	250	245	370	395	1620	73.3
FCH300C10SC55	300	295	410	445	2365	173.5

*Dimensions are in millimeters

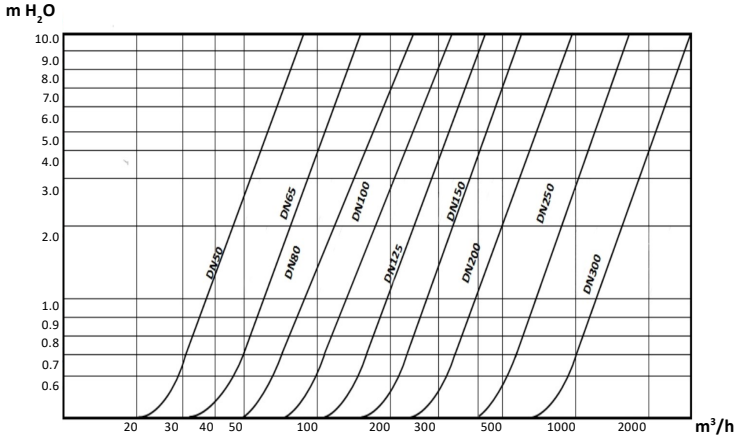
Product Specification

N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Guide	Ductile Iron EN-GJS-400-15
3	Closing System	Ductile Iron EN-GJS-400-15
4	Guiding Stem	Brass P/CuZn40Pb2
5	Spring	Stainless Steel AISI 302
6	Seal	EPDM

FIVC Silent Check Valve

Grey Cast Iron – PN 10/16 – Wafer – EN 1092-2

Hydraulic Characteristics



FIVC Dual Plate Check Valve

Grey Cast Iron/Ductile Iron – PN 16 – Wafer – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: DN 65-300: Grey Cast Iron
DN 350-600: Ductile Iron
- Disc: Stainless Steel
- Spring: Stainless Steel
- Seat: EPDM
- Finish: RAL 5015 (min. 250 micron)
- USP: Silent check valve;
Prevents water hammer
Compact settlement
Cost and maintenance efficient
- Pressure test: API 598 DIN 3230
- Dimensions: Face-to-Face acc. to DIN 3202 K3
(EN 558-1 row 16)

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar
- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engineering and air-conditioning

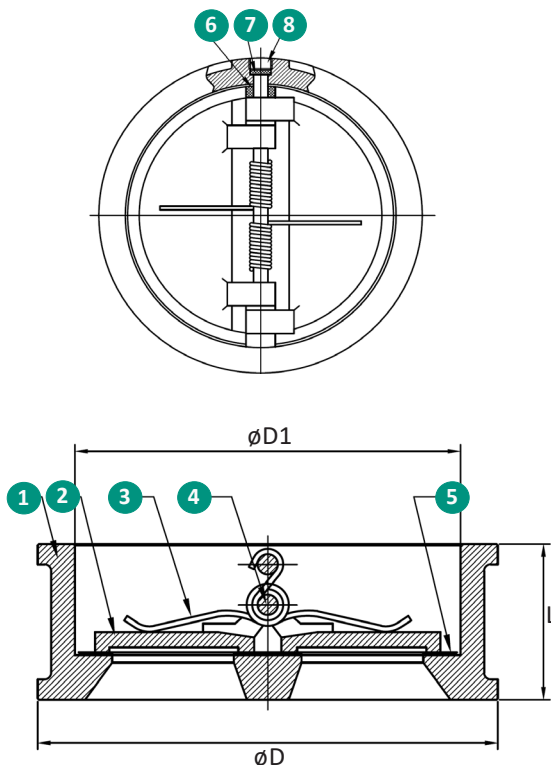
Description

FIVC Dual Plate Wafer Check Valve is manufactured in accordance with the most severe product norms. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency. The valve is known for compact settlement and does prevent the water hammer phenomenon, hence belongs to the silent type of check valves.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Annex III, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	ØD*	ØD1*	L*	Kg
FCH065C16DP210	65	129	80	46	2.3
FCH080C16DP210	80	144	98	64	3.6
FCH100C16DP210	100	164	117	64	4.35
FCH125C16DP210	125	194	145	70	6
FCH150C16DP210	150	220	172	76	8.6
FCH200C16DP210	200	275	221	89	15.2
FCH250C16DP210	250	330	275.5	114	24
FCH300C16DP210	300	386	325.5	114	35
FCH350N16DP210	350	446	361	127	58
FCH400N16DP210	400	498	412	140	71
FCH450N16DP210	450	558	468	152	98
FCH500N16DP210	500	620	515	152	125
FCH600N16DP210	600	737	624	178	170

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	DN 65-300: Grey Cast Iron DN 350-600: Ductile Iron
2	Disc	Austenitic Stainless Steel CF8
3	Spring	Stainless Steel SS 304
4	Shaft	Stainless Steel SS 304
5	Seat	EPDM
6	Washer	PTFE
7	Sealing	NBR
8	Screw	RST 37.2

FIVC Dual Plate Check Valve

Grey Cast Iron – PN 10/16 – Wafer – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Disc: Stainless Steel
- Spring: Stainless Steel
- Seat: Stainless Steel
- USP: Compact settlement
Environment-friendly
No maintenance

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: DN 50-200: 16 bar
DN 250-350: 10 Bar

- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engineering and air-conditioning

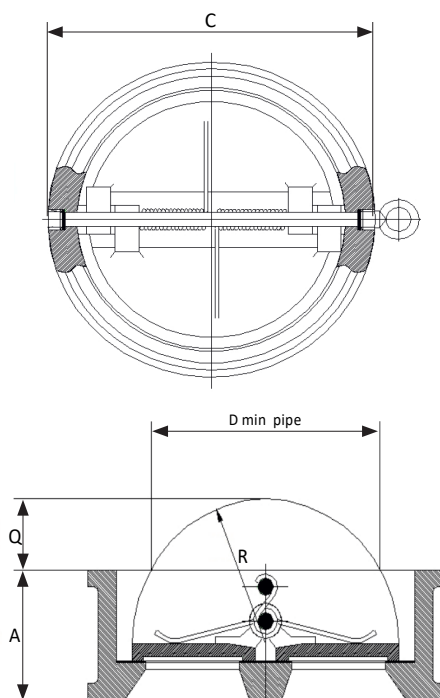
Description

FIVC Dual Plate Wafer Check Valve is manufactured in accordance with the most severe product norms. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency. The valve is known for compact settlement and does prevent the water hammer phenomenon, hence belongs to the silent type of check valves.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Module A, dated 15/05/2014.

Dimensions



Product Information

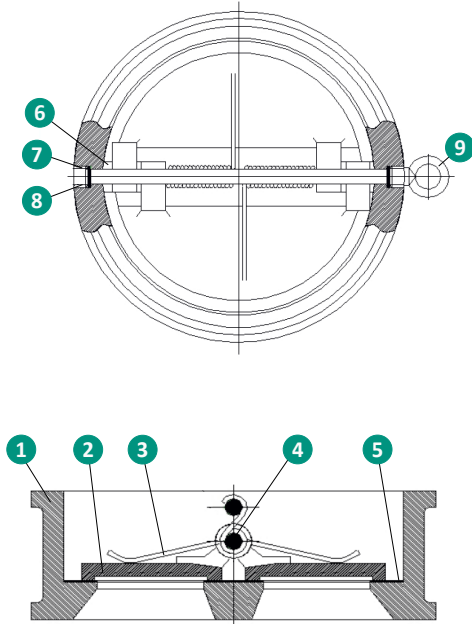
Product code	Size (DN)	D**	A*	C*	R*	Q*	Kv (m ³ /h)	Kg
FCH040C16DP57	40	36	43	91	25.8	6.8	34	1.2
FCH050C16DP57	50	42	43	107	27	8.6	34	1.5
FCH065C16DP57	65	60	46	127	35	15.2	54	2.0
FCH080C16DP57	80	66	64	142	42	14.3	95	2.8
FCH100C16DP57	100	86	64	162	50	22.3	200	4.1
FCH125C16DP57	125	115	70	192	64	33.7	320	6.4
FCH150C16DP57	150	143	76	218	77	45.4	467	8.5
FCH200C16DP57	200	197	89	273	102.5	69.6	990	13.5
FCH250C10DP57	250	231	114	328	125	74.5	1584	22
FCH300C10DP57	300	281	114	378	146	102.7	2783	30
FCH350C10DP57	350	330	127	437	170	124.7	3689	48

*Dimensions are in millimeters
**D: Min. pipe

FIVC Dual Plate Check Valve

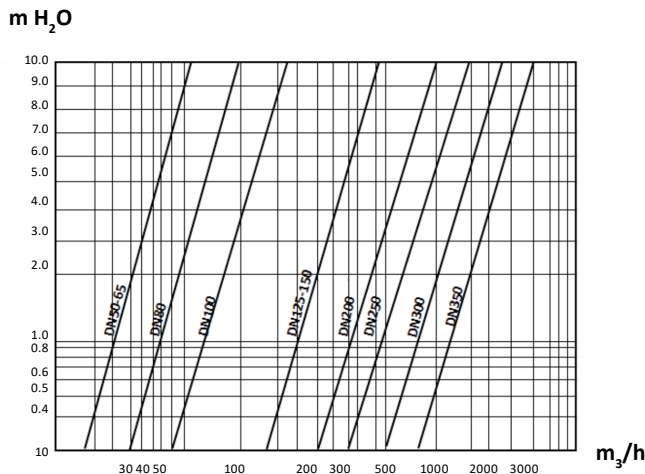
Grey Cast Iron – PN 10/16 – Wafer – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Disc	Stainless Steel X5CrNi18-10
3	Spring	Stainless Steel X5CrNi18-10
4	Pin	Stainless Steel X5CrNi18-10
5	Seat	EPDM
6	Sleeve	Teflon
7	Seal	EPDM
8	Screw	Steel S235JR
9	Sling	DN 125-350: Steel S235JR

Hydraulic Characteristics



FIVC Dual Plate Check Valve

Ductile Iron – PN 16 – Wafer – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel/Ductile Iron
- Spring: Stainless Steel
- Seal: EPDM
(thickness equal 1.5-6 mm)
- USP: WRAS approval
Prevents the water hammer
Compact settlement
Cost and maintenance efficient
- Standards: BS 4504, AS 2129, BS10 E/D, JIS 10K
- Dimensions: Face-to-Face acc. to DIN 3202, ISO 5752-16, EN 558-1

Field of applications

- Max. temperature: -10 to 85 °C
- Max. working pressure: 16 bar

- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engine ring and air-conditioning

Description

FIVC Dual Plate Wafer Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid. The valve is manufactured in accordance with the most severe product norms. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency. The valve is known for compact settlement and does prevent the water hammer phenomenon. The valve can be used for water.

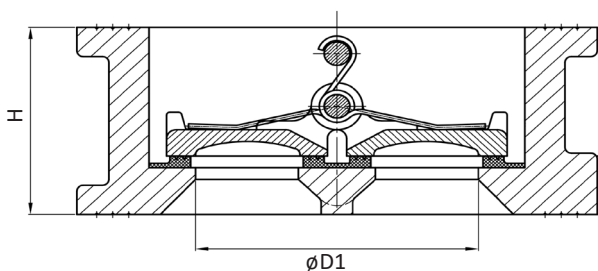
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

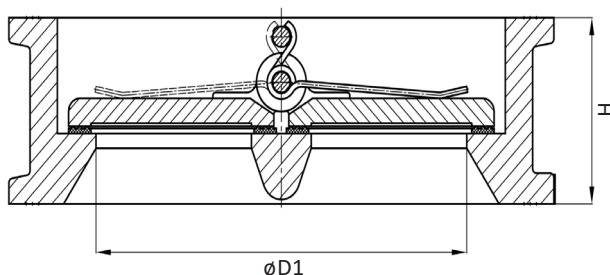


Dimensions

DN 65-150



DN 200-600



Product Information

Product code	Size (DN)	H*	$\varnothing D1^*$	Kg
FCH065N16DP231	65	46	$\varnothing 59$	-
FCH080N16DP231	80	64	$\varnothing 70$	-
FCH100N16DP231	100	64	$\varnothing 88$	-
FCH125N16DP231	125	70	$\varnothing 115$	-
FCH150N16DP231	150	76	$\varnothing 134$	-
FCH200N16DP231	200	89	$\varnothing 182$	-
FCH250N16DP231	250	114	$\varnothing 220$	-
FCH300N16DP231	300	114	$\varnothing 260$	-
FCH350N16DP231	350	127	$\varnothing 298$	-
FCH400N16DP231	400	140	$\varnothing 350$	-
FCH450N16DP231	450	152	$\varnothing 385$	-
FCH500N16DP231	500	152	$\varnothing 438$	-
FCH600N16DP231	600	178	$\varnothing 538$	-

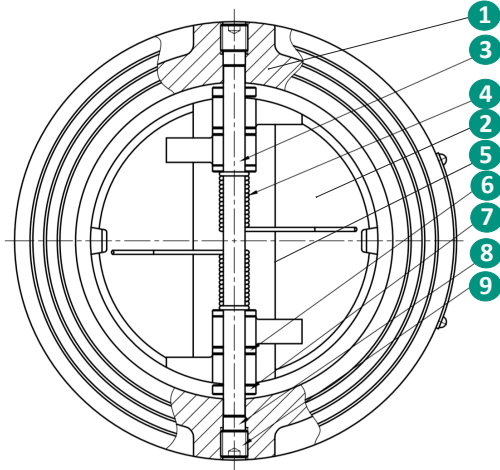
*Dimensions are in millimeters

FIVC Dual Plate Check Valve

Ductile Iron – PN 16 – Wafer – EN 1092-2

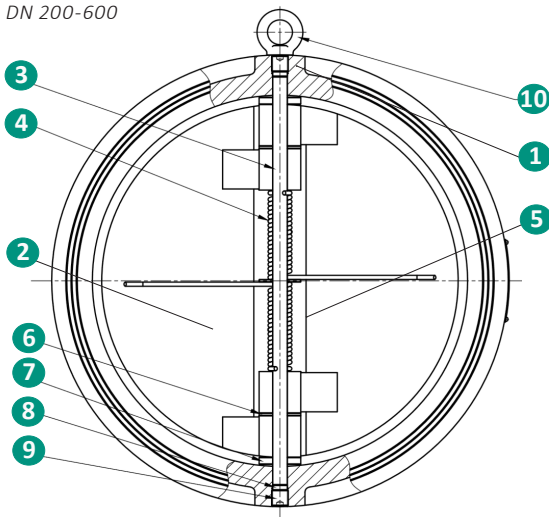
Product Specification

DN 65-150



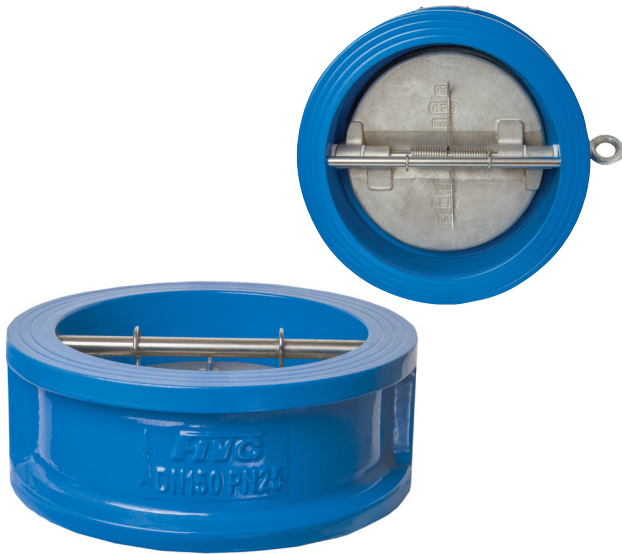
N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Ductile Iron A536 Gr. 65-45-12 / Stainless Steel A351 CF8
3	Shaft	Stainless Steel BS 970 316S11
4	Spring	Stainless Steel BS 970 316S11
5	Seat	EPDM
6	Gasket	Bronze B62 C83600
7	Washer	Bronze B62 C83600
8	Shaft seal	EPDM
9	Allen screws	Stainless Steel 304S15 BS 970
10	Lifting bolt <i>Only 200-600</i>	Stainless Steel 304S15 BS 970

DN 200-600



FIVC Dual Plate Check Valve

Ductile Iron – PN 25 – Wafer – EN 1092-2



FCH series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Spring: Stainless Steel
- Seat: EPDM
- Finish: RAL 5015 (min. 250 micron)
- USP: Silent check valve; Prevents the water hammer Compact settlement Cost and maintenance efficient
- Pressure test: API 598 DIN 3230
- Dimensions: Face-to-Face acc. to DIN 3202 K3 (EN 558-1 row 16)

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 25 bar

- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engineering and air-conditioning

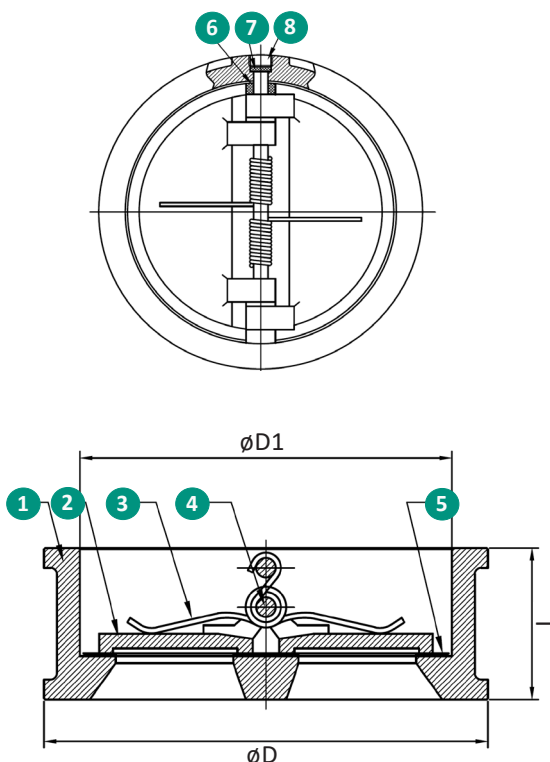
Description

FIVC Dual Plate Wafer Check Valve is manufactured in accordance with the most severe product norms. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency. The valve is known for compact settlement and does prevent the water hammer phenomenon.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Annex III, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	ØD*	ØD1*	L*	Kg
FCH065N25DP210	65	129	80	46	2.5
FCH080N25DP210	80	144	98	64	3.9
FCH100N25DP210	100	164	117	64	4.7
FCH125N25DP210	125	196	145	70	6.5
FCH150N25DP210	150	226	172	76	9.3
FCH200N25DP210	200	286	221	89	16.4
FCH250N25DP210	250	343	275.5	114	25.9
FCH300N25DP210	300	403	325.5	114	38
FCH350N25DP210	350	460	361	127	61.5
FCH400N25DP210	400	517	412	140	77
FCH450N25DP210	450	567	468	152	105.8
FCH500N25DP210	500	627	515	152	135
FCH600N25DP210	600	734	624	178	183

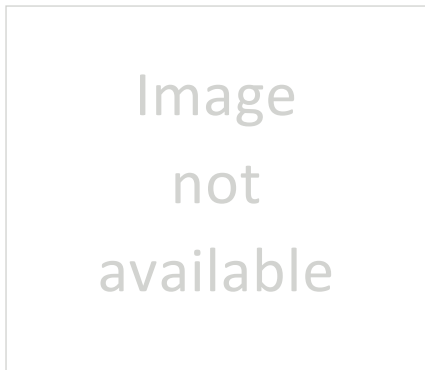
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GGG 40
2	Disc	Stainless Steel CF8
3	Spring	Stainless Steel SS 304
4	Shaft	Stainless Steel SS 304
5	Seat	EPDM
6	Washer	PTFE
7	Sealing	NBR
8	Screw	RST 37.2

FIVC Dual Plate Check Valve

Ductile Iron – PN 25 – Wafer – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel/Ductile Iron
- Spring: Stainless Steel
- Seal: EPDM
(thickness equal 1.5-6 mm)
- USP: WRAS approval
Prevents the water hammer
Compact settlement
Cost and maintenance efficient
- Standards: BS 4504, AS 2129, BS10 E/D,
JIS 10K
- Dimensions: Face-to-Face acc. to DIN 3202,
ISO 5752-16, EN 558-1

Field of applications

- Temperature range: -10 to 85 °C
- Max. working pressure: 25 bar
- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engineering and air-conditioning

FCH series

Description

FIVC Dual Plate Wafer Check Valve is manufactured in accordance with the most severe product norms. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency. The valve is known for compact settlement and does prevent the water hammer phenomenon.

Alternative Product Versions

Other Standards

Disc in Ductile Iron A536 Gr. 65-45-12

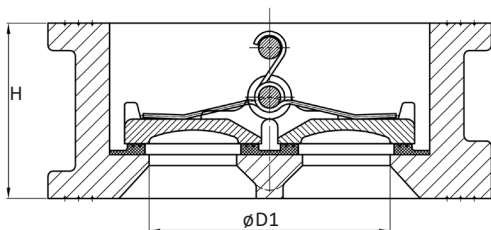
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

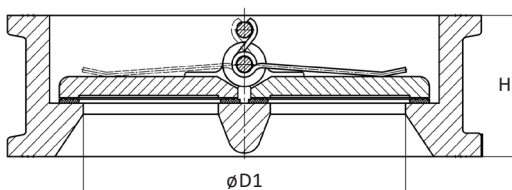


Dimensions

DN 65-150



DN 200-600



Product Information

Product code	Size (DN)	H*	øD1*	Kg
FCH065N25DP231	65	46	ø59	-
FCH080N25DP231	80	64	ø70	-
FCH100N25DP231	100	64	ø88	-
FCH125N25DP231	125	70	ø115	-
FCH150N25DP231	150	76	ø134	-
FCH200N25DP231	200	89	ø182	-
FCH250N25DP231	250	114	ø220	-
FCH300N25DP231	300	114	ø260	-
FCH350N25DP231	350	127	ø298	-
FCH400N25DP231	400	140	ø350	-
FCH450N25DP231	450	152	ø385	-
FCH500N25DP231	500	152	ø438	-
FCH600N25DP231	600	178	ø538	-

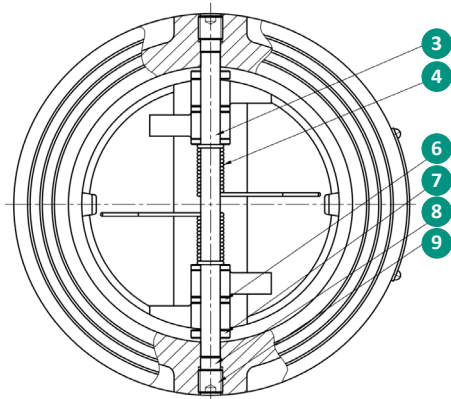
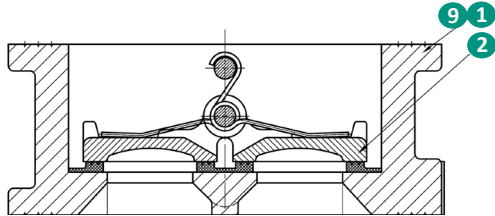
*Dimensions are in millimeters

FIVC Dual Plate Check Valve

Ductile Iron – PN 25 – Wafer – EN 1092-2

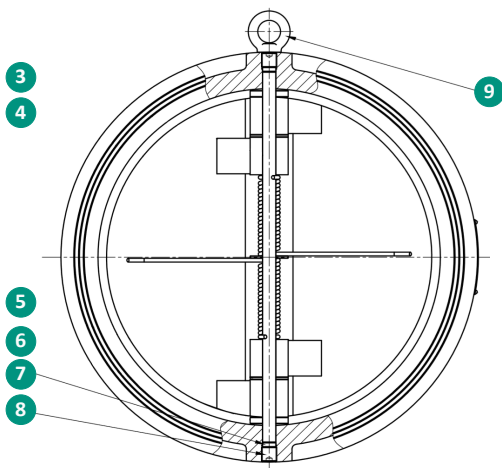
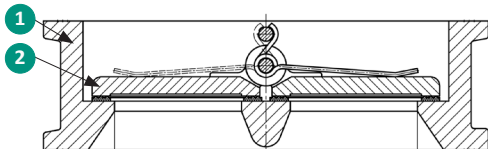
Product Specification

DN 65-150



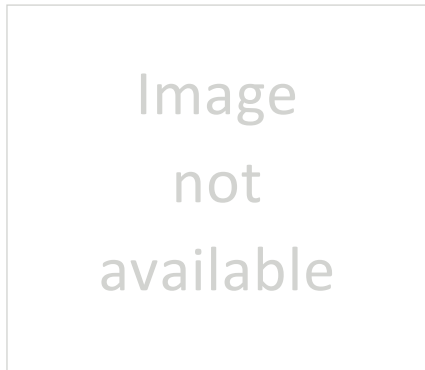
N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Stainless Steel A351 CF8M
3	Shaft	Stainless Steel BS 970 316S11
4	Spring	Stainless Steel BS 970 316S11
5	Seat	EPDM
6	Gasket	Bronze B62 C83600
7	Washer	Bronze B62 C83600
8	Shaft seal	EPDM
9	Allen screws	Stainless Steel 304S15 BS 970
10	Lifting bolt <i>Only DN 200 and above</i>	Stainless Steel 304S15 BS 970

DN 200-600



FIVC Ball Check Valve

Ductile Iron – PN 16 – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Gasket: NBR
- Bonnet: Ductile Iron
- Ball:
 - DN 50-80: Aluminium + EPDM
 - DN 100-600: Ductile Iron + EPDM
- Bolt: Stainless Steel
- USP: Compact settlement
- Standard:
 - BS EN1092-2
 - BS EN 1074-3/BS EN 12334
 - API 598 or ISO 5208
- Dimensions: Face-to-Face acc. to EN558. S10/S48, (DIN 3202 F6/BS 5153)
- Inspection and testing: BS EN12266-1

Field of applications

- Temperature range: -20 to 100 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

FCH series

Description

The FIVC Ball Check Valve is designed to be installed into pipelines to eliminate the return of pressurized fluid. Contrary to a normal check valve, the ball check valve is conically tapered and has an integrated insider ball that is guided by means of the flow into the shaped seat to seal and moves down to stop a reverse flow.

Benefits of using the FIVC Ball Check Valve include the valves ability to ensure reliable performance concurrently with its ability to prevent debris in the seat due to the automatic rotation of the integrated ball.

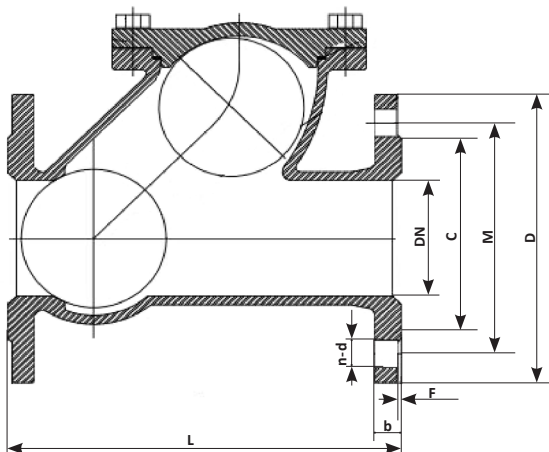
Further, the full port functionality ensures lowered friction loss in the pipeline.

Besides, the ball check valve has a simple and compact design leading to increased cost- and maintenance efficiency. The valve can be used for Water, Oil, and Steam.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

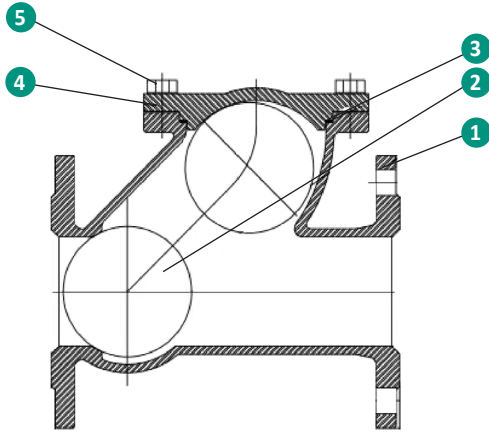
Product code	Size (DN)	L*		H*	D*	C*	M*	b*	F*	n-d*	Kg
		(DIN F6)	(BSS 153)								
FCH050N16BA213	50	200	203	108	165	99	125	19	3	4-19	-
FCH065N16BA213	65	240	216	132	185	118	145	19	3	4-19	-
FCH080N16BA213	80	260	241	151	200	132	160	19	3	8-19	-
FCH100N16BA213	100	300	292	198	220	156	180	19	3	8-19	-
FCH125N16BA213	125	350	330	210	250	184	210	19	3	8-19	-
FCH150N16BA213	150	400	356	270	285	211	240	19	3	8-23	-
FCH200N16BA213	200	500	495	368	340	266	295	20	3	12-23	-
FCH250N16BA213	250	600	622	471	405	319	355	22	3	12-28	-
FCH300N16BA213	300	700	698	531	460	370	410	24.5	4	12-28	-
FCH350N16BA213	350	800	787	613	520	429	470	26.5	4	16-28	-
FCH400N16BA213	400	900	914	690	580	480	525	28	4	16-31	-
FCH450N16BA213	450	1000	978	790	640	548	585	30	4	20-31	-
FCH500N16BA213	500	1100	978	882	715	609	650	31.5	4	20-34	-
FCH600N16BA213	600	1300	1295	1050	840	720	770	36	4	20-37	-

*Dimensions are in millimeters

FIVC Ball Check Valve

Ductile Iron – PN 16 – EN 1092-2

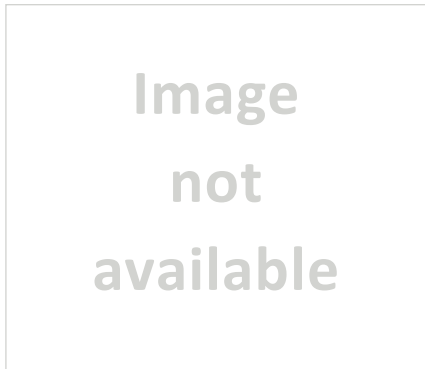
Product Specification



N°	Name	Material
1	Body	Ductile Iron
2	Ball	DN 50-80: Aluminium + EPDM DN 100-600: Ductile Iron + EPDM
3	Gasket	NBR
4	Bonnet	Ductile Iron
5	Bolts	Stainless Steel

FIVC Lift Check Valve

Bronze – PN 20 – Screwed Cap – ISO 228



FCH series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: Bronze CC491K
- Disc: Bronze CC491K
- Seat: NBR
- Spring: Stainless Steel

Field of applications

- Max. temperature: 110 °C
- Max. working pressure: 20 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lift Check Valve is designed as a single-direction device, which eliminates the return of pressurized fluid.

The disc (also called the lift) is lifted up of its seat as soon as the fluid pressure increases below the disc. The valve is closed when the fluid system has a pressure drop in the inlet line and increasing back pressure in the outlet line.

The advantage of the lift check valves is its enhanced tightness and closing functionality compared to the swing check valve.

This valve can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

Other Standards

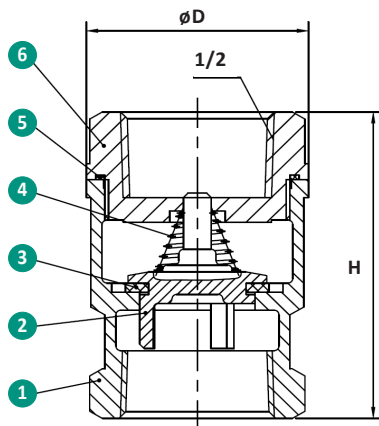
ANSI • ASME B1.20.1 • NPT

ISO 7/1 Rc/Rp threads

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 97/23/EC, dated 25/02/2000 and is exempted from CE marking according to Art. 3.3, Paragraph 3 (Cf. Sound Engineering Practice).

Dimensions



Product Information

Product code	Size (DN)	øD*	H*	Kg
FCH015O20PS0721	15	33	53	0.167
FCH020O20PS0721	20	41	60	0.261
FCH025O20PS0721	25	47	68	0.400
FCH032O20PS0721	32	58	79	0.602
FCH040O20PS0721	40	70	85	0.846
FCH050O20PS0721	50	82	98	1.370

*Dimensions are in millimeters

Product Specifications

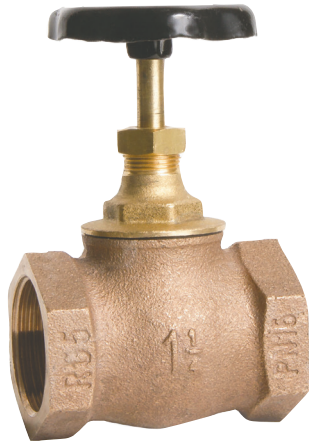
N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Disc	Bronze CC491K BS EN 1982
3	Seat	NBR
4	Spring	Stainless Steel SS 304
5	Gasket	PTFE
6	Bonnet	Bronze CC491K BS EN 1982



FIVC Globe Valve

FIVC Globe Valve

Bronze – PN 16 – Rising Stem – ISO 228



FGL series

Technical data

Main features and materials

• Body:	Bronze CC491K
• Bonnet:	Brass CW617N
• Disc:	Brass CW617N
• Stem:	Brass CW617N
• Handwheel:	Steel

Field of applications

• Temperature range:	0 to 100 °C
• Max. temperature w/saturated steam:	170 °C
• Max. working pressure:	16 bar
• Petrochemical industry	• Textile industry
• Irrigation systems	• Mechanical industry
• Mining and infrastructure industries	• Steam applications
• Shipyard industry	• Other various industries
• Compressed air	

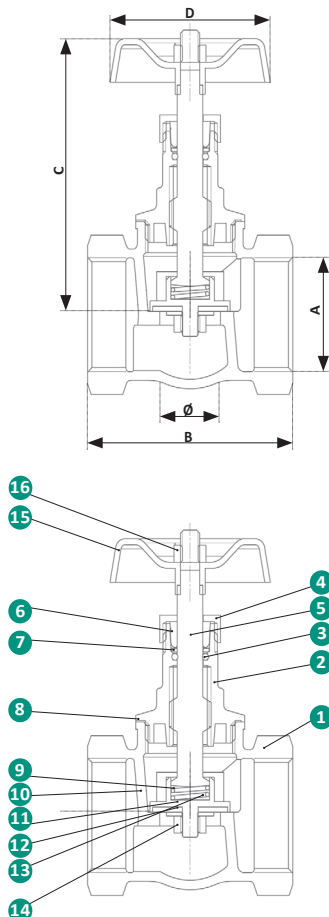
Description

FIVC Globe Valve is designed for isolating and opening the flow in the pipeline. With its robust construction and compact settlement, the FIVC Globe Valve does provide the best solution for the regulation of the flow.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	B*	C*	D*	Ø*	Kg
FGL015O16RS	15	50	71	50	11	0.306
FGL020O16RS	20	55	77	50	13	0.463
FGL025O16RS	25	64	90	60	19	0.64
FGL032O16RS	32	73	103	60	23	0.988
FGL040O16RS	40	83	113	70	29	0.95
FGL050O16RS	50	88	132	80	36	2.072

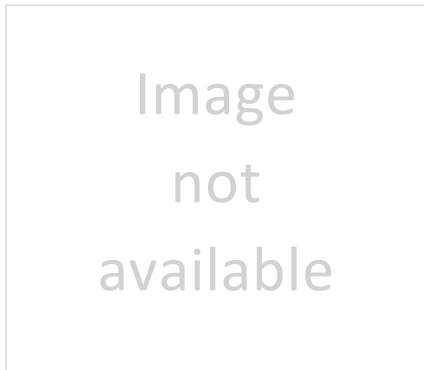
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K UNI EN 1982:200
2	Bonnet	Brass CW617N UNI EN 12165
3	O-Ring	NBR
4	Nut	Brass CW617N UNI EN 12165
5	Stem	Brass CW614N UNI EN 12164
6	Packing	PTFE
7	Washer	Brass CW614N UNI EN 12164
8	Washer	PTFE
9	Spring	Stainless Steel
10	Ring nut	Brass CW617N UNI EN 12165
11	Disc	Brass CW617N UNI EN 12165
12	Disc gasket	PTFE
13	Washer	Brass CW614N UNI EN 12164
14	Nut	Brass CW614N UNI EN 12164
15	Handwheel	Steel - Red coated
16	Wheel nut	Zinc-plated Steel

FIVC Globe Valve

Grey Cast Iron – PN 16 – Rising Stem – EN 1092-2



Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Disc: Grey Cast Iron
- Stem: Stainless Steel
- Handwheel: Grey Cast Iron
- USP: Compact settlement
- Standard: DIN 3356
- Dimensions: BS EN 558-1 (series 1)

Field of applications

- Max. temperature: 120 °C (200 °C at 10 bar)
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

FGL series

Description

FIVC Globe Valve is designed for isolating and opening the flow in the pipeline.

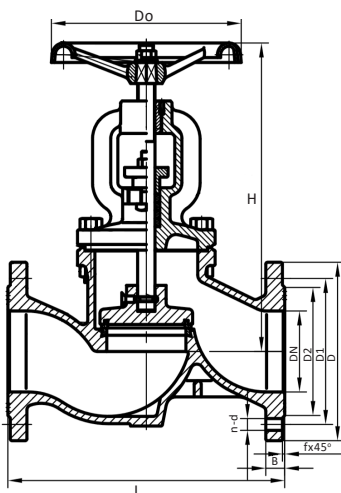
With its robust construction and compact settlement, the FIVC Globe Valve does provide the best solution for the regulation of the flow.

The valve can be used for Water and Steam.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

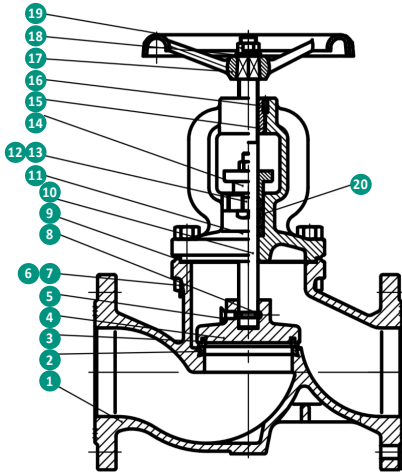
Product code	Size (DN)	L*	D*	D1*	D2*	B*	f*	n-d*	Do*	H*	Kg
FGL065C16RB230	65	290	185	145	118	20	3	4-19	200	293	-
FGL080C16RB230	80	310	200	160	132	22	3	8-19	200	341	-
FGL100C16RB230	100	350	220	180	156	24	3	8-19	240	381	-
FGL125C16RB230	125	400	250	210	184	26	3	8-19	280	419	-
FGL150C16RB230	150	480	285	240	211	26	3	8-23	315	485	-
FGL200C16RB230	200	600	340	295	266	30	3	12-23	360	569	-
FGL250C16RB230	250	730	405	355	319	32	3	12-28	400	634	-
FGL300C16RB230	300	850	460	410	370	32	4	12-28	400	801	-

*Dimensions are in millimeters

FIVC Globe Valve

Grey Cast Iron – PN 16 – Rising Stem – EN 1092-2

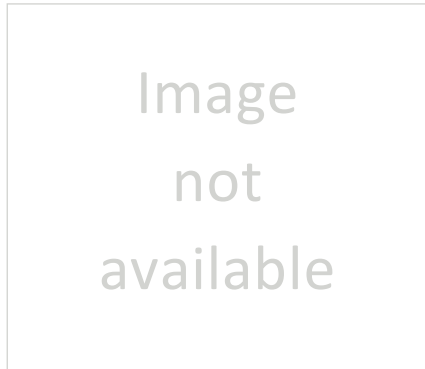
Product Specification



N°	Name	Material
1	Body	Grey Cast Iron
2	Body seat ring	Stainless Steel
3	Disc seat ring	Stainless Steel
4	Disc	Grey Cast Iron
5	Screw	Steel
6	Nut	Steel
7	Bolt	Steel
8	Steel ball	Steel
9	Gasket	Graphite
10	Stem	Stainless Steel
11	Bonnet	Grey Cast Iron
12	Bolt	Steel
13	Nut	Steel
14	Gland follower	Ductile Iron
15	Stem nut	Cast Brass
16	Screw	Steel
17	Handwheel	Grey Cast Iron
18	Washer	Steel
19	Nut	Steel
20	Packing	Graphite

FIVC Globe Valve

Grey Cast Iron – PN 16 – Rising Stem – EN 1092-2



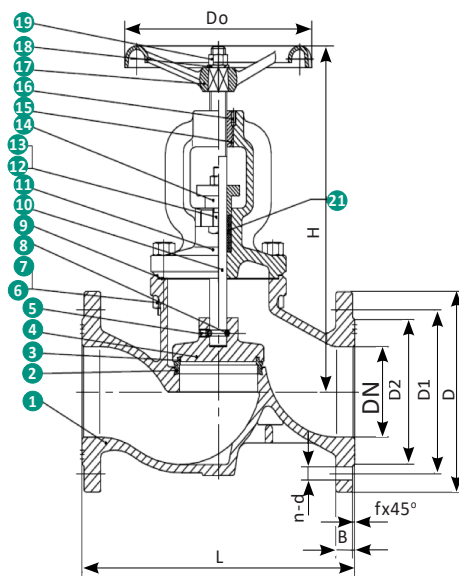
FGL series

Description

FIVC Globe Valve is designed for isolating and opening the flow in the pipeline.

With its robust construction and compact settlement, the FIVC Globe Valve does provide the best solution for the regulation of the flow. The valve can be used for water and steam respectively.

Dimensions



Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Disc: Grey Cast Iron
- Stem: Stainless Steel
- Handwheel: Grey Cast Iron
- Standard: Design acc. to DIN 3356
- Dimensions: Face-to-Face acc. to EN 558-1 (series 1)

Field of applications

- Temperature range: -10 to 200 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014, and is CE marked.

Product Information

Product code	Size (DN)	L*	D*	D1*	D2*	B*	f*	n-d*	Do*	H*	Kg
FGL065C16RB219	65	219	185	145	118	20	3	4-19	200	293	19.8
FGL080C16RB219	80	310	200	160	132	22	3	8-19	200	341	27.9
FGL100C16RB219	100	350	220	180	156	24	3	8-19	240	381	35.4
FGL125C16RB219	125	400	250	210	184	26	3	8-19	280	419	61.0
FGL150C16RB219	150	480	285	240	211	26	3	8-23	315	485	78.0
FGL200C16RB219	200	600	340	295	266	30	3	12-23	360	569	15,2
FGL250C16RB219	250	730	405	355	319	32	3	12-28	400	634	212.5
FGL300C16RB219	300	850	460	410	370	32	4	12-28	400	801	321

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Grey Cast Iron GG 25 DIN 1691
2	Body seat ring	Stainless Steel X5CrNi189 DIN 17440
3	Disc seat ring	Stainless Steel X5CrNi189 DIN 17440
4	Disc	Grey Cast Iron GG 25 DIN 1691
5	Screw	Steel RSt37-2 DIN 17100
6	Nut	Steel RSt37-2 DIN 17100
7	Bolt	Steel RSt37-2 DIN 17100
8	Steel ball	Steel 100Cr6 DIN 17230
9	Gasket	Graphite
10	Stem	Stainless Steel X20Cr13 DIN 17440
11	Bonnet	Grey Cast Iron GG 25 DIN 1691
12	Bolt	Steel RSt37-2 DIN 17100
13	Nut	Steel RSt37-2 DIN 17100
14	Glander follower	Grey Cast Iron GG 25 DIN 1691
15	Stem nut	Brass CuZn39Pb2 DIN 17660
16	Screw	Steel RSt37-2 DIN 17100
17	Handwheel	Grey Cast Iron GG 25 DIN 1691
18	Washer	Steel RSt37-2 DIN 17100
19	Nut	Steel RSt37-2 DIN 17100
20	Packing	Graphite

FIVC Globe Valve

Grey Cast Iron – PN 16 – Rising Stem – EN 1092-2



FGL series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Standard: Design acc. to DIN 3356
- Dimensions: Face-to-Face acc. to EN 558-1 (series 1)

Field of applications

- Temperature range: -10 to 300 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

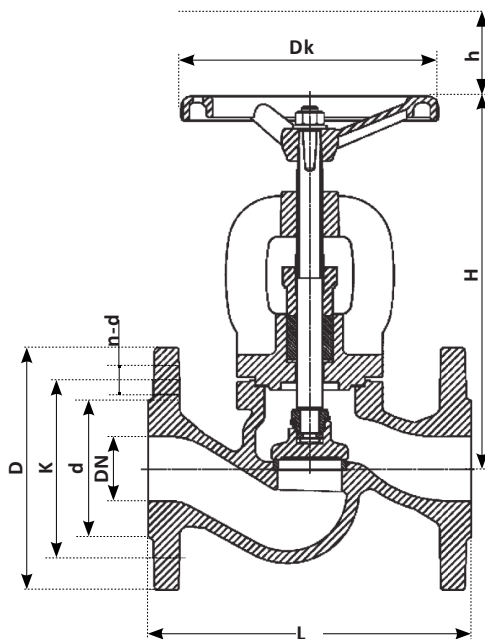
FIVC Globe Valve is designed for isolating and opening the flow in the pipeline.

With its robust construction and compact settlement, the FIVC Globe Valve does provide the best solution for the regulation of the flow.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

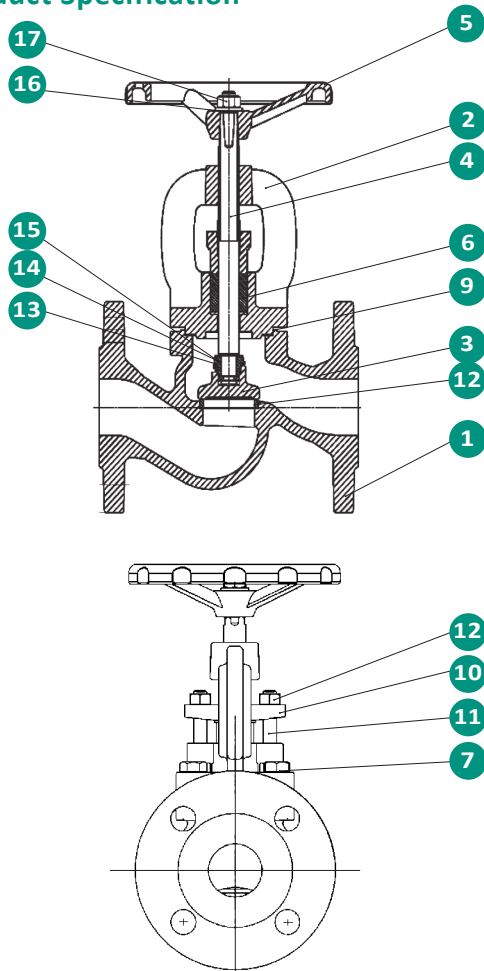
Product code	Size (DN)	D*	d*	K*	nxdo*	Dk*	h*	L*	H*	Kv (m ³ /h)	Kg
FGL065C16RB04	65	185	118	145	4x19	180	35	290	260	79	17.3
FGL080C16RB04	80	200	132	160	8x19	200	41	310	291	115	22.7
FGL100C16RB04	100	220	156	180	8x19	250	31	350	338	181	35.8
FGL125C16RB04	125	250	284	210	8x19	250	48	400	373	225	52.8
FGL150C16RB04	150	285	211	240	8x23	320	54	480	429	364	74.2
FGL200C16RB04	200	340	266	295	12x23	360	77	600	529	690	126
FGL250C16RB04	250	405	319	355	12x28	360	120	730	638	1010	200
FGL300C16RB04	300	460	370	410	12x28	500	120	850	710	1460	315

*Dimensions are in millimeters

FIVC Globe Valve

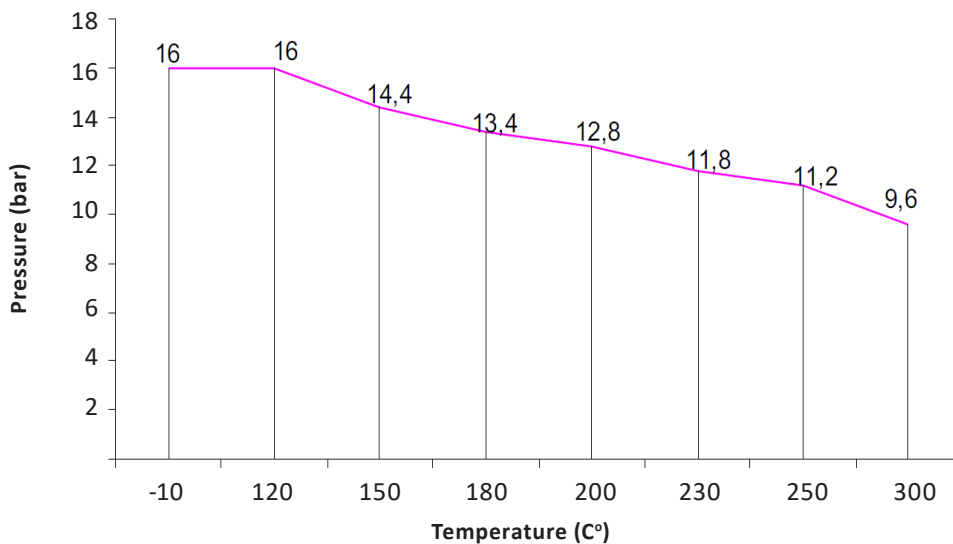
Grey Cast Iron – PN 16 – Rising Stem – EN 1092-2

Product Specification



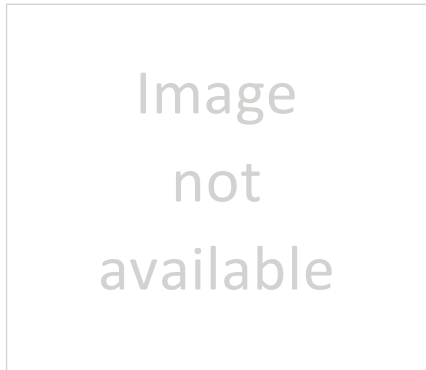
N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
1.2	Seat ring	Stainless Steel X12Cr13 1.4006
2	Bonnet	Grey Cast Iron EN-GJL-250 JL 1040
3	Disc	Stainless Steel X20Cr13 1.4021
4	Stem	Stainless Steel X20Cr13 1.4021
5	Handwheel	Ductile Iron EN-GJS-500-7 JS 1050
6	Gland packing	Graphite
7	Hexagon bolt	8.8
9	Gasket	NiCr + Graphite
10	Gland	Grey Cast Iron EN-GJL-250 JL 1040
11	T-bolt	8 + Zinc Galvanized
12	Nut	8 + Zinc Galvanized
13	Ring	Stainless Steel X20Cr13 1.4021
14	Washer	Stainless Steel X6CrNiTi18-10 1.4541
15	Screw	Stainless Steel X20Cr13 1.4021
16	Washer	Carbon steel + Zinc Galvanized
17	Nut	8 + Zinc Galvanized

Pressure-Temperature Ratings



FIVC Globe Valve

Ductile Iron – PN 25 – Rising Stem – EN 1092-2



FGL series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Standard: Design acc. to BS EN 13789
- Dimensions: Face-to-Face acc. to EN 558-1 (series 10)

Field of applications

- Max. temperature: 230 °C
 - Max. working pressure: 25 bar
- Petrochemical industry
 - Irrigation systems
 - Mining and infrastructure industries
 - Shipyard industry
 - Compressed air
 - Textile industry
 - Mechanical industry
 - Steam applications
 - Other various industries

Description

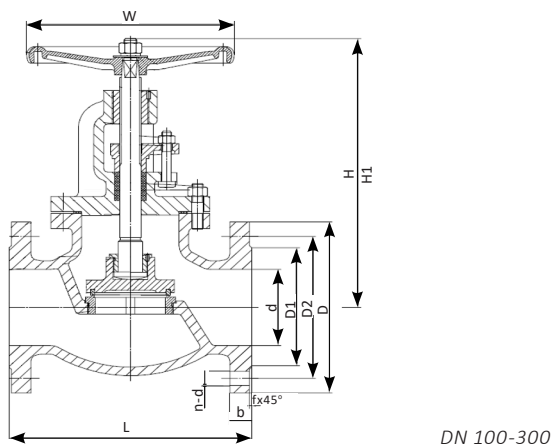
FIVC Globe Valve is designed for isolating and opening the flow in the pipeline. With its robust construction and compact settlement, the FIVC Globe Valve does provide the best solution for the regulation of the flow. The valve can be used for Water, Oil, and Gas respectively.

Declaration

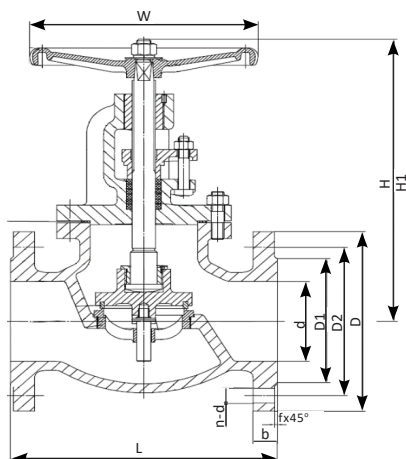
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions

DN 65-80



DN 100-300



Product Information

Product code	Size (DN)	L*	D*	D1*	D2*	b*	n-d*	f*	H*	H1*	W*	Kg
FGL065N25RB211	63.5	215.9	185	118	145	20	8-19	3	310	339	200	21
FGL080N25RB211	78	241.3	200	132	160	22	8-19	3	333	366	200	28
FGL100N25RB211	100	292	235	190	156	24	8-23	3	353	390	250	42
FGL125N25RB211	125	330	270	220	184	26	8-28	3	388	437	300	70
FGL150N25RB211	150	356	300	250	211	26	8-28	3	427	477	300	80
FGL200N25RB211	200	495	360	310	274	30	12-28	3	476	542	360	135
FGL250N25RB211	250	622	425	370	330	32	12-31	3	539	614	450	215
FGL300N25RB211	300	698	485	430	389	32	16-31	4	611	697	500	318

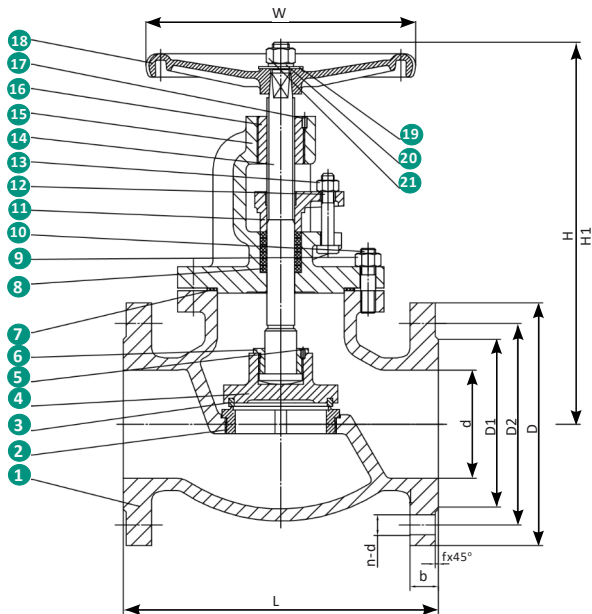
*Dimensions are in millimeters

FIVC Globe Valve

Ductile Iron – PN 25 – Rising Stem – EN 1092-2

Dimensions

DN 65-80

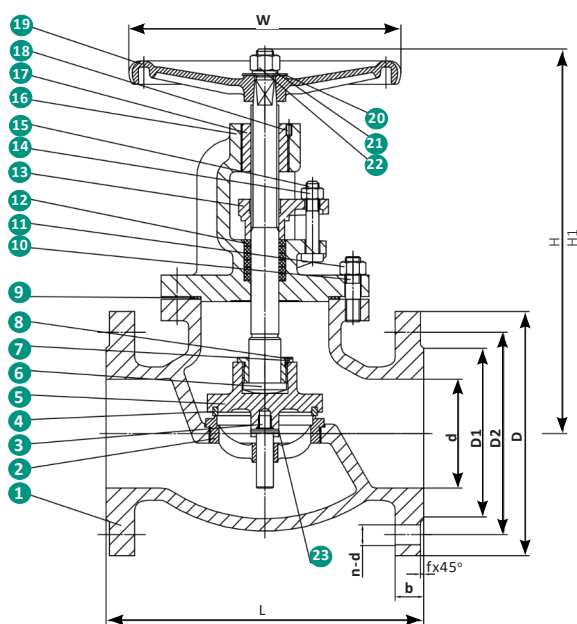


Product Specification

DN 65-80

N°	Name	Material
1	Body	Ductile Iron EN-GJS-450-10
2	Seat	Bronze CC491K EN 1982
3	Disc ring	Bronze CC491K EN 1982
4	Disc	Ductile Iron EN-GJS-450-10
5	Screw	Steel EN 10025-2 S235 JR
6	Disc cover	Ductile Iron EN-GJS-450-10
7	Gasket	Graphite + Steel
8	Packing	Graphite
9	Nut	Steel EN 10025-2 S235 JR
10	Stud	Steel EN 10025-2 S235 JR
11	Gland flange	Ductile Iron EN-GJS-450-10
12	Square bolt	Steel EN 10025-2 S235 JR
13	Nut	Steel EN 10025-2 S235 JR
14	Stem	EN 10088-1x6 CR 13
15	Bonnet	Ductile Iron EN-GJS-450-10
16	Stem nut	Brass
17	Screw	Steel EN 10025-2 S235 JR
18	Handwheel	Ductile Iron EN-GJS-450-10
19	Nameplate	Aluminium
20	Washer	Steel EN 10025-2 S235 JR
21	Nut	Steel EN 10025-2 S235 JR

DN 100-300



DN 100-300

N°	Name	Material
1	Body	Ductile Iron EN-GJS-450-10
2	Seat	Bronze CC491K EN 1982
3	Disc guide	Stainless Steel EN 10088-1x6 CR13
4	Disc ring	Bronze CC491K EN 1982
5	Disc	Ductile Iron EN-GJS-450-10
6	Stem	EN 10088-1x6 CR13
7	Screw	Steel EN 10025-2 S235 JR
8	Disc cover	Ductile Iron EN-GJS-450-10
9	Gasket	Graphite + Steel
10	Stud	Steel EN 10025-2 S235 JR
11	Nut	Steel EN 10025-2 S235 JR
12	Packing	Graphite
13	Gland flange	Ductile Iron EN-GJS-450-10
14	Nut	Steel EN 10025-2 S235 JR
15	Square bolt	Steel EN 10025-2 S235 JR
16	Bonnet	Ductile Iron EN-GJS-450-10
17	Stem nut	Brass
18	Screw	Steel EN 10025-2 S235 JR
19	Handwheel	Ductile Iron EN-GJS-450-10
20	Nameplate	Aluminium
21	Washer	Steel EN 10025-2 S235 JR
22	Nut	Steel EN 10025-2 S235 JR
23	Pin	Stainless Steel SS 304

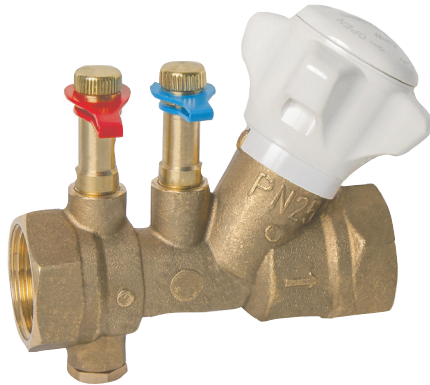


FIVC Static Balancing Valve

Fixed Orifice
Variable Orifice

FIVC Static Balancing Valve

DZR Brass – PN 25 – Fixed Orifice – ISO 228



FSB series

Technical data

Main features and materials

- Body: DZR Brass CW602N
- Bonnet: DZR Brass CW602N
- Disc: DZR Brass CW602N
- Stem: DZR Brass CW602N
- Handwheel: ABS plastic
- USP: Flowrate measurement incl. pressure probes
Shut-off function
Pre-setting possibility
Sensor holder
(Needle $\varnothing 3\text{mm}$ and length 30-40mm)

Field of applications

- Temperature range: -5 to 110 °C
- Max. working pressure: 25 bar
- Hot and cold water plants
- Compressed air plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated fixed orifice. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings. Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon.

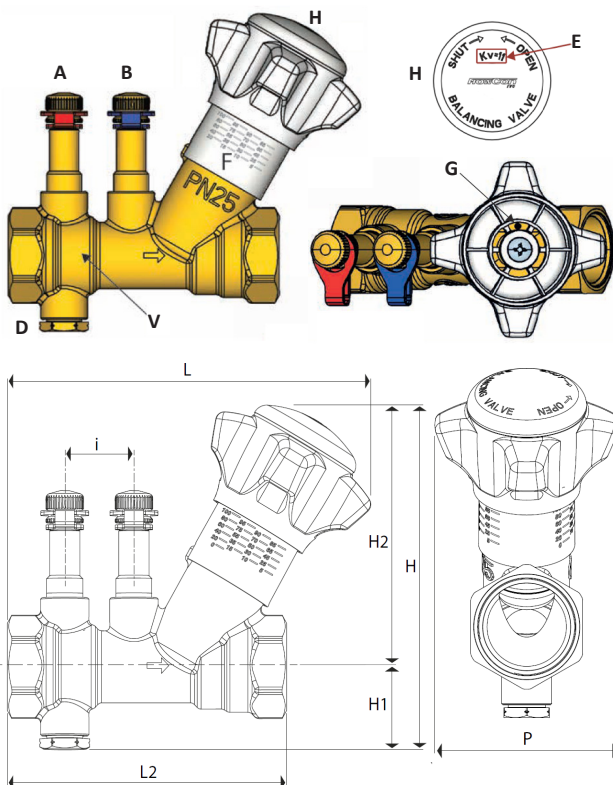
The valve is equipped with 1/4" F drain connection.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	L2*	H1*	H2*	H*	I*	P*	Kg
FSB015D25GF01	15	131	95	25	94	119	25	64	0.695
FSB020D25GF01	20	131	101	28	90	118	25	64	0.715
FSB025D25GF01	25	131	110	32	90	122	25	64	0.758
FSB032D25GF01	32	137	120	35	94	129	25	64	0.939
FSB040D25GF01	40	163	140	39	127	166	25	64	1.588
FSB050D25GF01	50	169	154	45	127	172	25	70	1.865

*Dimensions are in millimeters

Product Specification

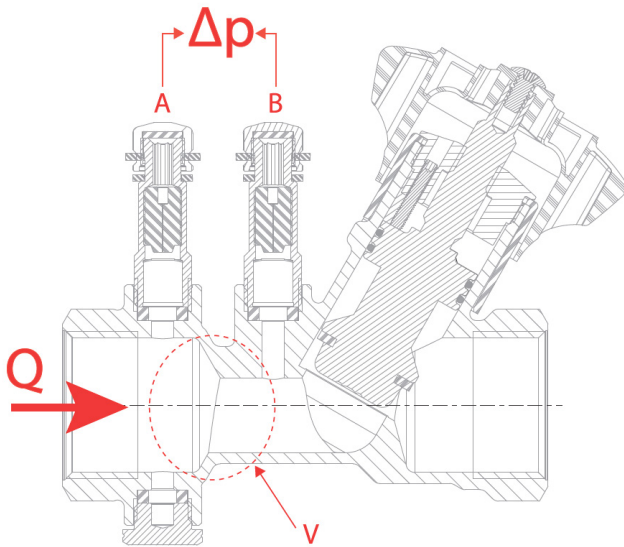
N°	Name	Material
1	Body	DZR Brass CW602N
2	Bonnet	DZR Brass CW602N
3	Disc	DZR Brass CW602N
4	Stem	DZR Brass CW602N
5	Handwheel	ABS plastic, white color

L°	Component	L°	Component
A	High pressure probes	F	Scale for 0-100% setting w. 20 positions
B	Low pressure probes	G	Pre-setting screw (limiting the stroke)
C	ABS Handwheel	H	Removable head (to do pre-setting) w. imprinted Venturi Kv values
D	Drain (1/4" F)		
E	Kv of the venturi flow meter	V	Venturi flow meter

FIVC Static Balancing Valve

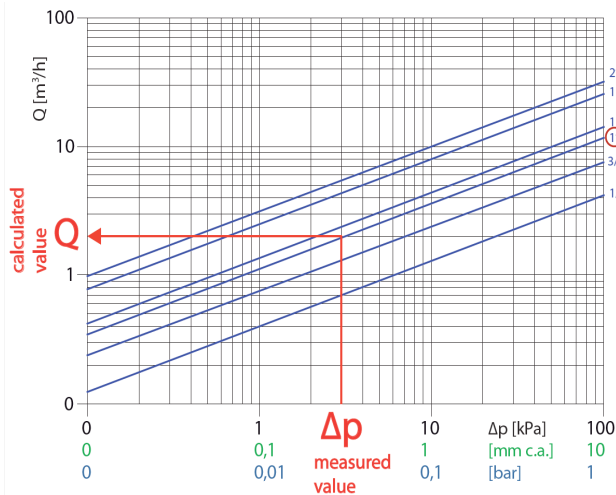
DZR Brass – PN 25 – Fixed Orifice – ISO 228

Flowrate Calculation



Kv (m ³ /h)		Flowrate (l/h)		
Kv _{Venturi flow}	Kv _{Complete valve}	0.5 kPa*	3 kPa*	10 kPa**
4.0	2.7	280	690	860
7.5	5.5	530	1300	1740
11.0	7.0	780	1900	2220
13.5	9.5	950	2340	3000
24	18.5	1700	4160	5850
31	25.5	2190	5370	8065

Flowrate values related to differential pressure on Venturi flowmeter (*) or for the complete valve (**)



FIVC Static Balancing Valve is equipped with a flowmeter having calibrated orifice (*venturi principle*), that is with fixed Kv values, that through the pressure outlets (*cf. figure on page 1*) and a common differential manometer, permits to calculate the really circulating flow rate.

The flow rate Q can be determined with the following formula:

$$Q = K_{v_{venturi}} \cdot \sqrt{\Delta p}$$

Refer to the $K_{v_{venturi}}$ values included in the table:

Δp has to be measured through the pressure outlets.

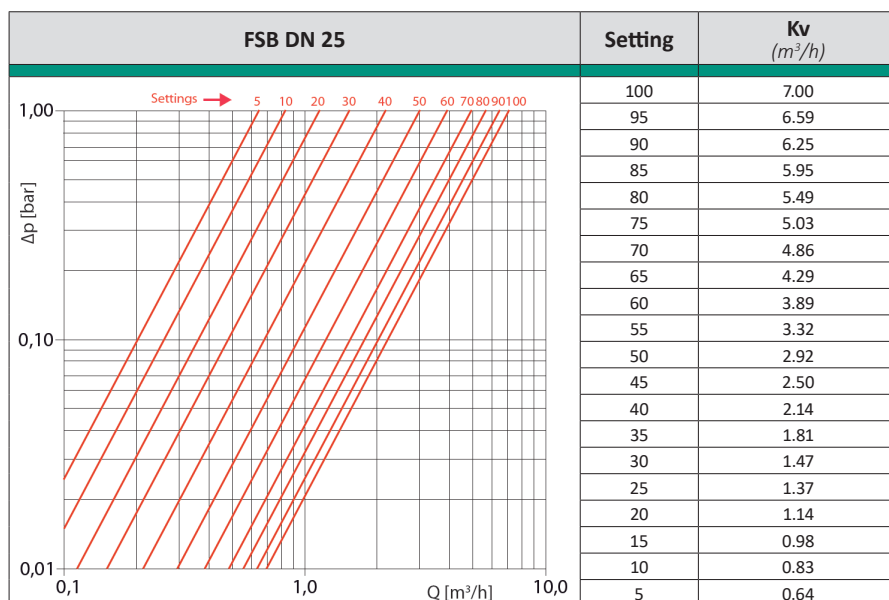
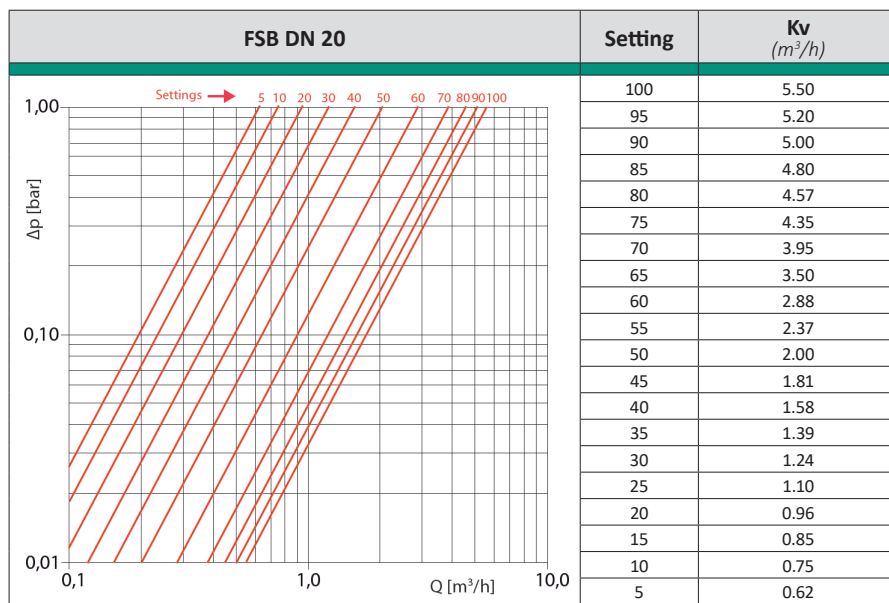
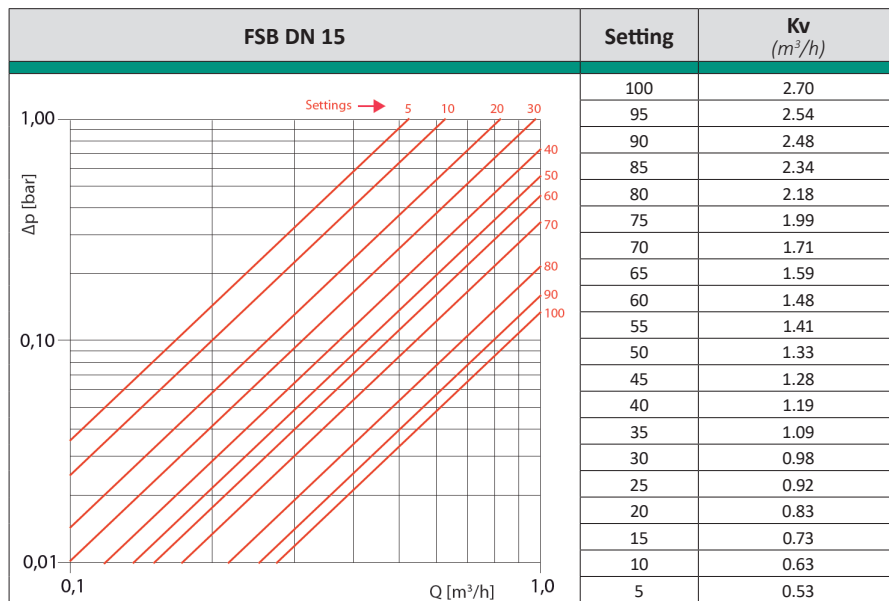
Use the following formula for the liquids having density ρ different from water:

$$Q = K_{v_{venturi}} \cdot \sqrt{\Delta p / \rho}$$

FIVC Static Balancing Valve

DZR Brass – PN 25 – Fixed Orifice – ISO 228

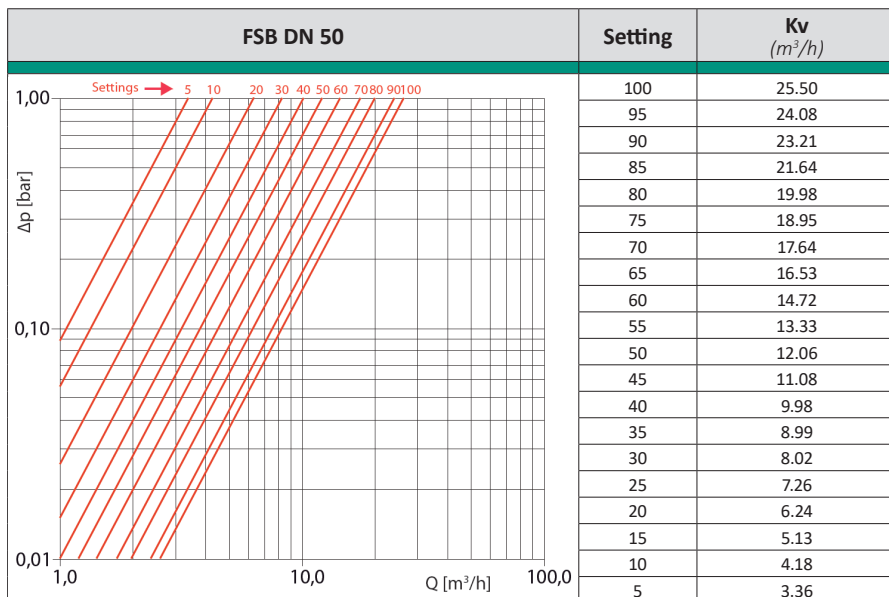
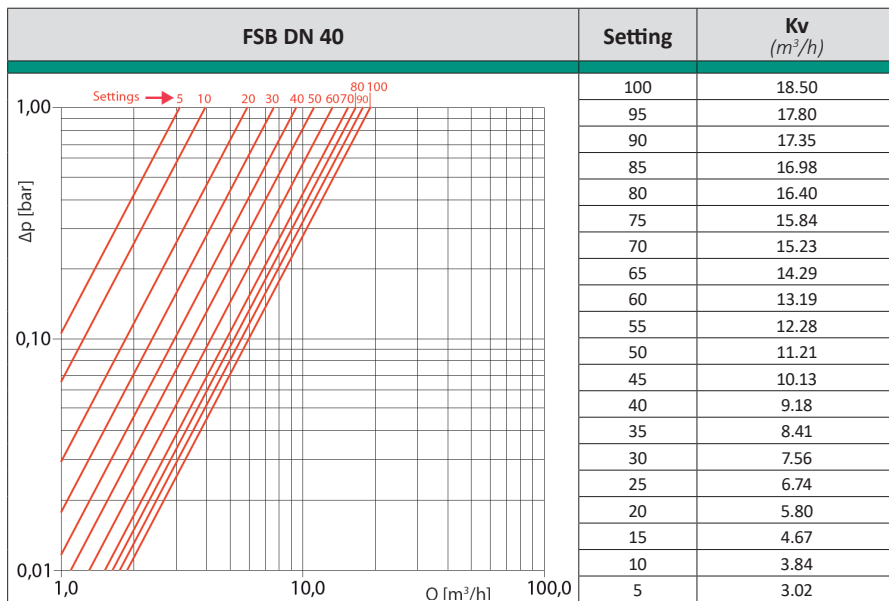
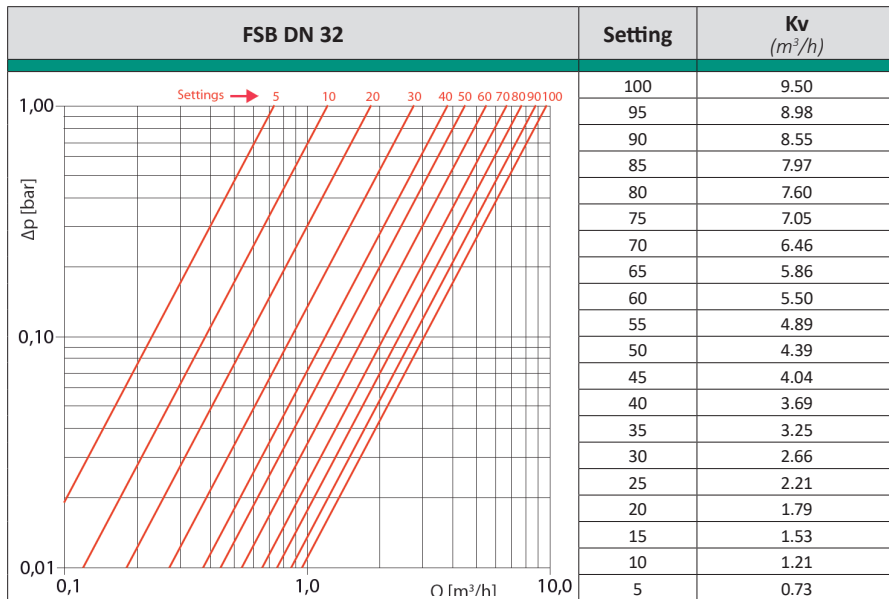
Kv Values (m³/h)



FIVC Static Balancing Valve

DZR Brass – PN 25 – Fixed Orifice – ISO 228

Kv Values (m³/h)



FIVC Static Balancing Valve

Bronze – PN 25 – Fixed Orifice – WRAS – ISO 228



FSB series

Technical data

Main features and materials

- Body: Bronze CC491K
- Bonnet: DZR Brass CW602N
- Disc: DZR Brass CW602N
- Stem: DZR Brass CW602N
- Handwheel: PA, Black coated
- USP: WRAS approval
Compact settlement
Environment-friendly
- Standard: BS 7350

Field of applications

- Max. temperature: 120 °C
- Max. working pressure: 25 bar
- Hot and cold water plants
- Compressed air plants
- Heat and refrigerating
- Engineering and air-conditioning

Description

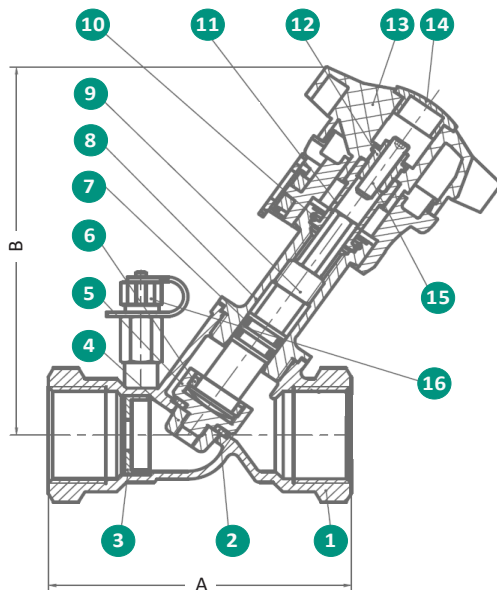
FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated fixed orifice. The valve offers an accuracy of ± 5 pct. on all settings, for precise flow regulation. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings. Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon. The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).



Dimensions



Product Information

Product code	Size (DN)	A*	B*	Kg
FSB015O25GF21	15	87	105	0.58
FSB020O25GF21	20	96	106	0.65
FSB025O25GF21	25	100	127	0.89
FSB032O25GF21	32	114	128	1.11
FSB040O25GF21	40	125	143	1.46
FSB050O25GF21	50	146	144	1.98

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K BS EN 1982
2	Disc face	DN 15-20: DZR Brass CW602N BS EN 12164 DN 25-50: PTFE
3	Orifice plate	DZR Brass CW602N BS EN 12164
4	Nut	DZR Brass CW602N BS EN 12164
5	Disc	DZR Brass CW602N BS EN 12164
6	Disc retaining ring	DZR Brass CW602N BS EN 12164
7	O-Ring	NBR
8	Bonnet	DN 15-32: DZR Brass CW602N BS EN 12164 DN 40-50: Bronze CC491K BS EN 1982
9	Stem	DZR Brass CW602N BS EN 12164
10	Retainer ring	Stainless Steel SS 304
11	Sleeve	Brass CW617N BS EN 12164
12	Screw	Brass CW617N BS EN 12164
13	Handwheel	PA
14	Cap	PA
15	Screw	Stainless Steel SS 304
16	Test points	DZR Brass CW602N BS EN 12164
15	Screw	Stainless Steel SS 304
16	Test points	DZR Brass CW602N BS EN 12164

FIVC Static Balancing Valve

Bronze – PN 25 – Fixed Orifice – WRAS – ISO 228

Kv Values (m³/h)

FSB DN 15	Setting	Kv (m ³ /h)
<p>Linear</p>	1	0.3
	2	0.6
	3	1.2
	4	1.7

FSB DN 20	Setting	Kv (m ³ /h)
<p>Linear</p>	1	0.4
	2	0.9
	3	2.3
	4	3.3

FSB DN 25	Setting	Kv (m ³ /h)
<p>Linear</p>	1	0.7
	2	1.6
	3	2.8
	4	4.6

FIVC Static Balancing Valve

Bronze – PN 25 – Fixed Orifice – WRAS – ISO 228

Kv Values (m³/h)

FSB DN 32	Setting	Kv (m ³ /h)
<p>Linear</p>	1	1.3
	2	4
	3	8.5
	4	10.5

FSB DN 40	Setting	Kv (m ³ /h)
<p>Linear</p>	1	2.3
	2	5.3
	3	13.7
	4	16.8

FSB DN 50	Setting	Kv (m ³ /h)
<p>Linear</p>	1	2.79
	2	7.5
	3	20.63
	4	27.37

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2



FSB series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Disc: Composite material
- Stem: DZR Brass
- Handwheel: Polyamid
- USP: Environment-friendly
Reliable

Field of applications

- Temperature range: -10 to 120°C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

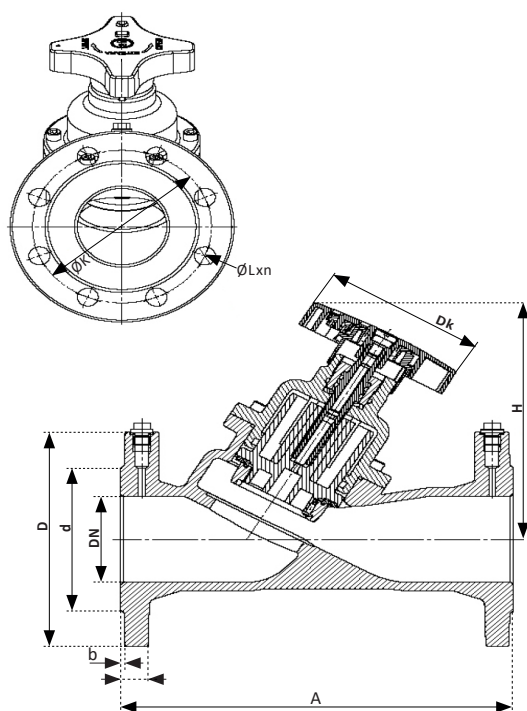
FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated variable orifice. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings.

Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	A*	D*	K*	b*	c*	d*	Dk*	H*	L*	Kv (m³/h)	Kg
FSB065C16GV01	65	290	185	145	3	20	118	130	220	19	88.8	13.5
FSB080C16GV01	80	310	200	160	3	22	132	130	220	19	113.4	17.8
FSB100C16GV01	100	350	220	180	3	24	156	130	240	19	184.7	22.7
FSB125C16GV01	125	400	250	210	3	26	184	130	260	19	285.1	34.0
FSB150C16GV01	150	480	285	240	3	26	211	130	285	23	390.2	48.5
FSB200C16GV01	200	600	340	295	3	30	266	310	480	23	710	114.5
FSB250C16GV01	250	730	405	355	3	32	319	310	525	28		159
FSB300C16GV01	300	850	460	410	4	32	370	310	535	28		210.5

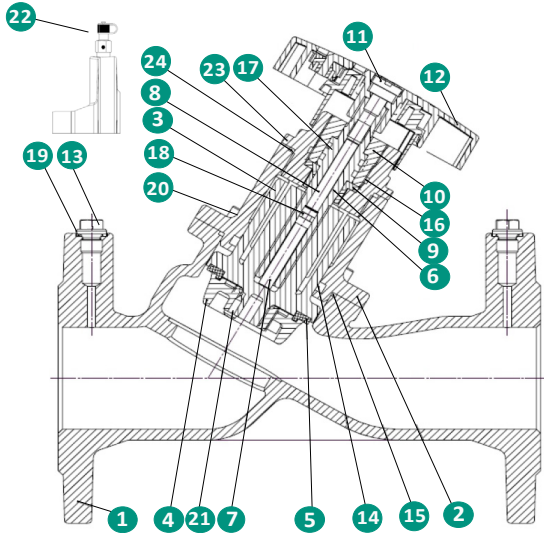
*Dimensions are in millimeters

FIVC Static Balancing Valve

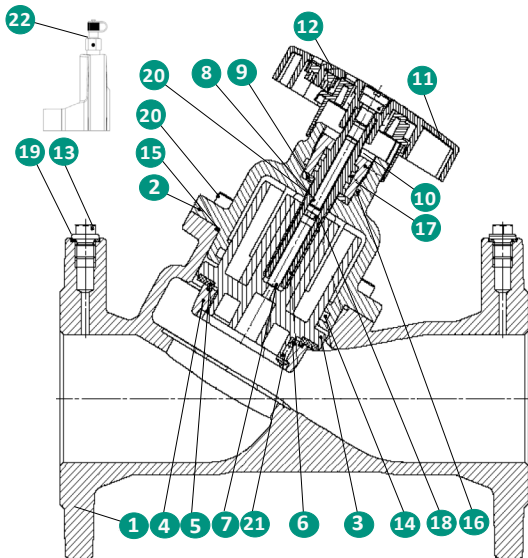
Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Product Specification

DN 65



DN 80-150

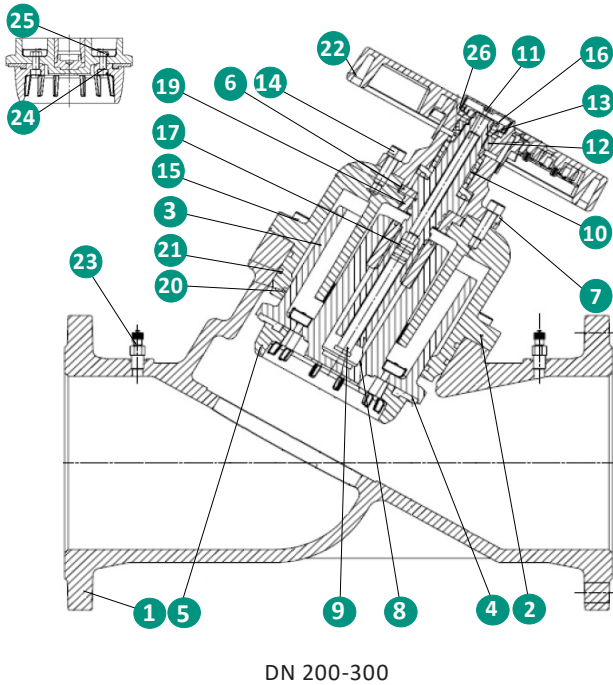


N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2, 23	Bonnet	Grey Cast Iron EN-GJL-250 JL 1040
3	Disc	Composite Material
4	Control ring	Composite Material
5	Disc gasket	EPDM
6	Stem	Brass DZR CuZn36Pb2As
7	Open limiter	Brass DZR CuZn36Pb2As
8	Tap screw	Brass CuZn37
9	Washer	Brass DZR CuZn36Pb2As
10	Tap screw	Brass DZR CuZn36Pb2As
11	Screw	Brass CuZn37
12	Hand wheel	Polyamid PA 6.6
13*	Plug	C35E
14-18, 24	Stem O-Ring	EPDM
19	Plug sealing	Carbamide rubber
20	Allen screw	8.8A2A
21	Self-tapping screw	A2
22	Pressure tap	G 1/4"

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Bonnet	Grey Cast Iron EN-GJ5-500-7 JS 1050
3	Disc	Composite Material
4	Disc gasket	EPDM
5	Control ring	Composite material
6	Bush	Brass DZR CuZn36Pb2As
7	Top cover	Grey Cast Iron EN-GJL-250 JL 1040
8	Stem	DZR Brass CuZn36Pb2As
9	Open limiter	DZR Brass CuZn36Pb2As
10	Guide bush	Brass CuZn40Pb2
11	Tap Screw	Stainless Steel X5CrNi18-10
12	Hub	Brass CuZn40Pb2
13	Washer	Brass CuZn40Pb2
14	Allen screw	8.8 A2A
15	Allen screw	8.8 A2A
16	Nut	5A 2A
17-21	Stem O-Ring	EPDM
22	Handwheel	Polyamid PA 6.6
23	Pressure tap	G 1/4"
24	Allen screw	A2-70
25	Nut	A2-70
26	Stem bush	Brass CuZn40Pb2
27*	Plug	Medium-Carbon Steel C35E
28*	Plug Sealing	Carbamide rubber

Kv Values for Specific Adjustments

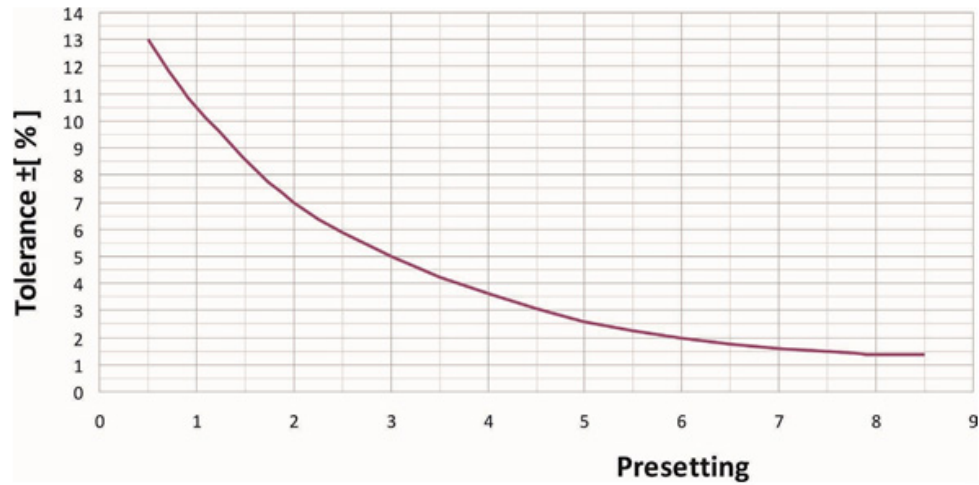
n	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
0.5	12.5	5.9	5.6	8.3	7.9	27.5	43.5	44.9
1	21.9	7.9	9.6	13.0	14.8	38.6	62.3	57.1
2	31.1	11.8	16.6	23.7	29.7	54.6	87.3	89.8
3	40.1	16.7	34.0	51.2	83.7	99.9	163.9	140.7
4	49.3	31.2	71.4	106.5	183.7	216.2	345.3	331.7
5	57.5	65.0	107.4	160.9	247.1	341.2	543.3	634.1
6	71.8	89.3	135.0	201.9	298.2	430.1	694.0	825.1
7	80.4	102.7	159.9	239.8	342.2	507.6	823.7	1017.8
8	88.8	113.4	177.9	270.8	376.8	560.8	925.3	1169.7
8.5	-	-	184.7	285.1	390.2	590.0	974.4	1229.7
9	-	-	-	-	-	619.3	1022.4	1285.1
10	-	-	-	-	-	667.2	1110.2	1394.1
11	-	-	-	-	-	710.0	1187.5	1504.1

FIVC Static Balancing Valve

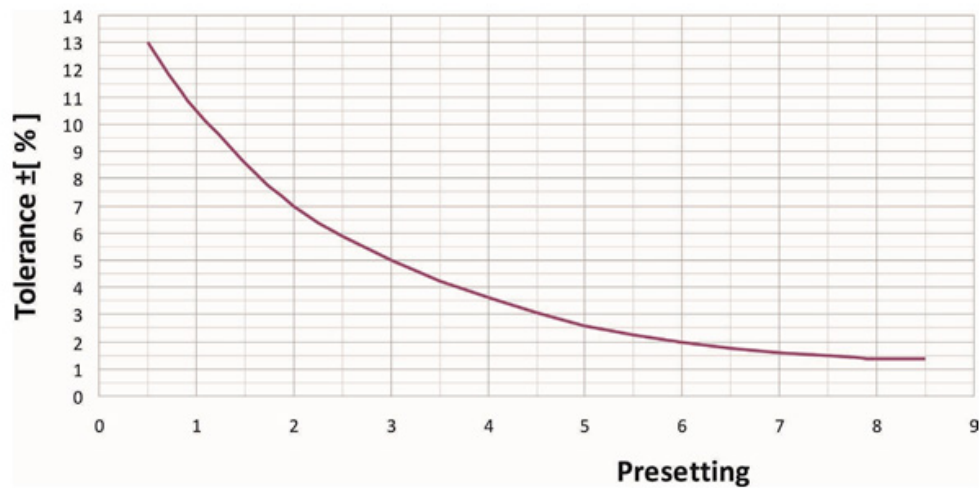
Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Flow Tolerance depending on the presetting

DN 65-150



DN 200-300



FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

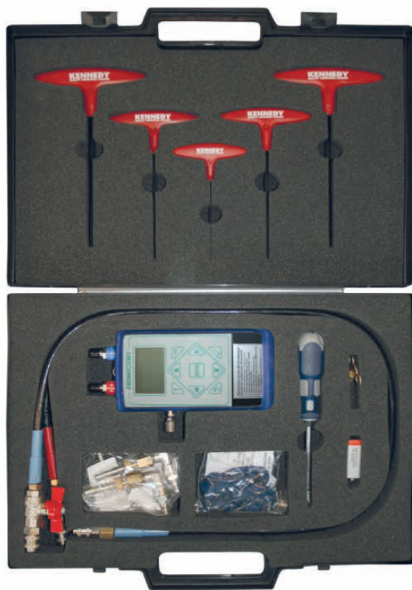
Additional Equipment



Standard FIVC Static Balancing Valve is provided with threaded holes G 1/4" on each flange with plugs screwed in.

As additional service and on customer request, the plugs can be replaced with measuring nipples illustrated at the picture on the left.

Digital Measuring Computer



As an additional equipment, FlowCon IVC does provide the FIVC Digital Measuring Computer on customer request. This computer can be used to take measurements in the system. It enables pressure or temperature drop measurements and recording possibilities.

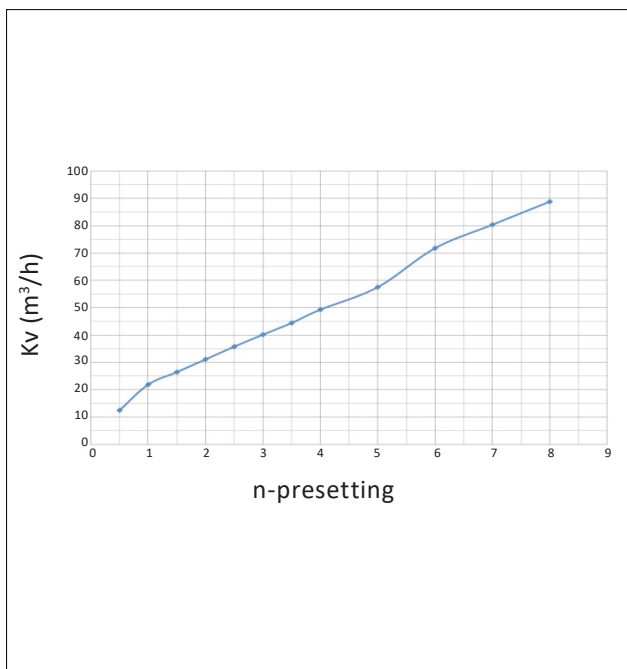
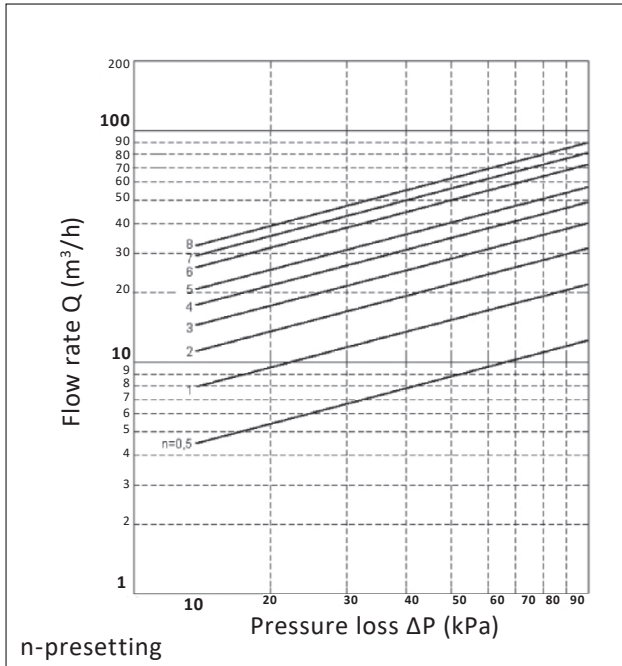
Please contact FlowCon IVC for further information.



FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 65

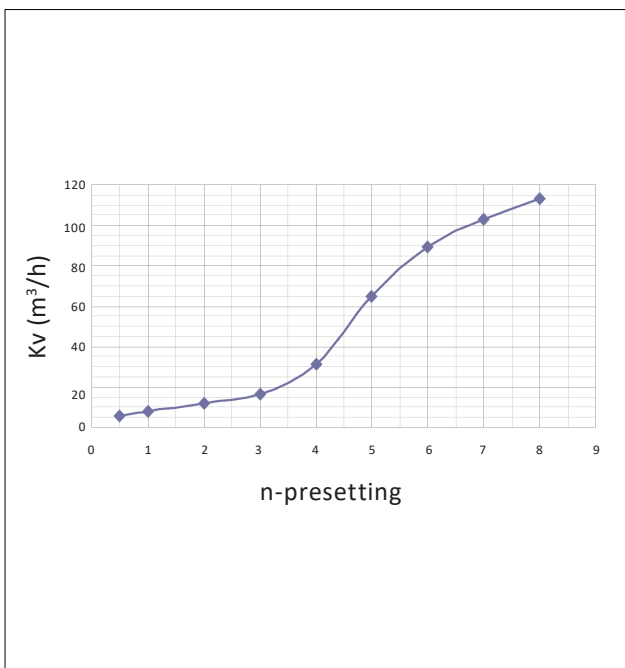
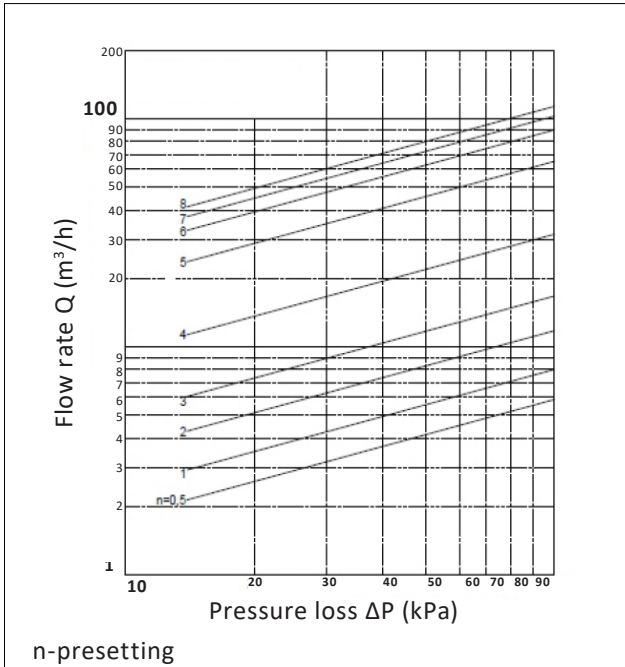


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	12.5	3.3	42.6	5.7	67.6
1.0	21.9	3.4	43.5	5.8	69.1
1.1	22.9	3.5	44.4	5.9	70.5
1.2	23.9	3.6	45.4	6.0	71.8
1.3	24.7	3.7	46.4	6.1	72.9
1.4	25.6	3.8	47.4	6.2	73.9
1.5	26.4	3.9	48.4	6.3	74.9
1.6	27.3	4.0	49.3	6.4	75.8
1.7	28.3	4.1	50.1	6.5	76.6
1.8	29.2	4.2	50.9	6.6	77.4
1.9	30.1	4.3	51.7	6.7	78.2
2.0	31.1	4.4	52.5	6.8	78.9
2.1	32.0	4.5	53.2	6.9	79.6
2.2	33.0	4.6	54.0	7.0	80.4
2.3	33.9	4.7	54.8	7.1	81.1
2.4	34.8	4.8	55.6	7.2	81.8
2.5	35.7	4.9	56.5	7.3	82.6
2.6	36.6	5.0	57.5	7.4	83.3
2.7	37.5	5.1	58.6	7.5	84.1
2.8	38.4	5.2	59.9	7.6	84.9
2.9	39.3	5.3	61.3	7.7	85.8
3.0	40.1	5.4	62.8	7.8	86.7
3.1	41.0	5.5	64.4	7.9	87.7
3.2	41.8	5.6	66.0	8.0	88.8

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 80

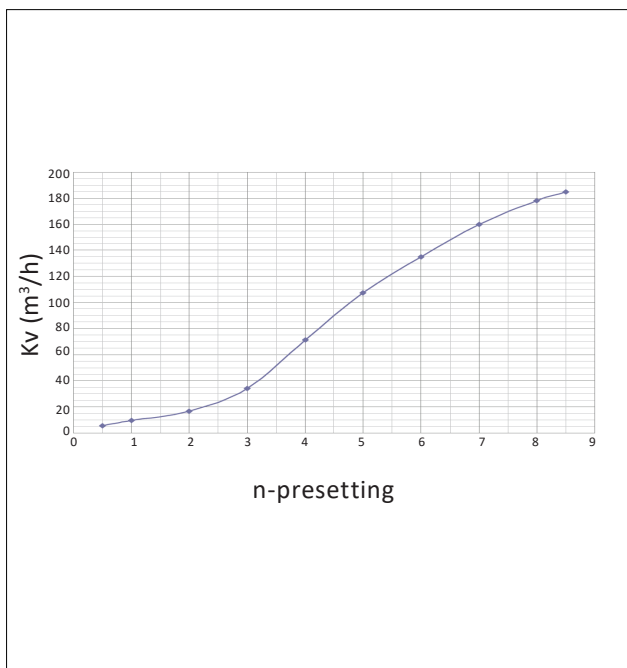
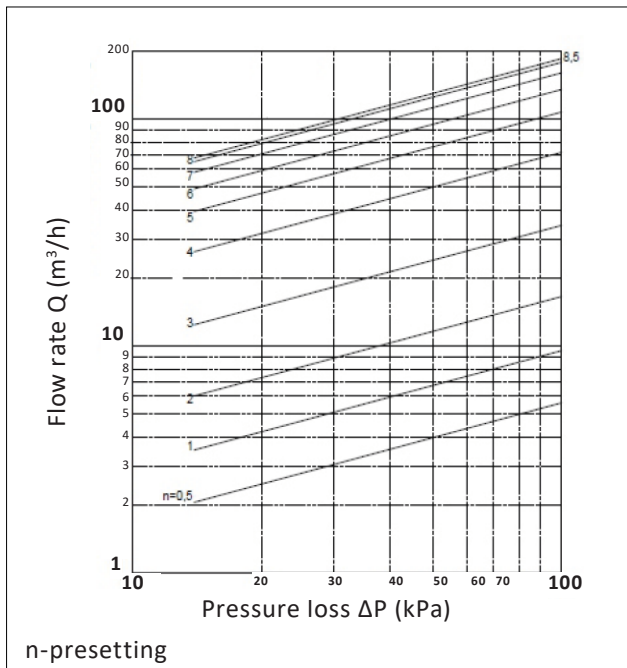


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	5.9	3.3	19.4	5.7	83.8
1.0	7.9	3.4	20.6	5.8	85.8
1.1	8.4	3.5	21.9	5.9	87.6
1.2	8.7	3.6	23.4	6.0	89.3
1.3	9.1	3.7	25.0	6.1	90.9
1.4	9.5	3.8	26.9	6.2	92.5
1.5	9.9	3.9	28.9	6.3	93.9
1.6	10.3	4.0	31.2	6.4	95.3
1.7	10.7	4.1	33.6	6.5	96.6
1.8	11.0	4.2	36.3	6.6	97.9
1.9	11.4	4.3	39.2	6.7	99.1
2.0	11.8	4.4	42.4	6.8	100.4
2.1	12.2	4.5	45.9	6.9	101.5
2.2	12.6	4.6	49.7	7.0	102.7
2.3	13.0	4.7	53.6	7.1	103.8
2.4	13.4	4.8	57.5	7.2	104.9
2.5	13.8	4.9	61.4	7.3	106.0
2.6	14.3	5.0	65.0	7.4	107.1
2.7	14.8	5.1	68.4	7.5	108.2
2.8	15.4	5.2	71.5	7.6	109.2
2.9	16.0	5.3	74.4	7.7	110.3
3.0	16.7	5.4	77.0	7.8	111.3
3.1	17.5	5.5	79.5	7.9	112.4
3.2	18.4	5.6	81.7	8.0	113.4

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 100

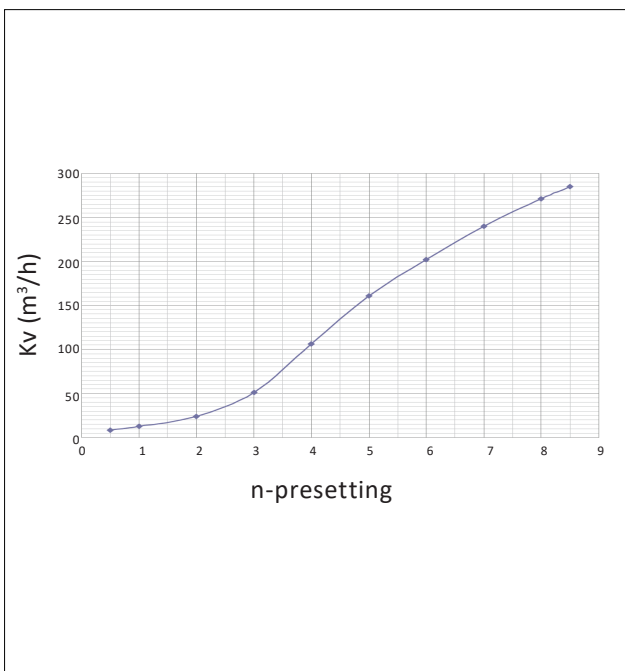
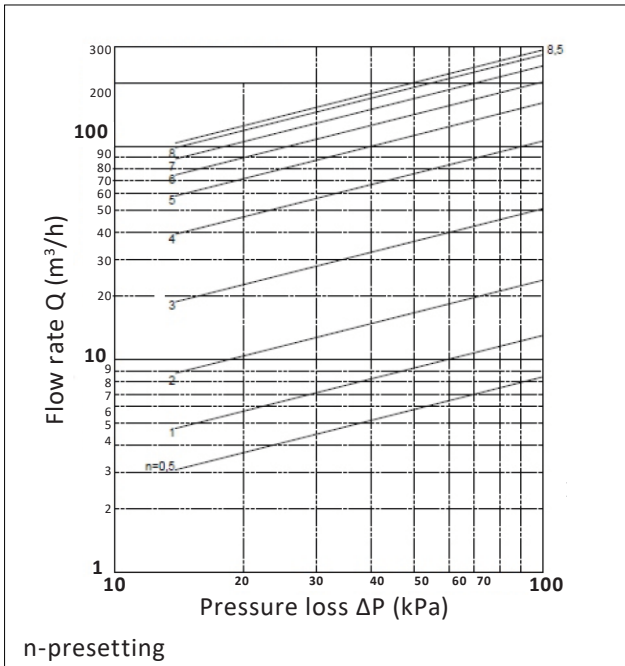


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	5.6	3.5	50.5	6.1	137.6
1.0	9.6	3.6	54.4	6.2	140.3
1.1	10.2	3.7	58.6	6.3	142.9
1.2	10.9	3.8	62.8	6.4	145.5
1.3	11.5	3.9	67.1	6.5	148.1
1.4	12.1	4.0	71.4	6.6	150.6
1.5	12.8	4.1	75.5	6.7	153.0
1.6	13.4	4.2	79.6	6.8	155.4
1.7	14.1	4.3	83.5	6.9	157.7
1.8	14.9	4.4	87.3	7.0	159.9
1.9	15.7	4.5	90.9	7.1	162.0
2.0	16.6	4.6	94.5	7.2	164.1
2.1	17.5	4.7	97.9	7.3	166.0
2.2	18.7	4.8	101.2	7.4	167.9
2.3	19.9	4.9	104.4	7.5	169.8
2.4	21.3	5.0	107.4	7.6	171.5
2.5	22.9	5.1	110.4	7.7	173.2
2.6	24.7	5.2	113.3	7.8	174.8
2.7	26.7	5.3	116.1	7.9	176.4
2.8	28.9	5.4	118.9	8.0	177.9
2.9	31.3	5.5	121.6	8.1	179.4
3.0	34.0	5.6	124.3	8.2	180.8
3.1	36.9	5.7	127.0	8.3	182.1
3.2	40.0	5.8	129.6	8.4	183.4
3.3	43.3	5.9	132.3	8.5	184.7
3.4	46.8	6.0	135.0	-	-

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 125

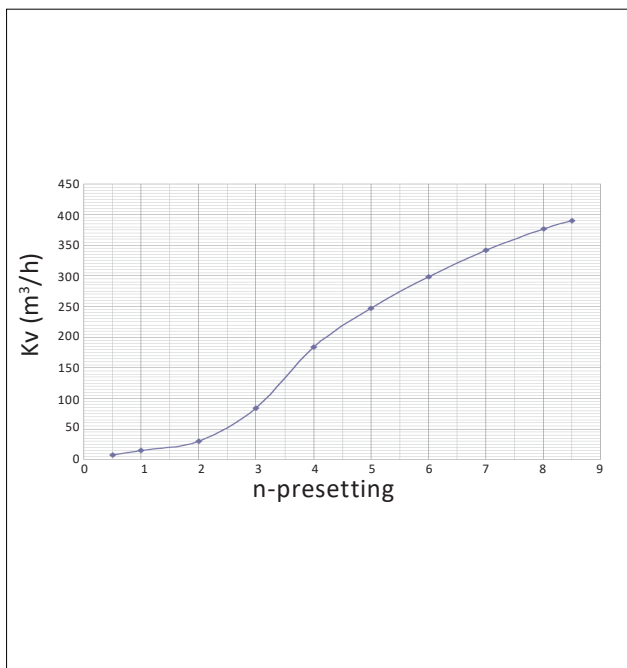
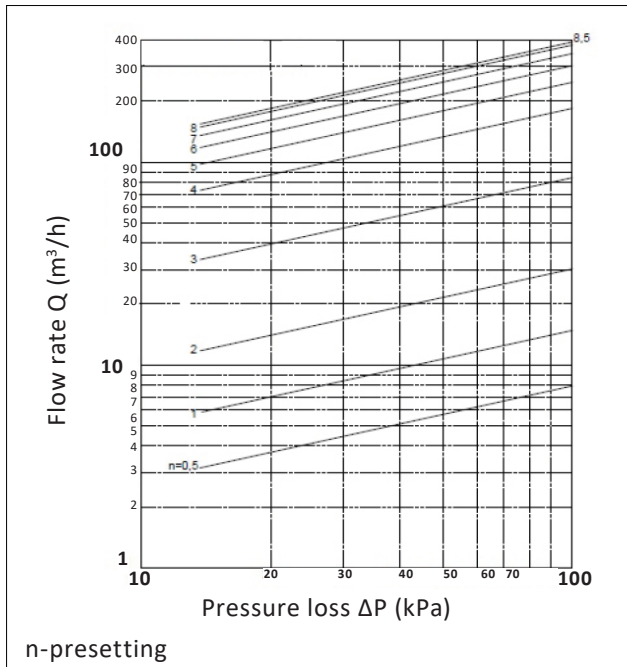


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	8.3	3.5	77.0	6.1	205.8
1.0	13.0	3.6	82.7	6.2	209.8
1.1	13.9	3.7	88.5	6.3	213.8
1.2	14.9	3.8	94.5	6.4	217.7
1.3	15.8	3.9	100.4	6.5	221.6
1.4	16.8	4.0	106.5	6.6	225.4
1.5	17.8	4.1	112.5	6.7	229.1
1.6	18.9	4.2	118.5	6.8	232.8
1.7	19.9	4.3	124.3	6.9	236.3
1.8	21.1	4.4	130.1	7.0	239.8
1.9	22.3	4.5	135.7	7.1	243.2
2.0	23.7	4.6	141.1	7.2	246.5
2.1	25.2	4.7	146.3	7.3	249.7
2.2	26.8	4.8	151.4	7.4	252.8
2.3	28.6	4.9	156.2	7.5	255.9
2.4	30.7	5.0	160.9	7.6	259.0
2.5	33.1	5.1	165.4	7.7	262.0
2.6	35.8	5.2	169.7	7.8	264.9
2.7	38.9	5.3	173.9	7.9	267.9
2.8	42.5	5.4	178.0	8.0	270.8
2.9	46.6	5.5	182.1	8.1	273.7
3.0	51.2	5.6	186.1	8.2	276.6
3.1	56.0	5.7	190.0	8.3	279.4
3.2	61.0	5.8	194.0	8.4	282.3
3.3	66.2	5.9	197.9	8.5	285.1
3.4	71.5	6.0	201.9	-	-

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 150

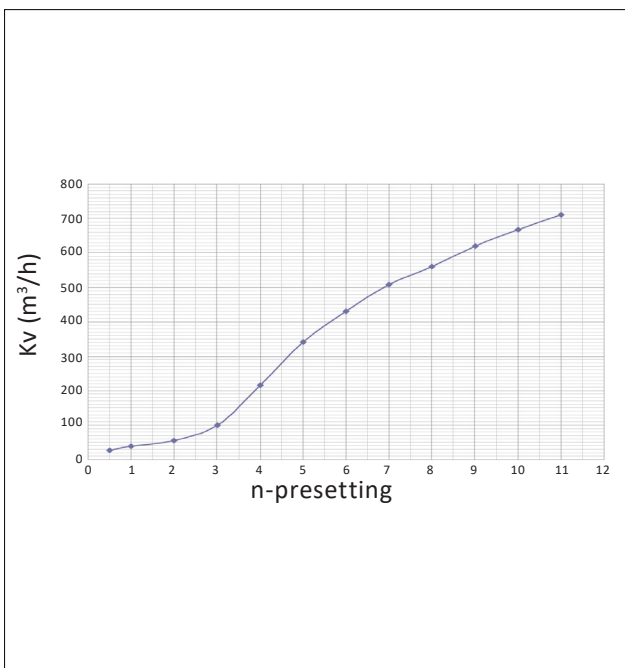
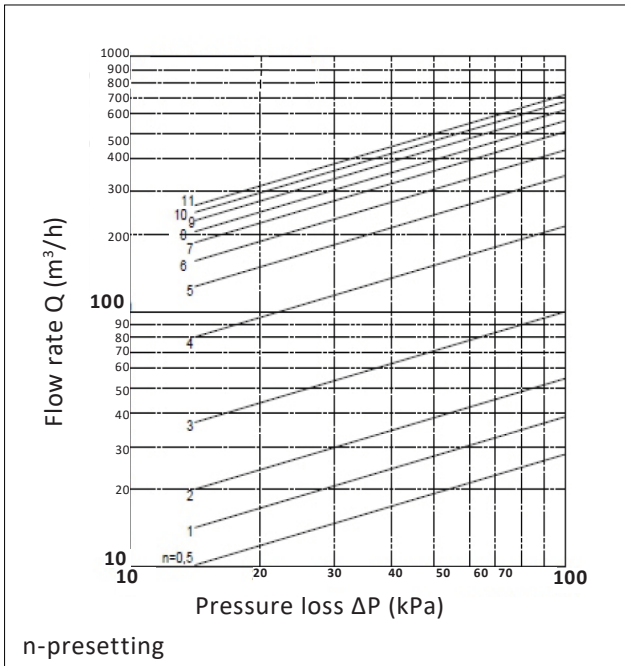


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	8.3	3.5	77.0	6.1	205.8
1.0	13.0	3.6	82.7	6.2	209.8
1.1	13.9	3.7	88.5	6.3	213.8
1.2	14.9	3.8	94.5	6.4	217.7
1.3	15.8	3.9	100.4	6.5	221.6
1.4	16.8	4.0	106.5	6.6	225.4
1.5	17.8	4.1	112.5	6.7	229.1
1.6	18.9	4.2	118.5	6.8	232.8
1.7	19.9	4.3	124.3	6.9	236.3
1.8	21.1	4.4	130.1	7.0	239.8
1.9	22.3	4.5	135.7	7.1	243.2
2.0	23.7	4.6	141.1	7.2	246.5
2.1	25.2	4.7	146.3	7.3	249.7
2.2	26.8	4.8	151.4	7.4	252.8
2.3	28.6	4.9	156.2	7.5	255.9
2.4	30.7	5.0	160.9	7.6	259.0
2.5	33.1	5.1	165.4	7.7	262.0
2.6	35.8	5.2	169.7	7.8	264.9
2.7	38.9	5.3	173.9	7.9	267.9
2.8	42.5	5.4	178.0	8.0	270.8
2.9	46.6	5.5	182.1	8.1	273.7
3.0	51.2	5.6	186.1	8.2	276.6
3.1	56.0	5.7	190.0	8.3	279.4
3.2	61.0	5.8	194.0	8.4	282.3
3.3	66.2	5.9	197.9	8.5	285.1
3.4	121.1	6.0	298.2	-	-

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 200

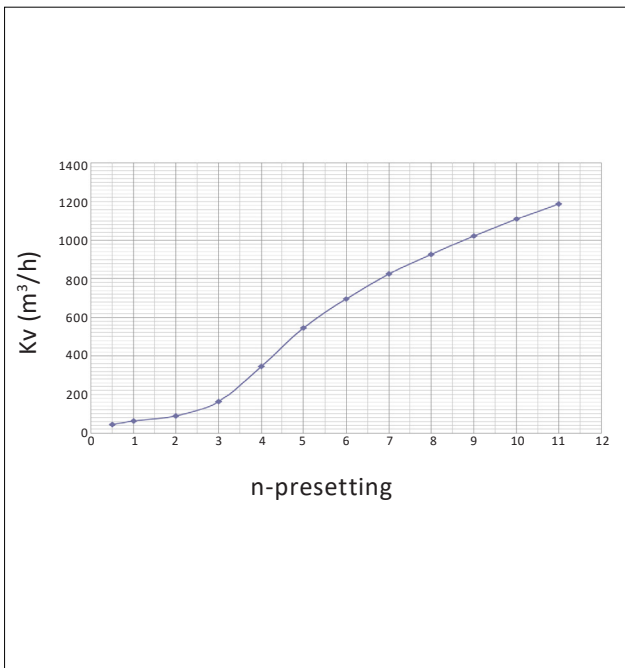
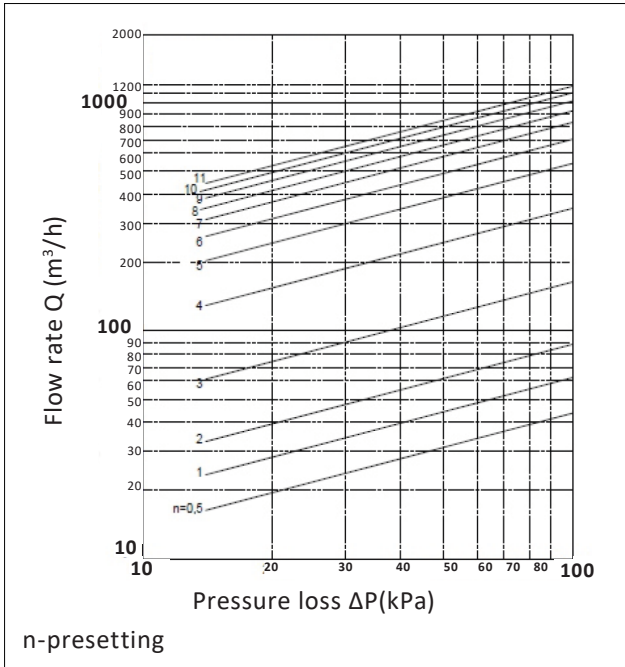


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	27.5	3.5	148.6	6.1	438.5	8.7	602.0
1.0	38.6	3.6	161.0	6.2	447.0	8.8	607.9
1.1	40.1	3.7	174.2	6.3	455.4	8.9	613.7
1.2	41.5	3.8	187.9	6.4	463.7	9.0	619.3
1.3	42.9	3.9	202.0	6.5	471.7	9.1	624.7
1.4	44.2	4.0	216.2	6.6	479.6	9.2	630.0
1.5	45.6	4.1	230.3	6.7	487.1	9.3	635.0
1.6	47.0	4.2	244.2	6.8	494.3	9.4	640.0
1.7	48.6	4.3	257.8	6.9	501.1	9.5	644.8
1.8	50.3	4.4	271.0	7.0	507.6	9.6	649.4
1.9	52.3	4.5	283.9	7.1	513.6	9.7	654.0
2.0	54.6	4.6	296.3	7.2	519.3	9.8	658.5
2.1	57.2	4.7	308.3	7.3	524.8	9.9	662.9
2.2	60.1	4.8	319.7	7.4	530.0	10.0	667.2
2.3	63.4	4.9	330.7	7.5	535.2	10.1	671.5
2.4	67.1	5.0	341.2	7.6	540.2	10.2	675.8
2.5	71.2	5.1	351.2	7.7	545.2	10.3	680.0
2.6	75.8	5.2	360.8	7.8	550.3	10.4	684.2
2.7	80.9	5.3	370.0	7.9	555.5	10.5	688.4
2.8	86.6	5.4	379.0	8.0	560.8	10.6	692.7
2.9	92.9	5.5	387.7	8.1	566.4	10.7	696.9
3.0	99.9	5.6	396.3	8.2	572.1	10.8	701.2
3.1	107.8	5.7	404.8	8.3	578.0	10.9	705.6
3.2	116.6	5.8	413.3	8.4	583.9	11.0	710.0
3.3	126.3	5.9	421.7	8.5	590.0	-	-
3.4	137.0	6.0	430.1	8.6	596.0		

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 250

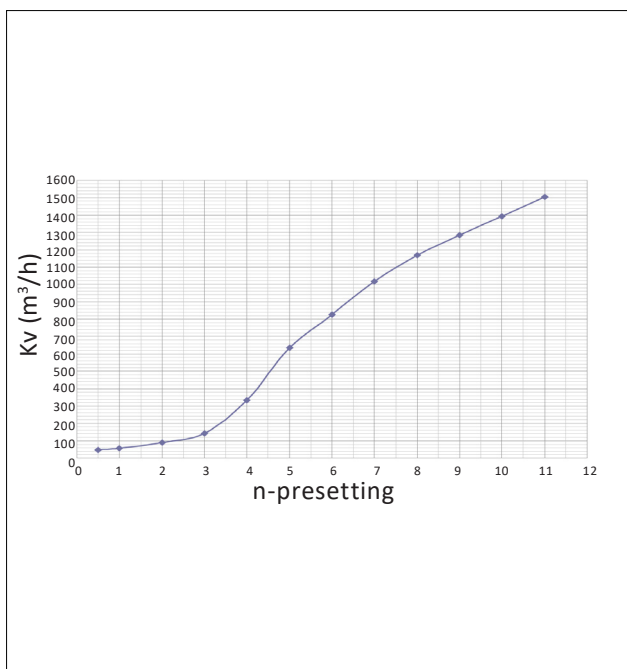
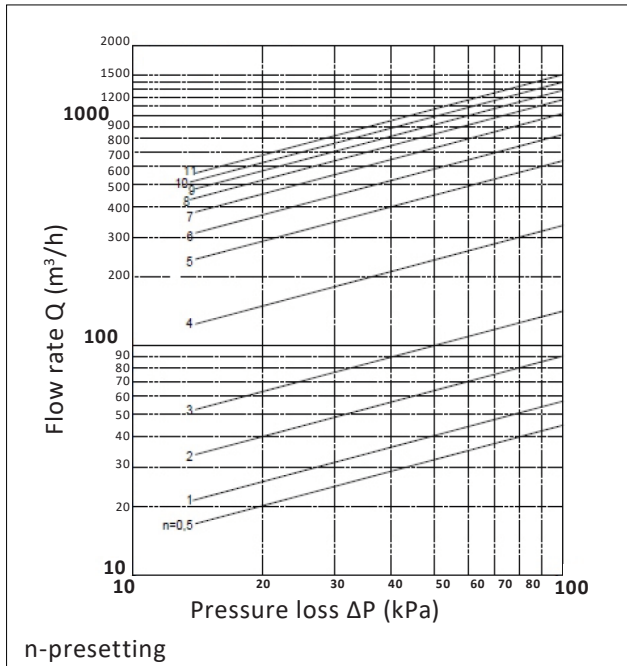


Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	43.5	3.5	239.2	6.1	708.1	8.7	993.9
1.0	62.3	3.6	258.4	6.2	722.0	8.8	1003.5
1.1	64.7	3.7	278.9	6.3	735.7	8.9	1013.0
1.2	66.9	3.8	300.5	6.4	749.2	9.0	1022.4
1.3	69.0	3.9	322.8	6.5	762.5	9.1	1031.7
1.4	71.0	4.0	345.3	6.6	775.4	9.2	1040.9
1.5	73.1	4.1	367.4	6.7	788.1	9.3	1050.0
1.6	75.3	4.2	389.2	6.8	800.3	9.4	1058.9
1.7	77.7	4.3	410.5	6.9	812.2	9.5	1067.8
1.8	80.4	4.4	431.2	7.0	823.7	9.6	1076.5
1.9	83.6	4.5	451.4	7.1	834.8	9.7	1085.1
2.0	87.3	4.6	471.0	7.2	845.5	9.8	1093.6
2.1	91.6	4.7	489.9	7.3	856.0	9.9	1101.9
2.2	96.6	4.8	508.3	7.4	866.2	10.0	1110.2
2.3	102.3	4.9	526.1	7.5	876.3	10.1	1118.4
2.4	108.7	5.0	543.3	7.6	886.2	10.2	1126.5
2.5	115.8	5.1	559.9	7.7	896.1	10.3	1134.4
2.6	123.8	5.2	576.0	7.8	905.8	10.4	1142.3
2.7	132.5	5.3	591.7	7.9	915.6	10.5	1150.1
2.8	142.0	5.4	607.0	8.0	925.3	10.6	1157.7
2.9	152.5	5.5	622.0	8.1	935.1	10.7	1165.3
3.0	163.9	5.6	636.8	8.2	944.9	10.8	1172.8
3.1	176.4	5.7	651.3	8.3	954.8	10.9	1180.2
3.2	190.1	5.8	665.7	8.4	964.6	11.0	1187.5
3.3	205.1	5.9	679.9	8.5	974.4	-	-
3.4	221.4	6.0	694.0	8.6	984.2	-	-

FIVC Static Balancing Valve

Grey Cast Iron – PN 16 – Variable Orifice – EN 1092-2

Kv Values for Specific Adjustments - DN 300



Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)	Turn	Kv (m³/h)
0.5	44.9	3.5	202.0	6.1	844.2	8.7	1252.1
1.0	57.1	3.6	221.1	6.2	863.6	8.8	1263.2
1.1	59.9	3.7	243.4	6.3	883.3	8.9	1274.2
1.2	62.8	3.8	269.4	6.4	903.1	9.0	1285.1
1.3	65.9	3.9	299.1	6.5	922.9	9.1	1296.0
1.4	69.0	4.0	331.7	6.6	942.5	9.2	1306.9
1.5	72.2	4.1	365.6	6.7	962.0	9.3	1317.8
1.6	75.6	4.2	400.1	6.8	981.0	9.4	1328.7
1.7	79.0	4.3	434.4	6.9	999.7	9.5	1339.6
1.8	82.5	4.4	468.0	7.0	1017.8	9.6	1350.5
1.9	86.1	4.5	500.2	7.1	1035.3	9.7	1361.4
2.0	89.8	4.6	530.8	7.2	1052.3	9.8	1372.3
2.1	93.5	4.7	559.4	7.3	1068.7	9.9	1383.2
2.2	97.4	4.8	586.1	7.4	1084.6	10.0	1394.1
2.3	101.4	4.9	611.0	7.5	1100.0	10.1	1405.1
2.4	105.7	5.0	634.1	7.6	1114.9	10.2	1416.0
2.5	110.2	5.1	655.6	7.7	1129.3	10.3	1427.0
2.6	115.1	5.2	676.0	7.8	1143.2	10.4	1437.9
2.7	120.5	5.3	695.6	7.9	1156.7	10.5	1448.9
2.8	126.4	5.4	714.6	8.0	1169.7	10.6	1459.9
2.9	133.1	5.5	733.2	8.1	1182.3	10.7	1470.9
3.0	140.7	5.6	751.6	8.2	1194.6	10.8	1481.9
3.1	149.5	5.7	769.8	8.3	1206.5	10.9	1493.0
3.2	159.8	5.8	788.1	8.4	1218.2	11.0	1504.1
3.3	171.8	5.9	806.5	8.5	1229.7	-	-
3.4	185.7	6.0	825.1	8.6	1241.0	-	-

FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2



FSB series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron - EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to BS 7350:1990

Field of applications

- Temperature range: -10 to 120°C
- Max. working pressure: 16 bar
- Accuracy of flow measurement: ±5%

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

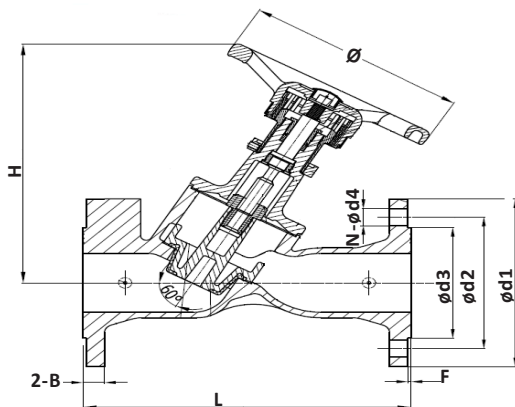
FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated variable orifice. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings.

Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

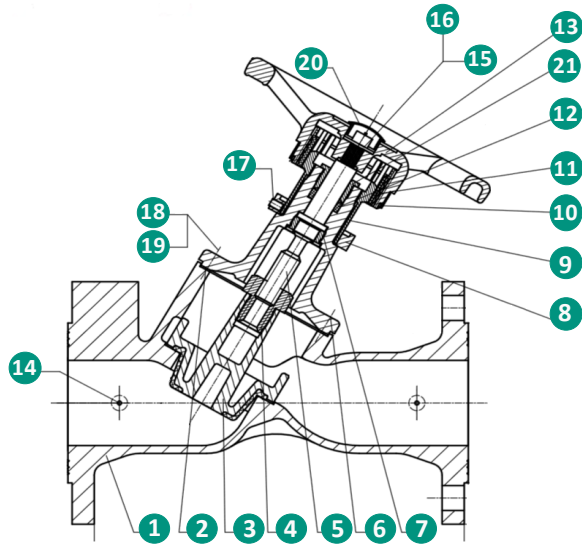
Product code	Size (DN)	H*	L*	B*	Ø*	Ød1*	Ød2*	Ød3*	N-Ød4*	F*	Kg
FSB065N16GV230	65	265	290	19	200	185	145	118	4-Ø19	3	17
FSB080N16GV230	80	270	310	19	200	200	160	132	8-Ø19	3	20
FSB100N16GV230	100	310	350	19	240	220	180	156	8-Ø19	3	29
FSB125N16GV230	125	340	400	19	290	250	210	184	8-Ø19	3	40
FSB150N16GV230	150	340	480	19	290	285	240	211	8-Ø23	3	52
FSB200N16GV230	200	537	600	20	350	340	295	266	12-Ø23	3	113
FSB250N16GV230	250	570	730	22	420	405	355	319	12-Ø28	3	185
FSB300N16GV230	300	690	850	24.5	420	460	410	370	12-Ø28	4	248
FSB350N16GV230	350	685	980	26.5	420	520	470	429	16-Ø28	4	408
FSB400N16GV230	400	965	1100	28	640	580	525	480	16-Ø31	4	592
FSB450N16GV230	450	1020	1200	30	640	640	585	548	20-Ø31	4	684
FSB500N16GV230	500	1065	1250	31.5	640	715	650	609	20-Ø34	4	836
FSB600N16GV230	600	1180	1450	36	640	840	770	720	20-Ø37	5	-

*Dimensions are in millimeters

FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

Product Specification

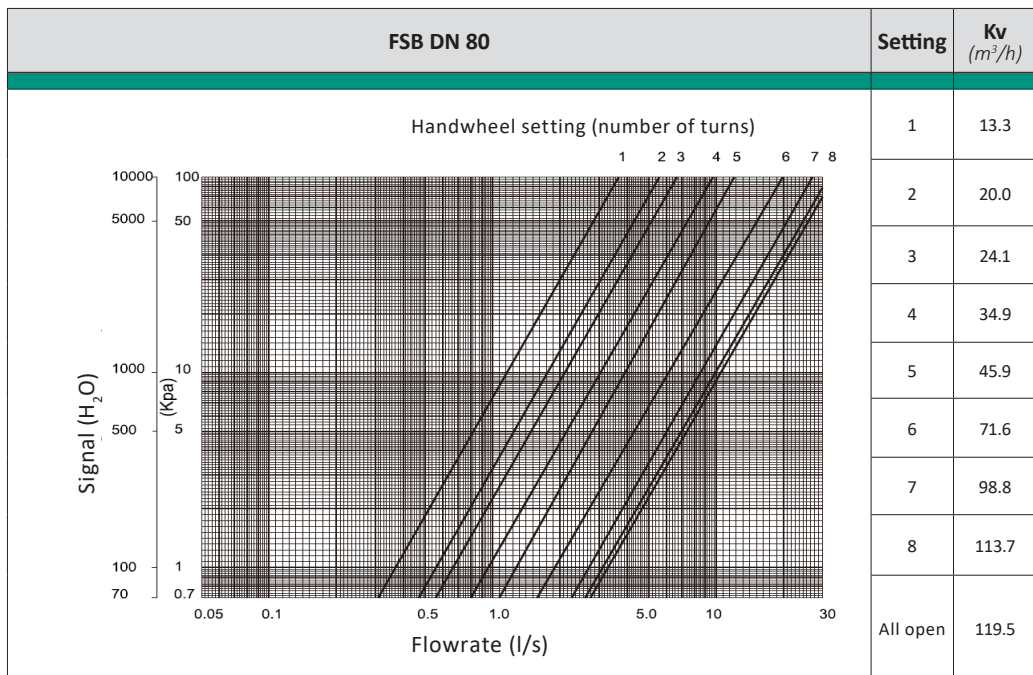
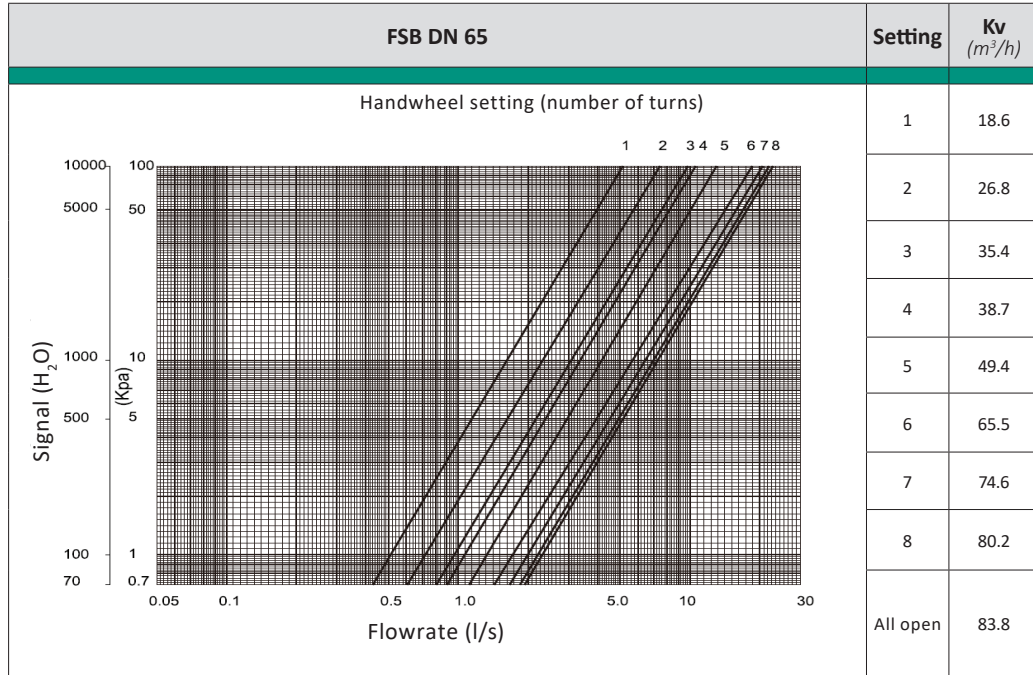


N°	Name	Material
1	Body	Ductile Iron EN JS 1040
2	Seal gasket	EPDM
3	Disc	Ductile Iron EN JS 1040+EPDM
4	Stem nut	Brass CW617N EN 12165
5	Stem	DN 65-300: Stainless Steel BS 970 410 S21 DN 350-600: Stainless Steel BS 970 431 S21
6	Cover	Ductile Iron EN JS 1040
7	Stem lock bushing	Brass CW617N EN 12165
8	Limit set of indicator	Stainless Steel BS 970 304 S15
9	Oriented set of indicator	Brass CW617N EN 12165
10	Directed circle	ABS plastic
11	Indicator	ABS plastic
12	Packing	PTFE + EPDM
13	Handwheel	Ductile Iron EN JS 1040
14	Plug	Steel
15	Bolt	Stainless Steel BS 970 304 S15
16	Big gasket	Stainless Steel BS 970 304 S15
17	Hexagon socket screws	Stainless Steel BS 970 304 S15
18	Bolt	Stainless Steel BS 970 304 S15
19	Spring gasket	Stainless Steel BS 970 304 S15
20	Indicator dust cover	ABS plastic
21	Packing gland	DN 65-150: Brass CW617N EN 12165 DN 200-450: Ductile Iron EN JS 1040

FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

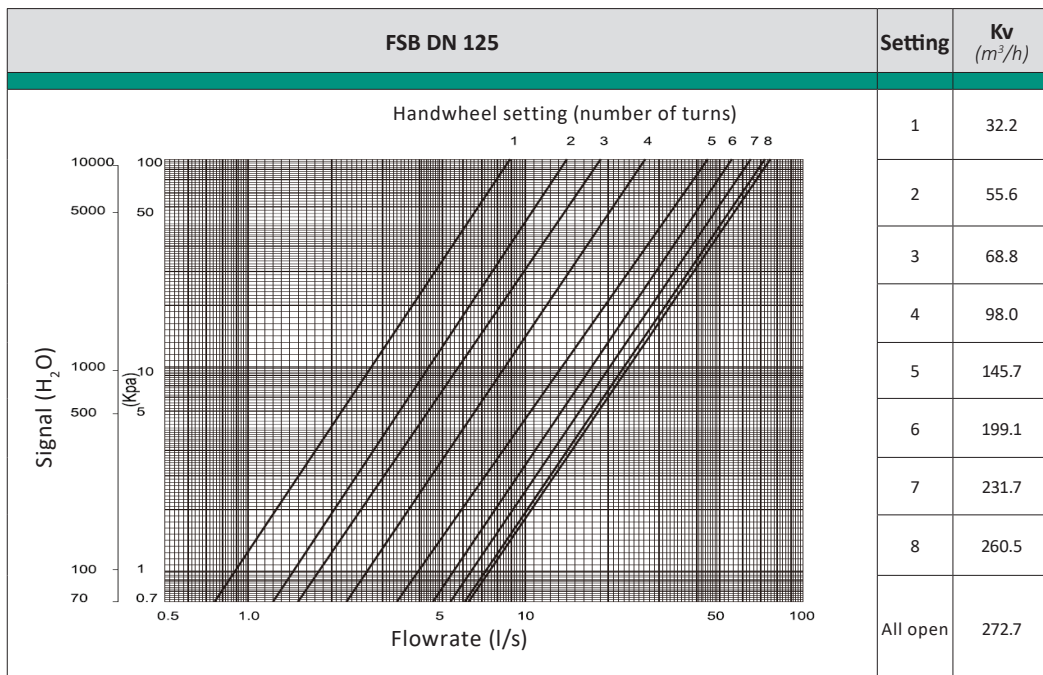
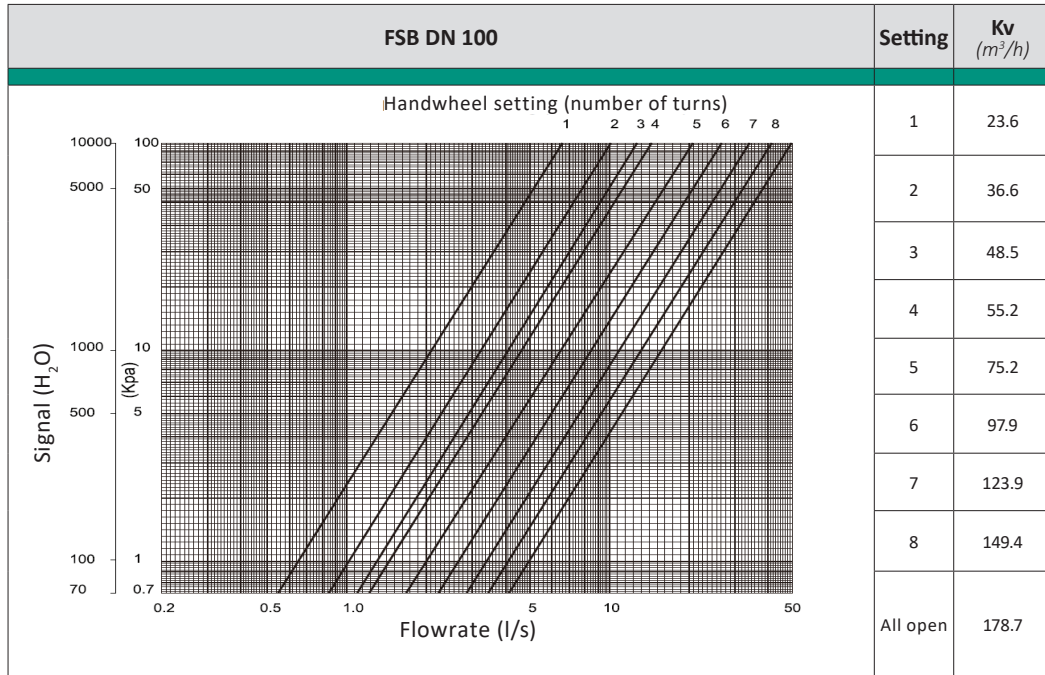
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

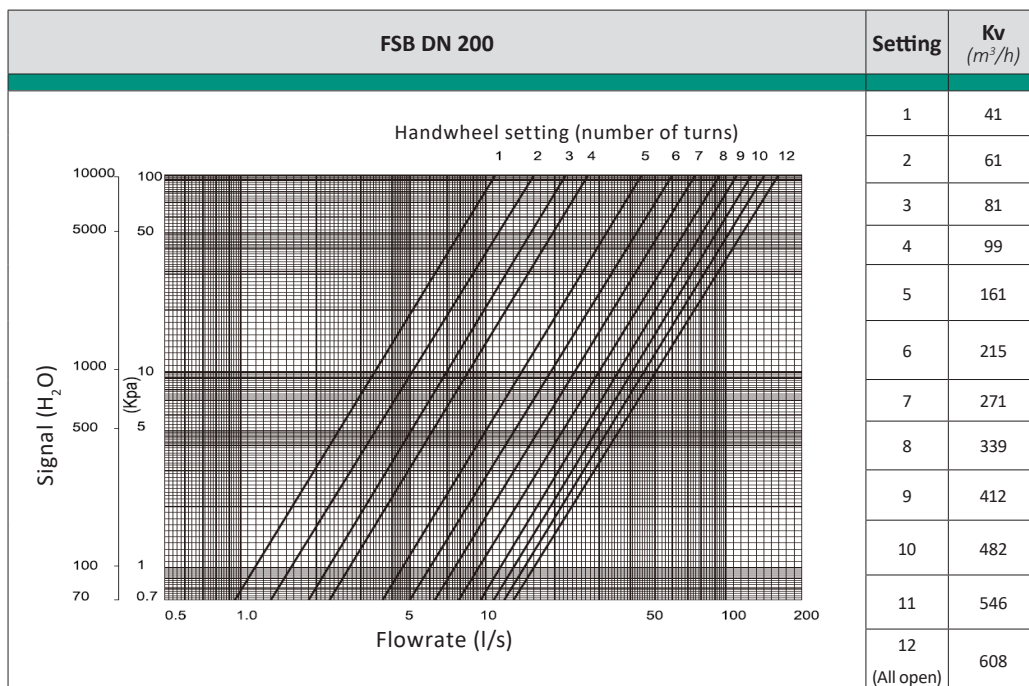
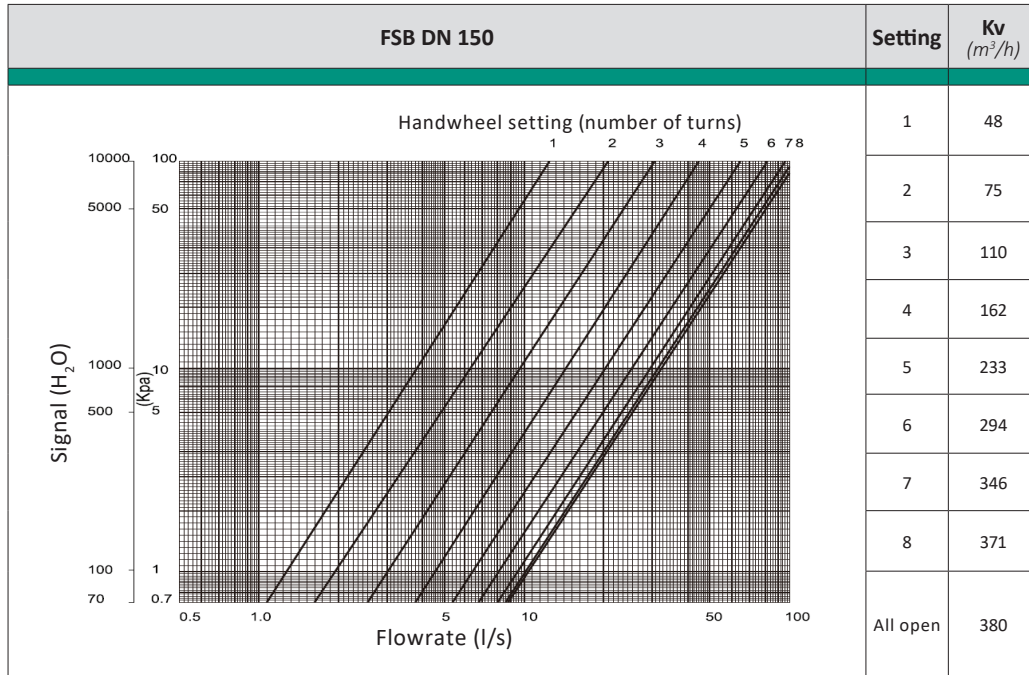
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

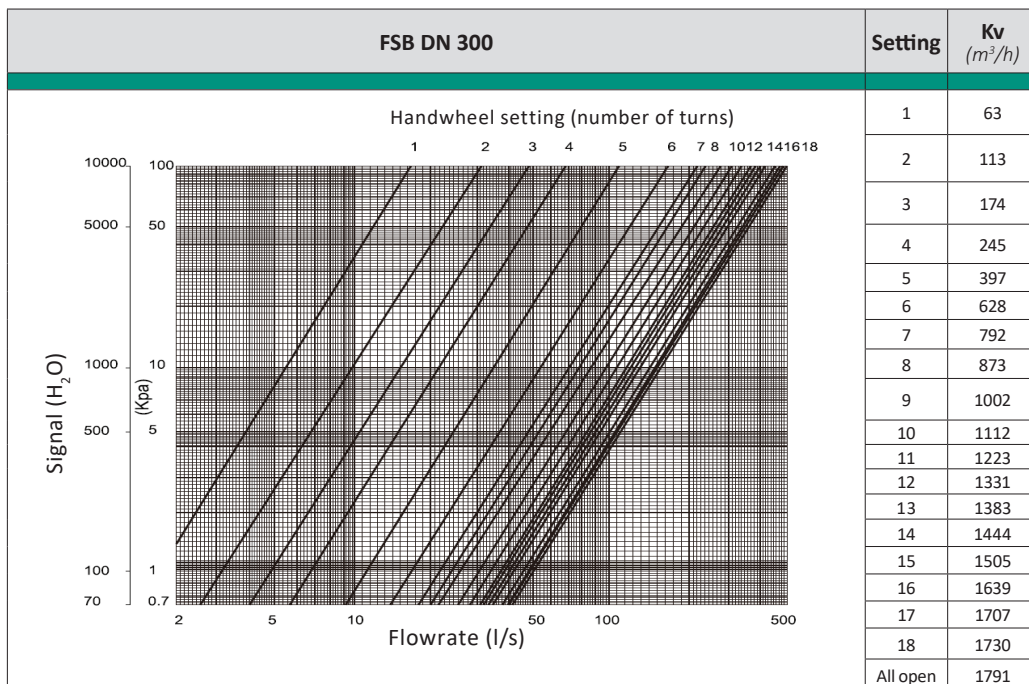
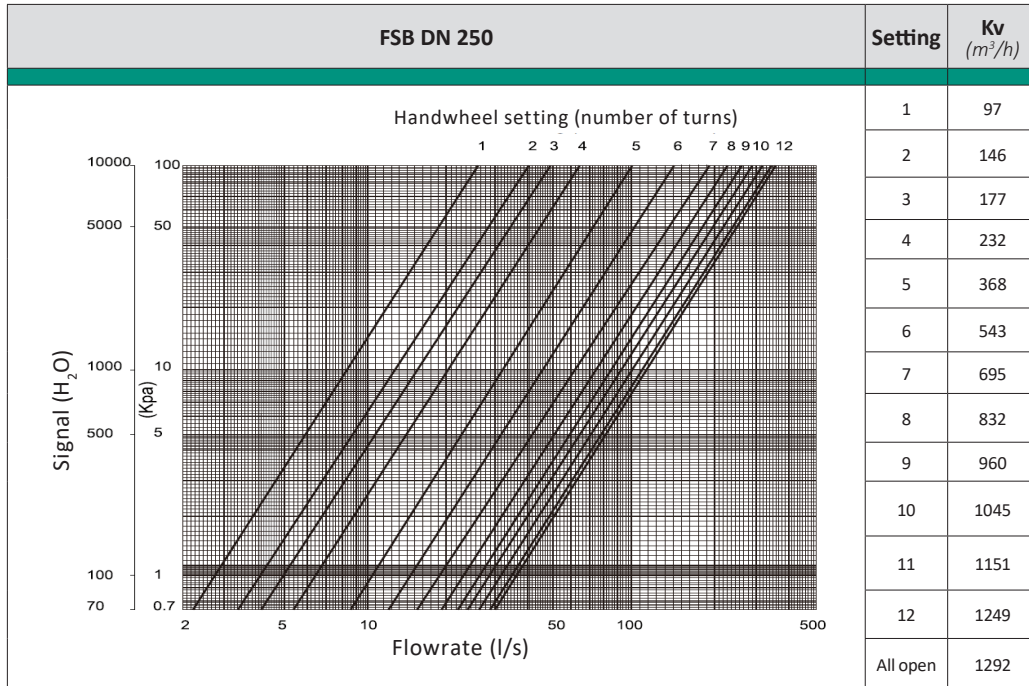
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

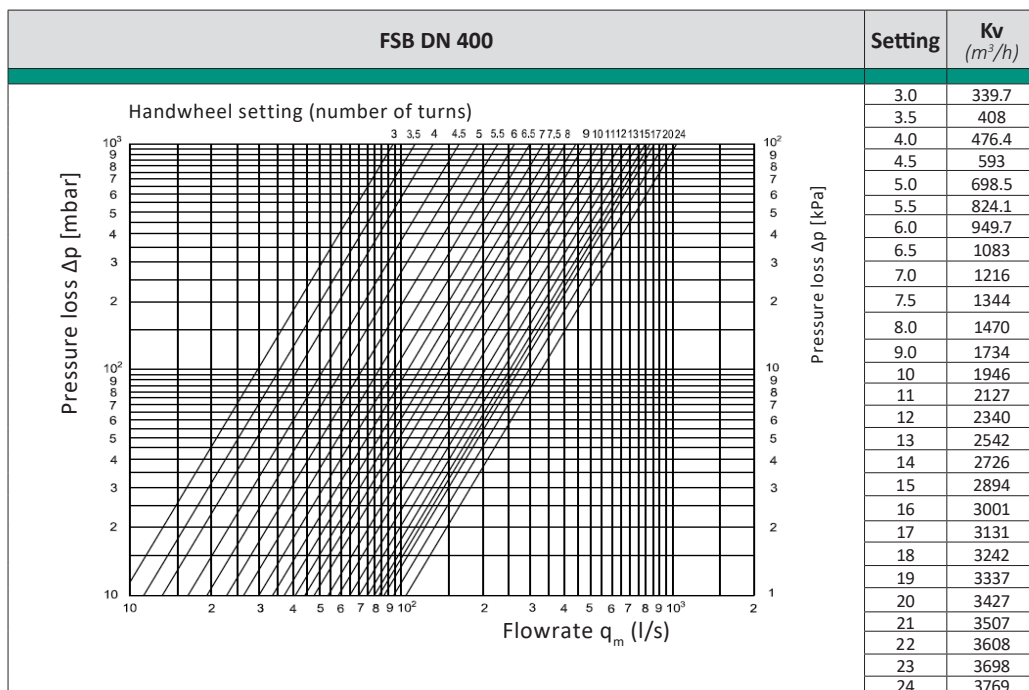
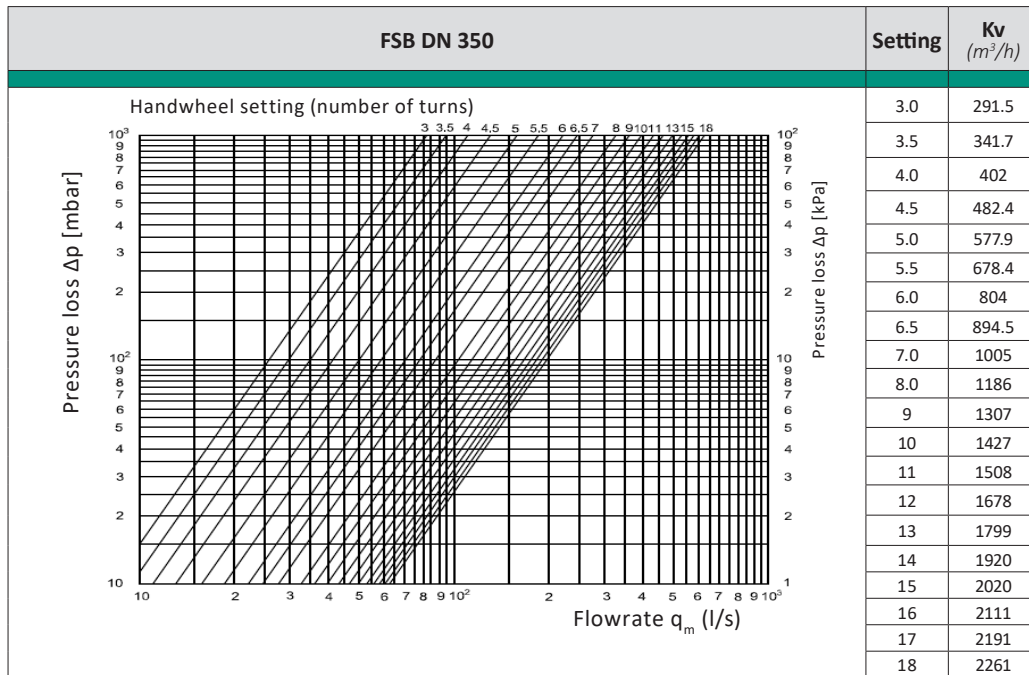
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

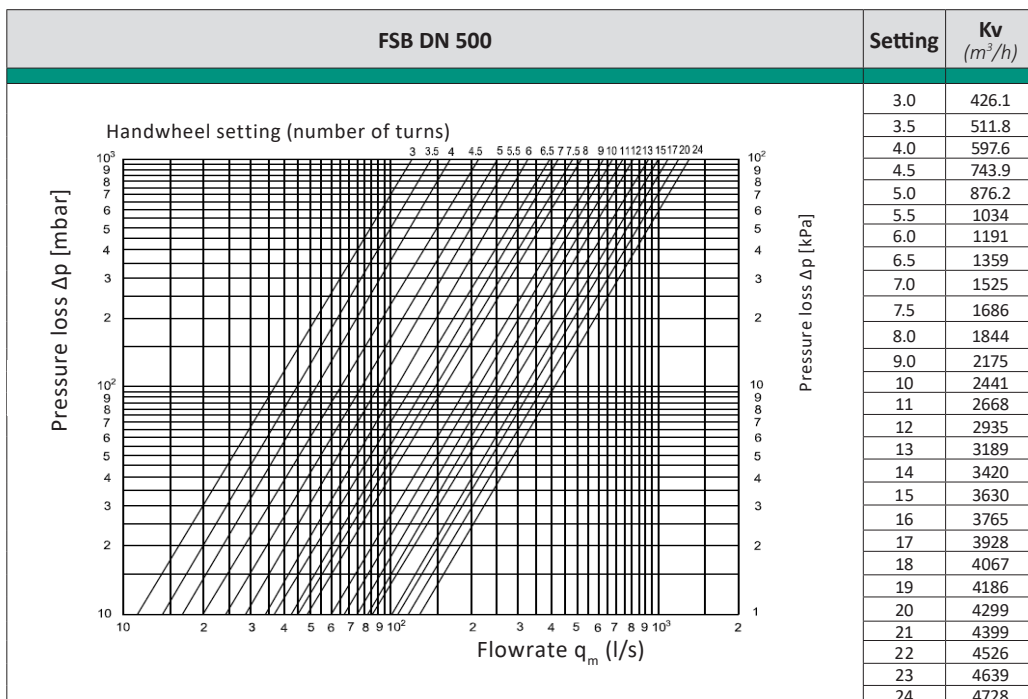
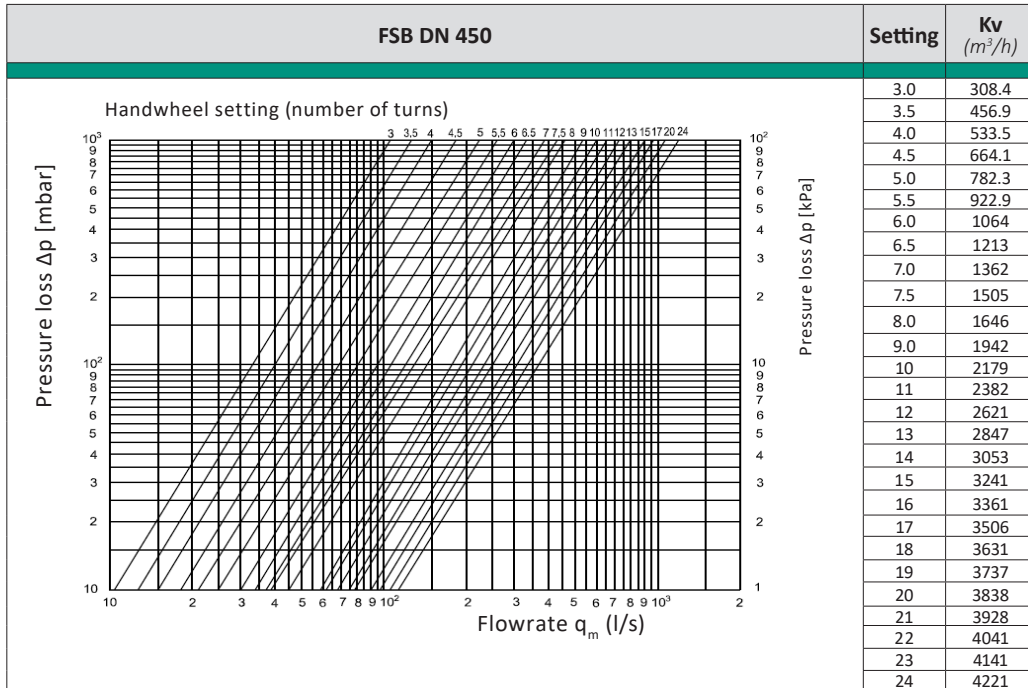
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

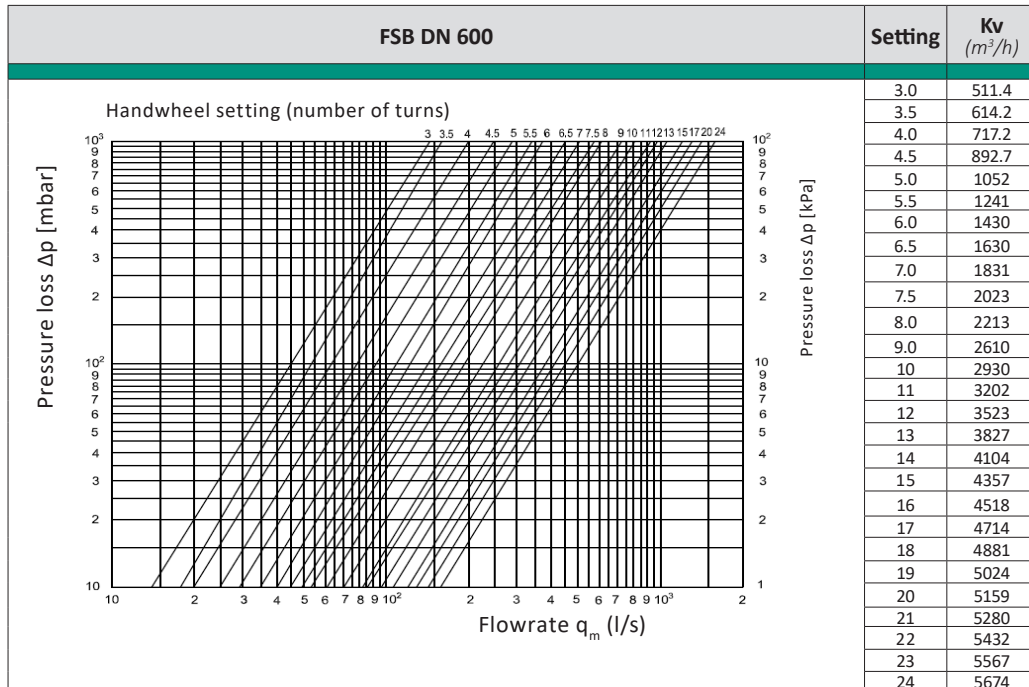
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Variable Orifice – EN 1092-2

Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2



FSB series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron - EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to BS 7350:1990

Field of applications

- Temperature range: -10 to 120°C
- Max. working pressure: 16 bar
- Accuracy of flow measurement: ±5%

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

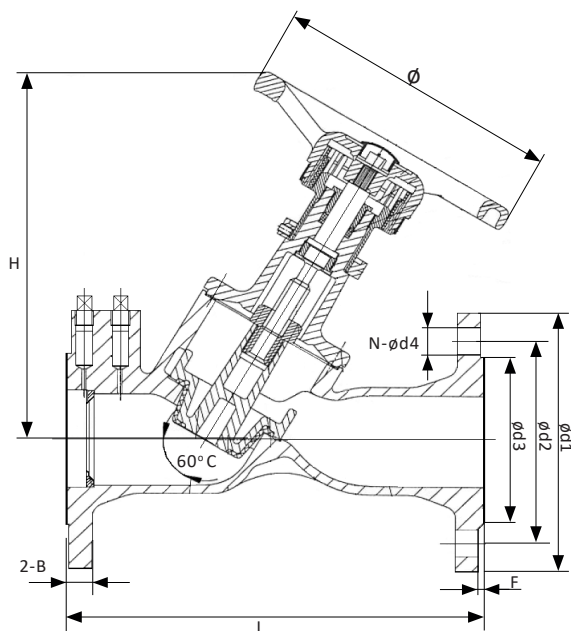
FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated fixed orifice. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings.

Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

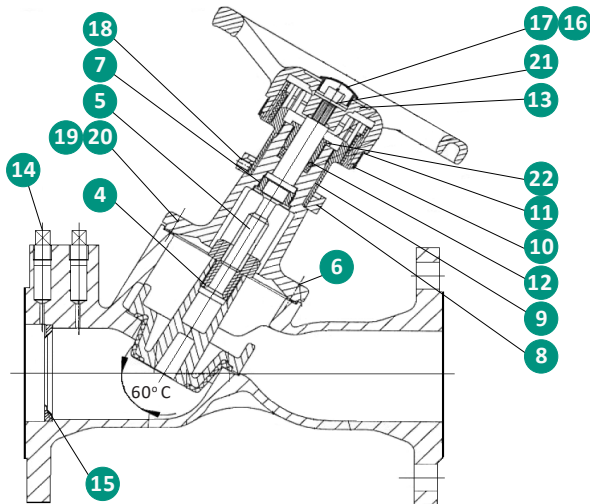
Product code	Size (DN)	H*	L*	B*	Ø*	ød1*	ød2*	ød3*	N-ød4*	F*	Kg
FSB065N16GF230	65	265	290	19	200	185	145	118	4-ø19	3	17
FSB080N16GF230	80	270	310	19	200	200	160	132	8-ø19	3	20
FSB100N16GF230	100	310	350	19	240	220	180	156	8-ø19	3	29
FSB125N16GF230	125	340	400	19	290	250	210	184	8-ø19	3	40
FSB150N16GF230	150	340	480	19	290	285	240	211	8-ø23	3	52
FSB200N16GF230	200	537	600	20	350	340	295	266	12-ø23	3	113
FSB250N16GF230	250	570	730	22	420	405	355	319	12-ø28	3	185
FSB300N16GF230	300	690	850	24.5	420	460	410	370	12-ø28	4	248
FSB350N16GF230	350	685	980	26.5	420	520	470	429	16-ø28	4	408
FSB400N16GF230	400	965	1100	28	640	580	525	480	16-ø31	4	592
FSB450N16GF230	450	1020	1200	30	640	640	585	548	20-ø31	4	684
FSB500N16GF230	500	1065	1250	31.5	640	715	650	609	20-ø34	4	836
FSB600N16GF230	600	1180	1450	36	640	840	770	720	20-ø37	5	-

*Dimensions are in millimeters

FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

Product Specification

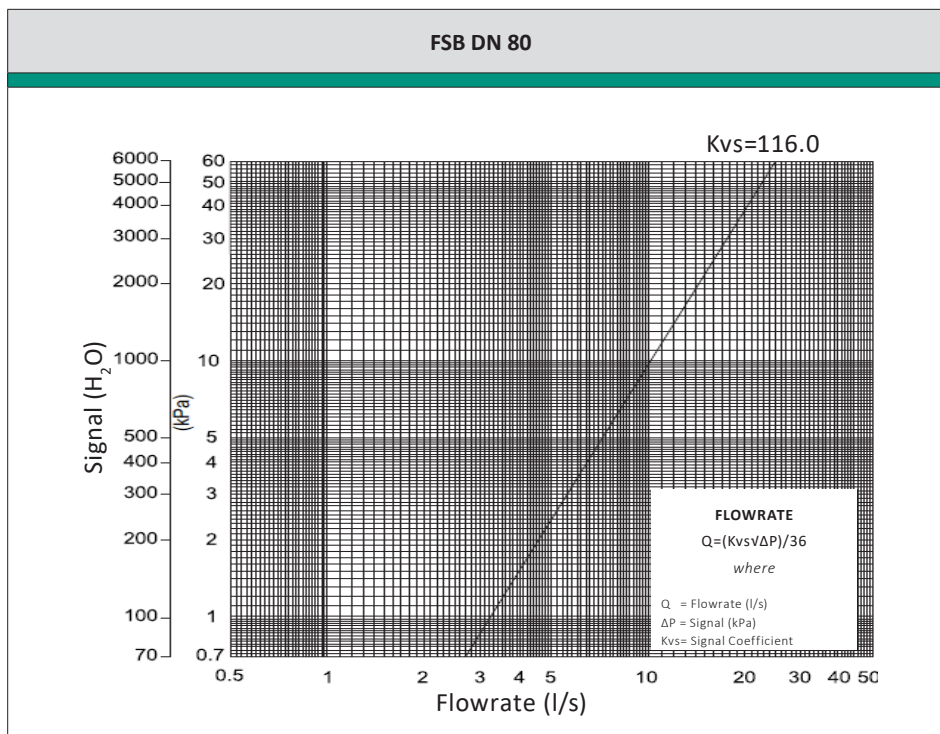
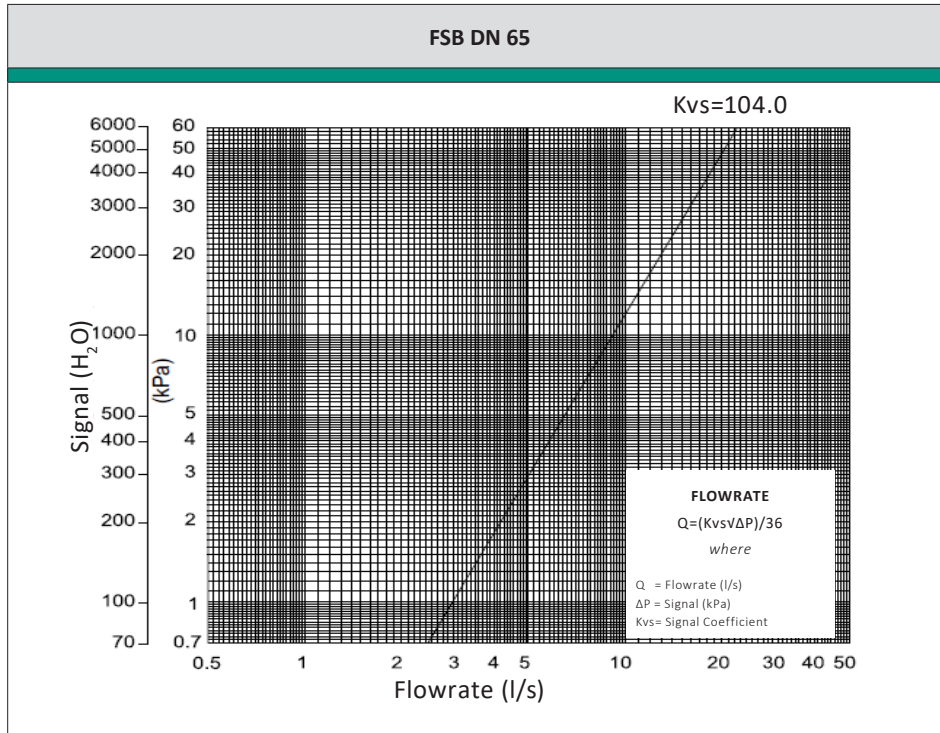


N°	Name	Material
1	Body	Ductile Iron EN JS 1040
2	Seal gasket	EPDM
3	Disc	Ductile Iron EN JS 1050+EPDM
4	Stem nut	Brass CW617N EN 12165
5	Stem	DN 65-300: Stainless Steel BS 970 410 S21 DN 350-600: Stainless Steel BS 970 431 S21
6	Cover	Ductile Iron EN JS 1040
7	Stem lock bushing	Brass CW617N EN 12165
8	Limit set of indicator	Stainless Steel BS 970 304 S15
9	Oriented set of indicator	Brass CW617N EN 12165
10	Directed circle	ABS plastic
11	Indicator	ABS plastic
12	Packing	PTFE+EPDM
13	Handwheel	Ductile Iron EN JS 1040
14	Plug	Steel
15	Orifice insert	DN 65-300: Brass CW617N EN 12165 DN350-600: Stainless Steel BS 970 304 S15
16	Bolt	Stainless Steel BS 970 304 S15
17	Big gasket	Stainless Steel BS 970 304 S15
18	Hexagon socket screws	Stainless Steel BS 970 304 S15
19	Bolt	Stainless Steel BS 970 304 S15
20	Spring gasket	Stainless Steel BS 970 304 S15
21	Indicator dust cover	ABS plastic
22	Packing gland	DN 65-150: Brass CW617N EN 12165 DN 200-600: Ductile Iron EN JS 1040

FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

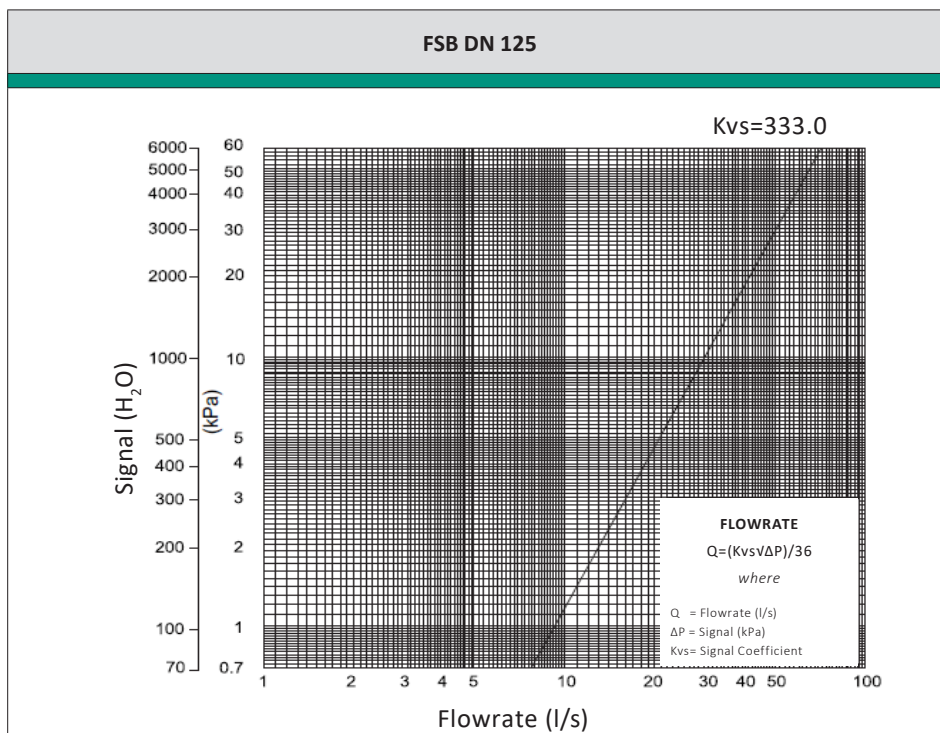
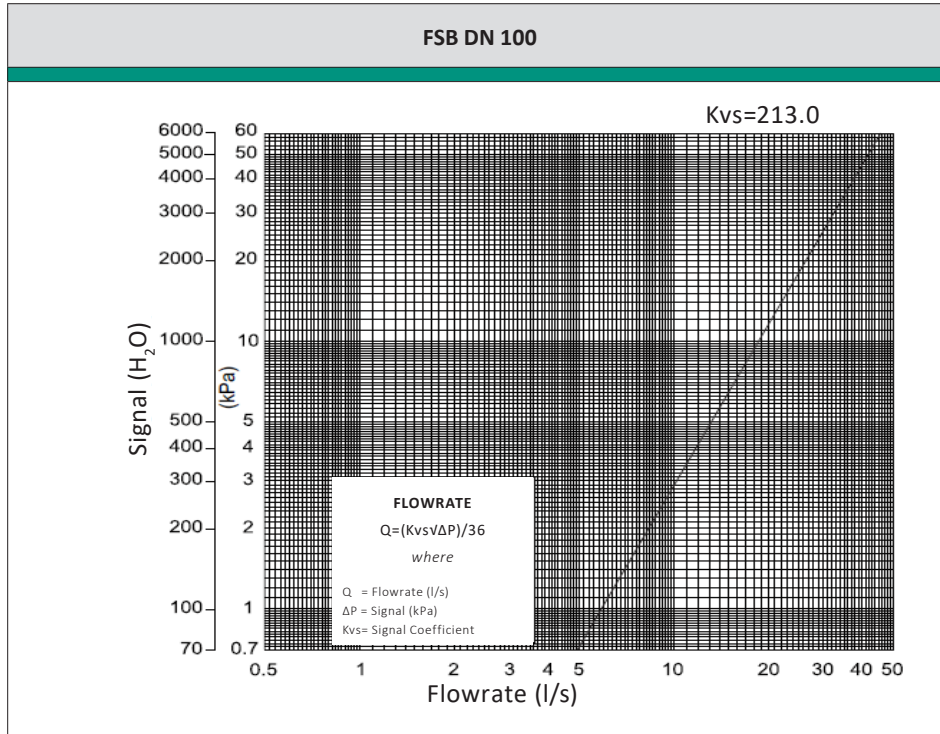
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

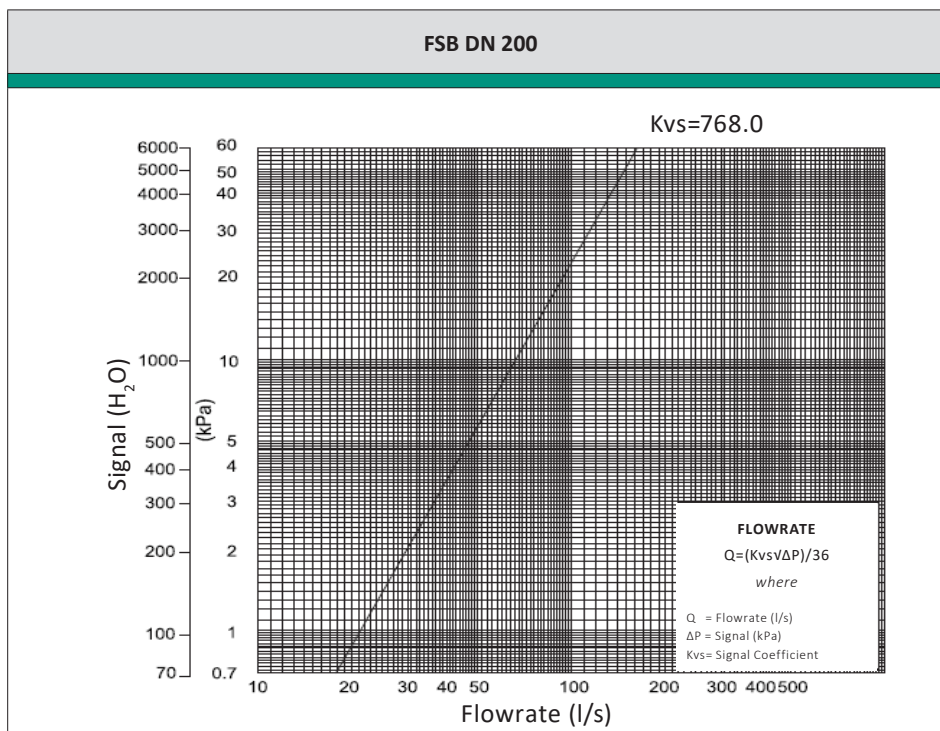
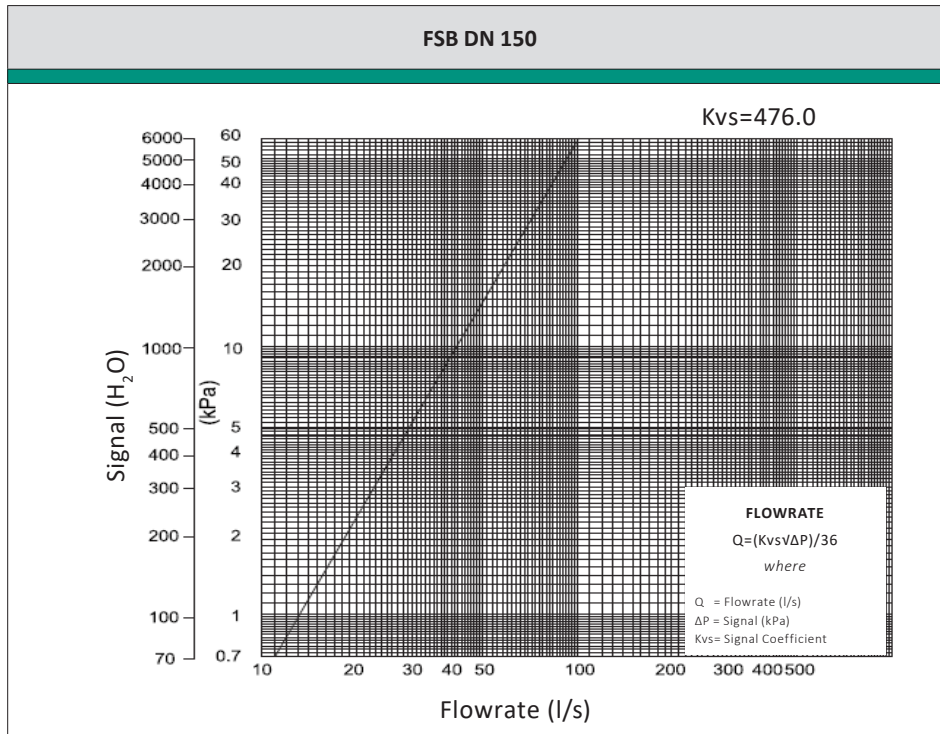
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

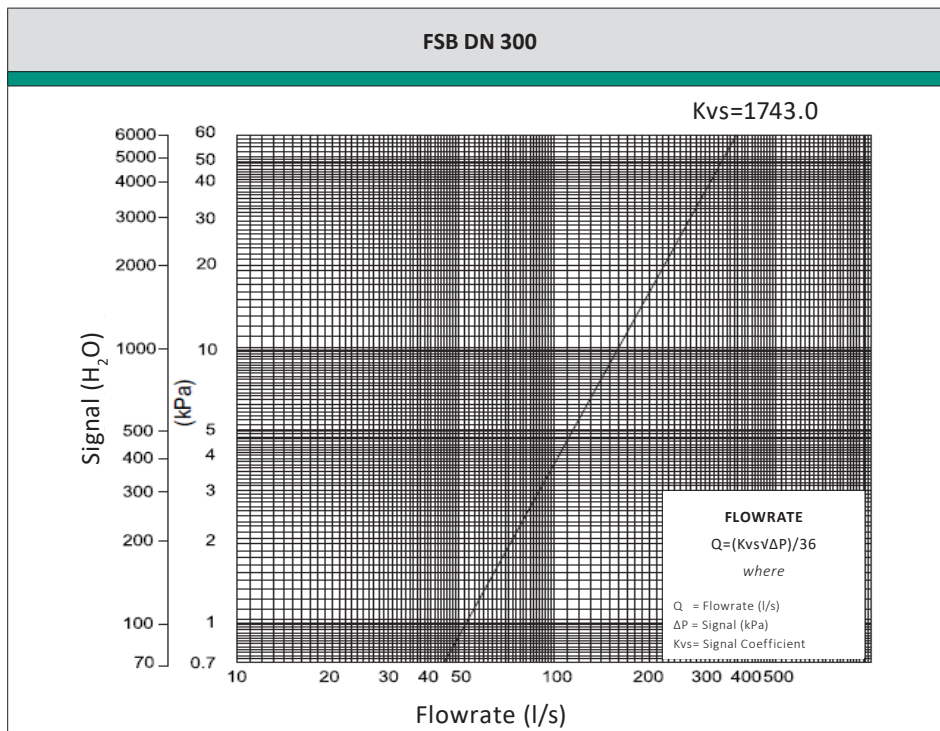
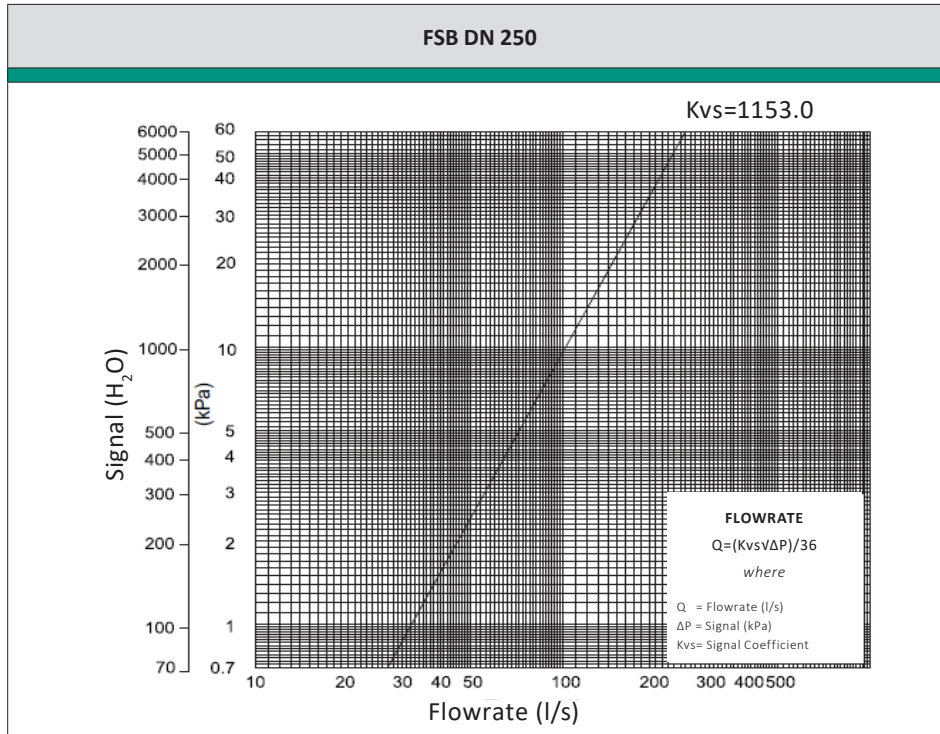
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

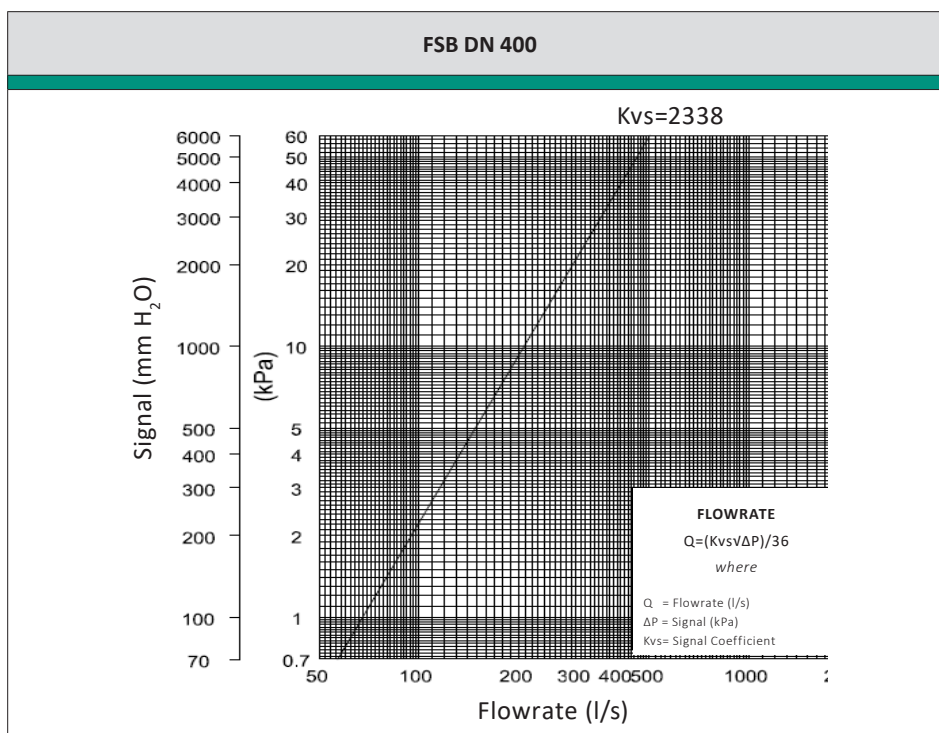
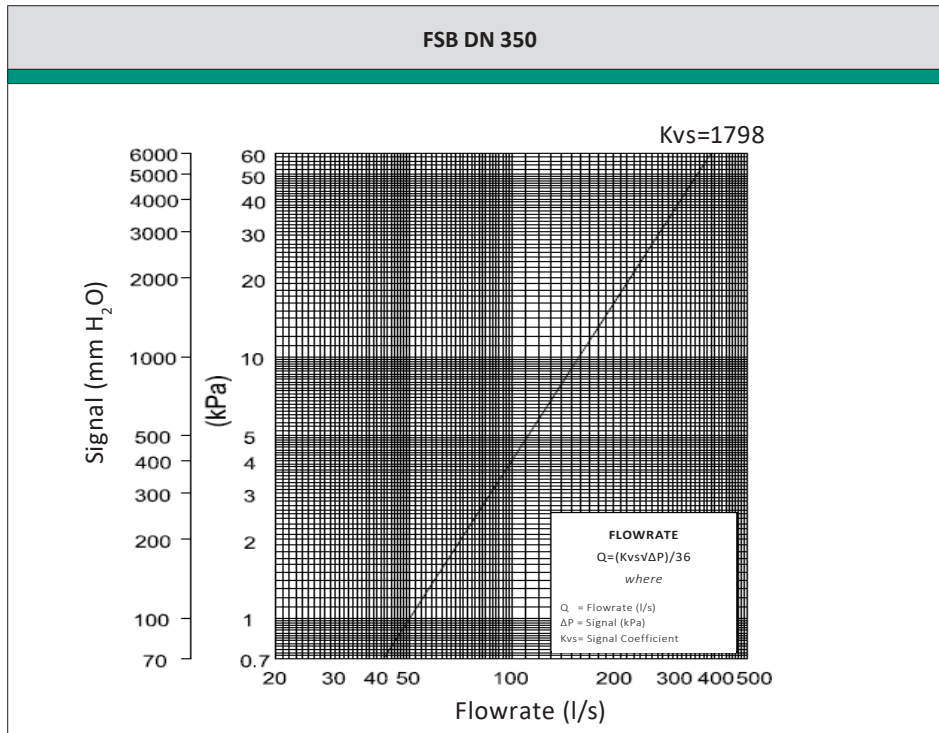
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

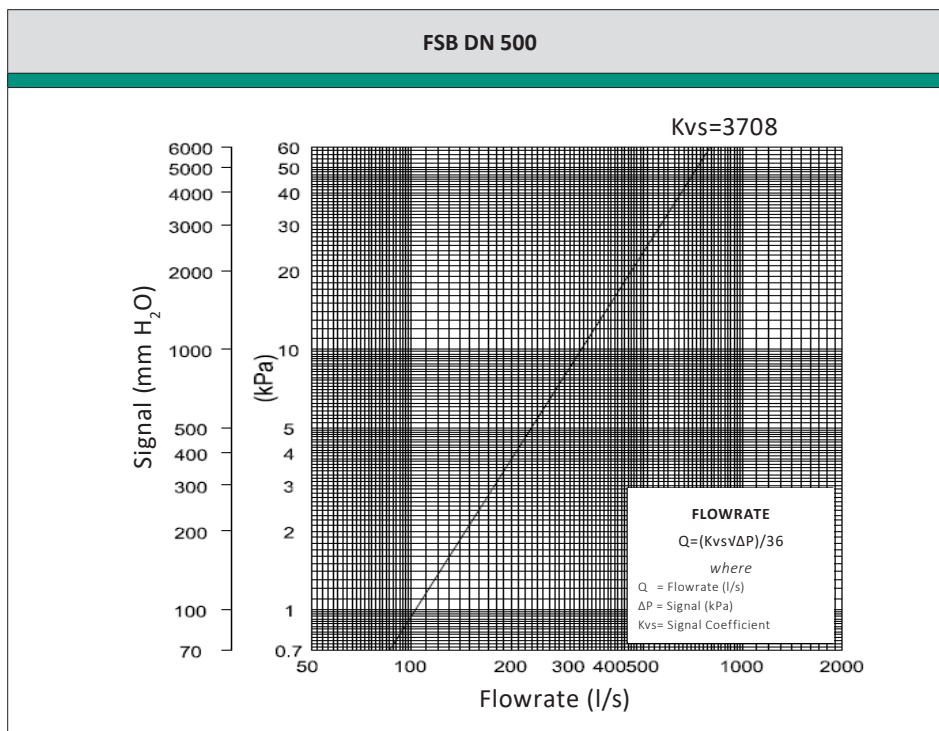
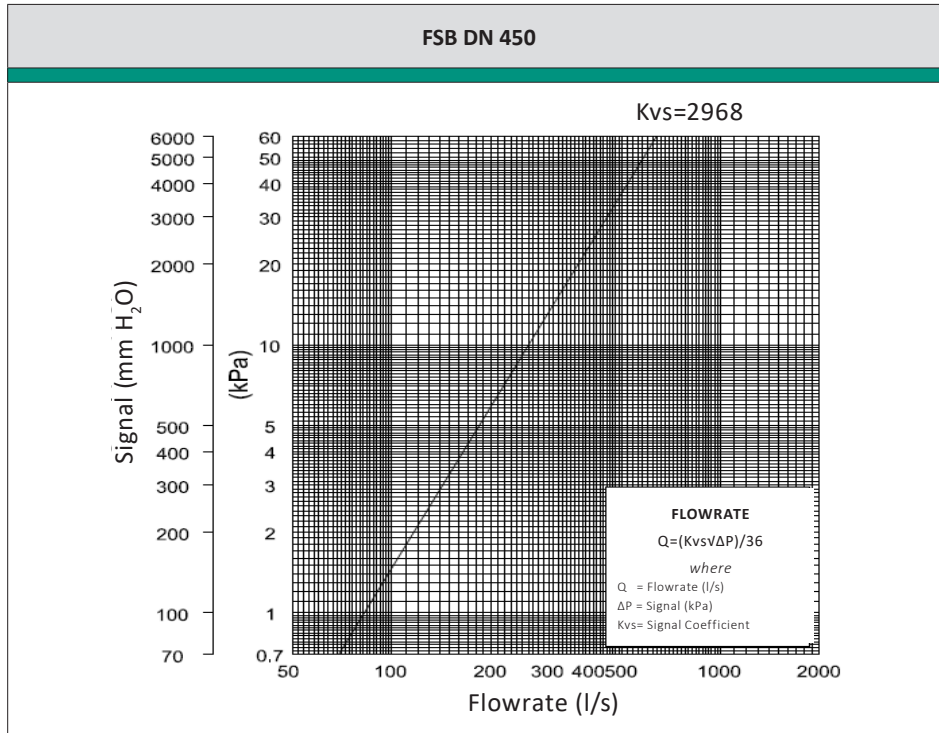
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

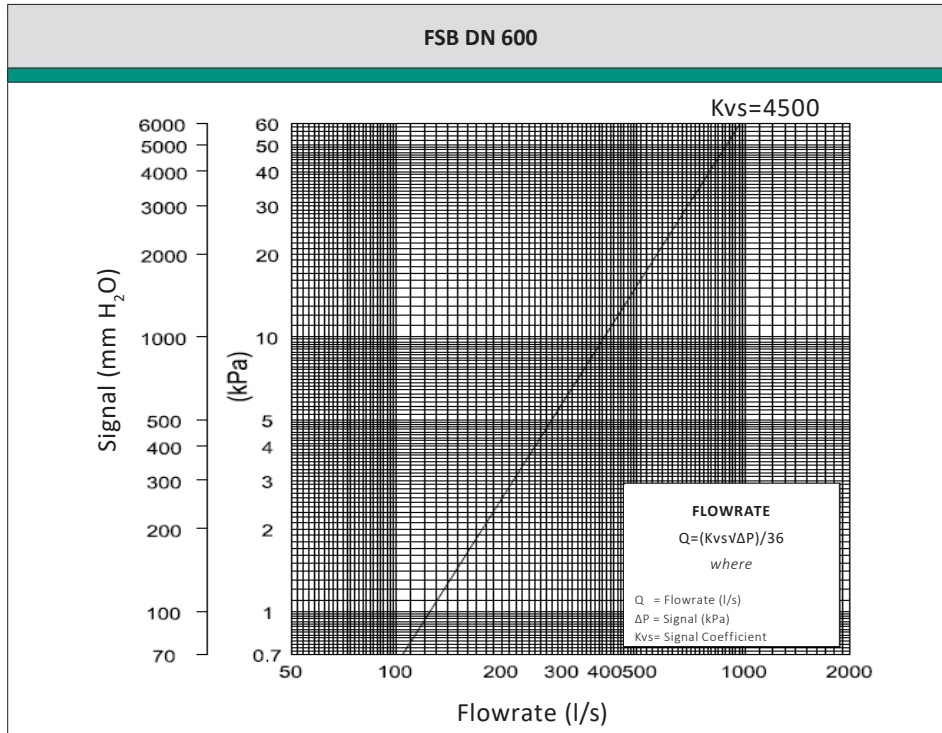
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 16 – Fixed Orifice – EN 1092-2

Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2



FSB series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron - EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to BS 7350:1990

Field of applications

- Temperature range: -10 to 120°C
- Max. working pressure: 25 bar
- Accuracy of flow measurement: ±5%

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

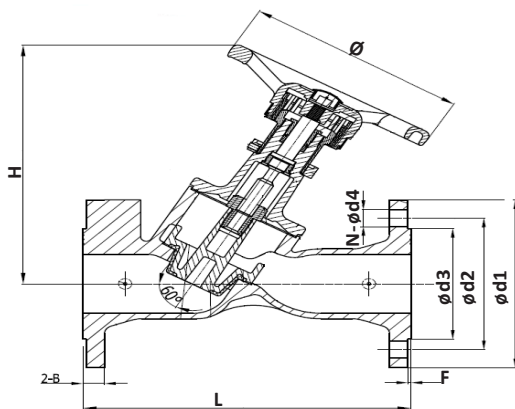
FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated variable orifice. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings.

Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

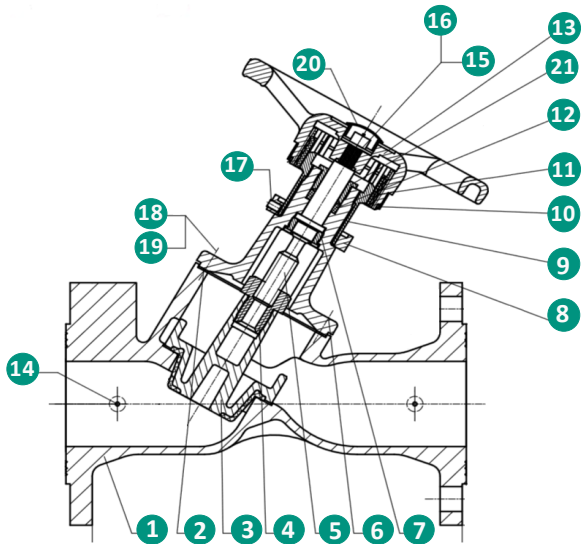
Product code	Size (DN)	H*	L*	B*	Ø*	Ød1*	Ød2*	Ød3*	N-Ød4*	F*	Kg
FSB065N25GV230	65	265	290	19	200	185	145	118	8-Ø19	3	-
FSB080N25GV230	80	270	310	19	200	200	160	132	8-Ø19	3	-
FSB100N25GV230	100	310	350	19	240	235	190	156	8-Ø23	3	-
FSB125N25GV230	125	340	400	19	290	270	220	184	8-Ø28	3	-
FSB150N25GV230	150	340	480	20	290	300	250	211	8-Ø28	3	-
FSB200N25GV230	200	537	600	22	350	360	310	274	12-Ø28	3	-
FSB250N25GV230	250	570	730	24.5	420	425	370	330	12-Ø31	3	-
FSB300N25GV230	300	690	850	27.5	420	485	430	389	16-Ø31	4	-
FSB350N25GV230	350	685	980	30	420	555	490	448	16-Ø34	4	-
FSB400N25GV230	400	965	1100	32	640	620	550	503	16-Ø37	4	-
FSB450N25GV230	450	1020	1200	34.5	640	670	600	548	20-Ø37	4	-
FSB500N25GV230	500	1065	1250	36.5	640	730	660	609	20-Ø37	4	-
FSB600N25GV230	600	1180	1450	40	640	845	770	720	20-Ø41	5	-

*Dimensions are in millimeters

FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

Product Specification

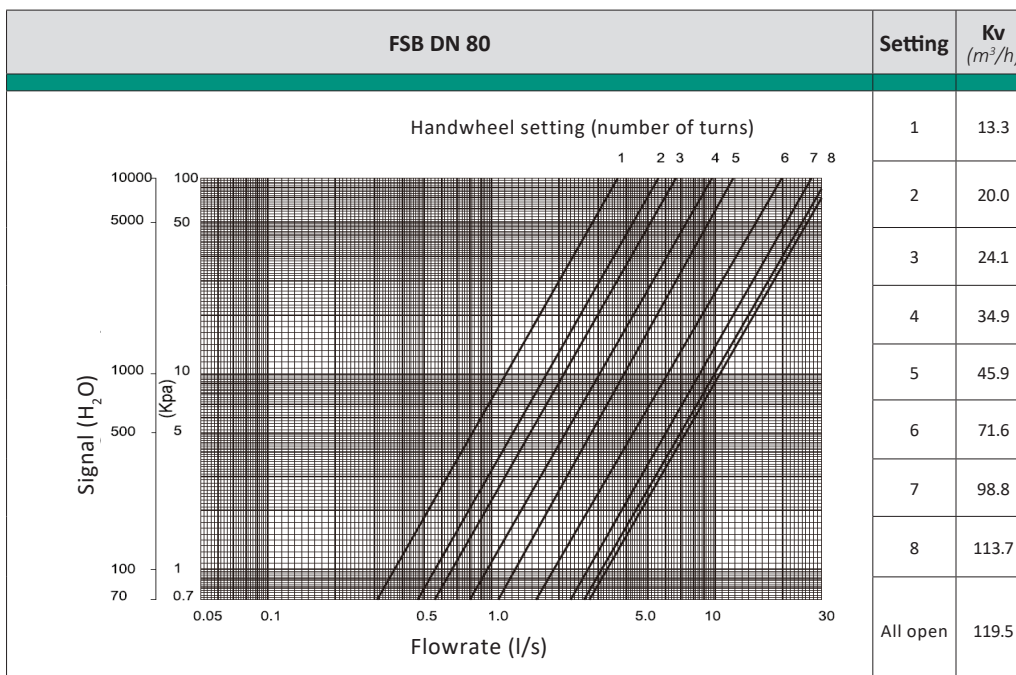
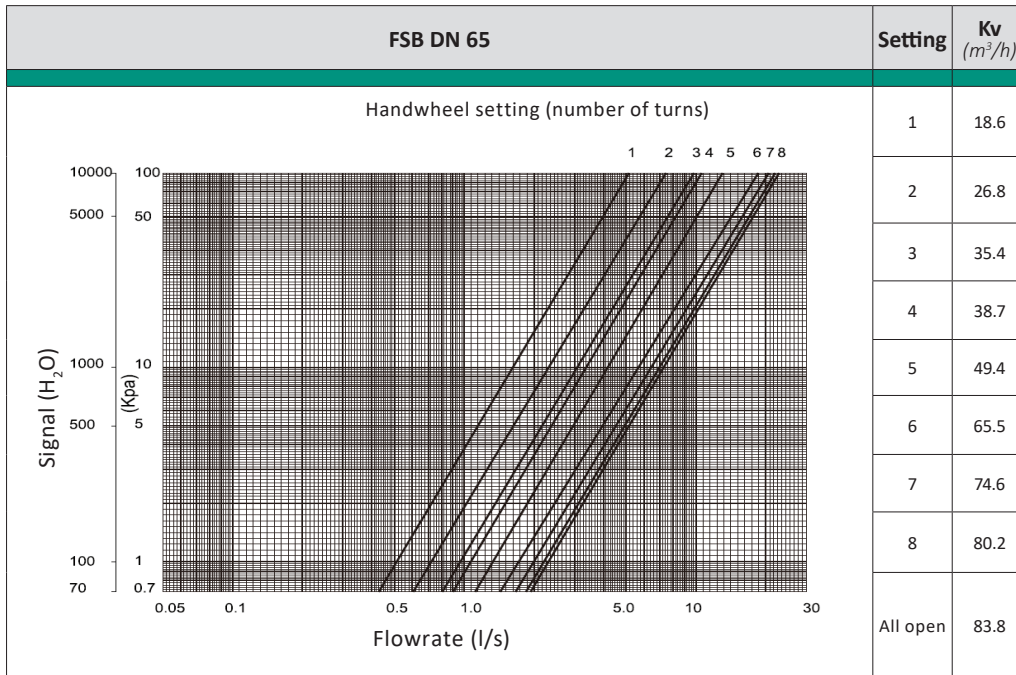


N°	Name	Material
1	Body	Ductile Iron EN JS 1040
2	Seal gasket	EPDM
3	Disc	Ductile Iron EN JS 1040+EPDM
4	Stem nut	Brass CW617N EN 12165
5	Stem	DN 65-150: Stainless Steel BS 970 410 S21 DN 200-600: Stainless Steel BS 970 431 S21
6	Cover	Ductile Iron EN JS 1040
7	Stem lock bushing	Brass CW617N EN 12165
8	Limit set of indicator	DN 65-350: Brass CW617N EN 12165 galvanized e DN 400-600: Stainless Steel BS 970 304 S15
9	Oriented set of indicator	Brass CW617N EN 12165
10	Directed circle	ABS plastic
11	Indicator	ABS plastic
12	Packing	PTFE + EPDM
13	Handwheel	Ductile Iron EN JS 1040
14	Plug	Steel
15	Bolt	Stainless Steel BS 970 304 S15
16	Big gasket	Stainless Steel BS 970 304 S15
17	Hexagon socket screws	Stainless Steel BS 970 304 S15
18	Bolt	Stainless Steel BS 970 304 S15
19	Spring gasket	Stainless Steel BS 970 304 S15
20	Indicator dust cover	ABS plastic

FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

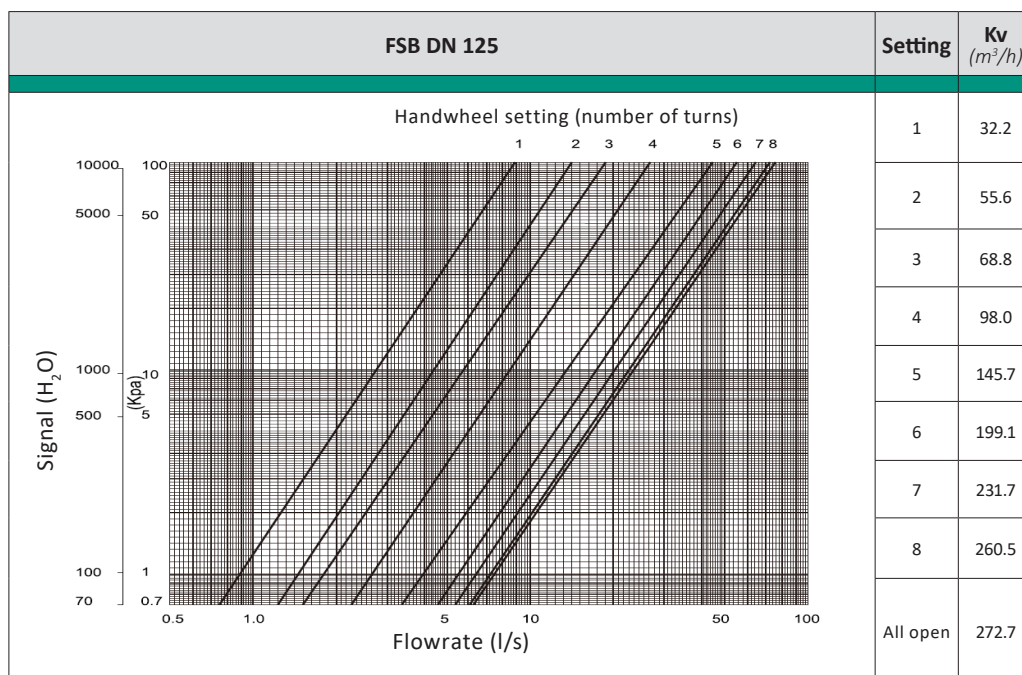
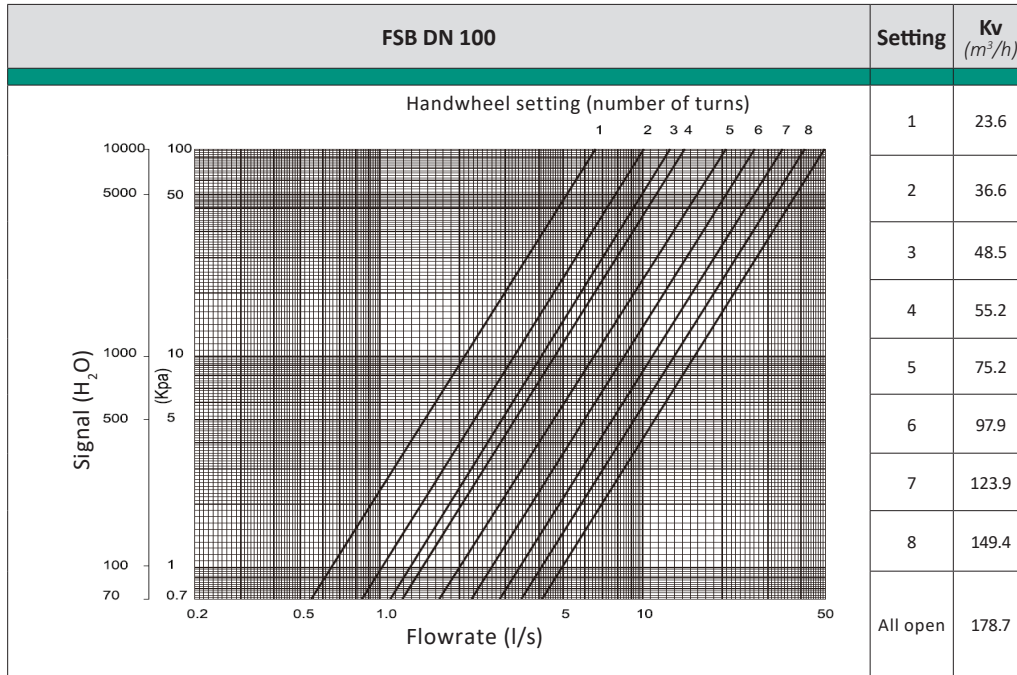
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

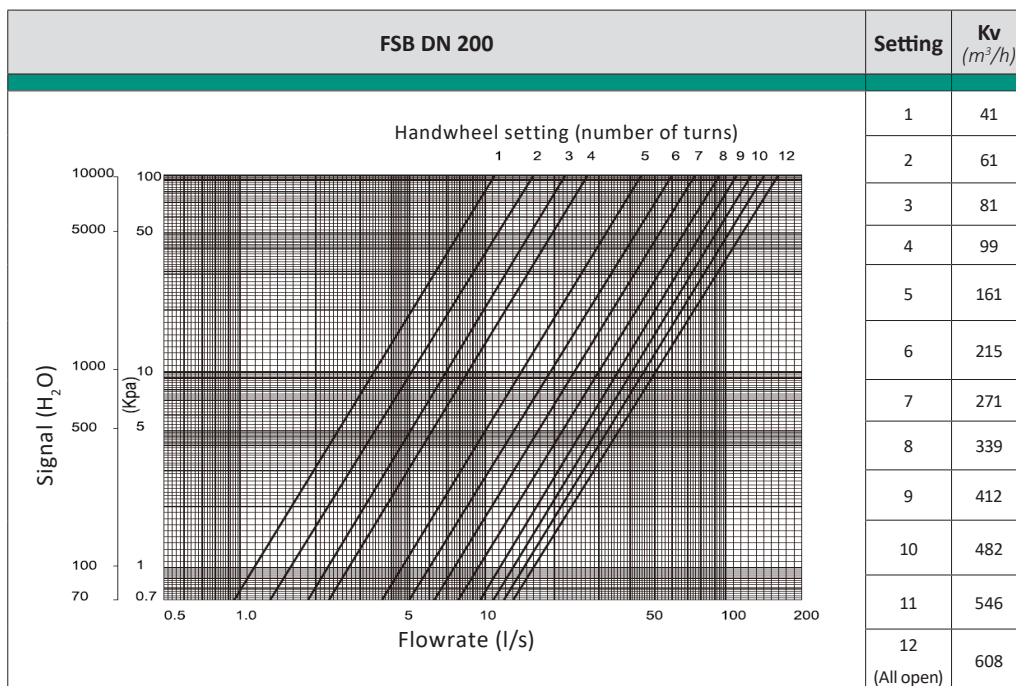
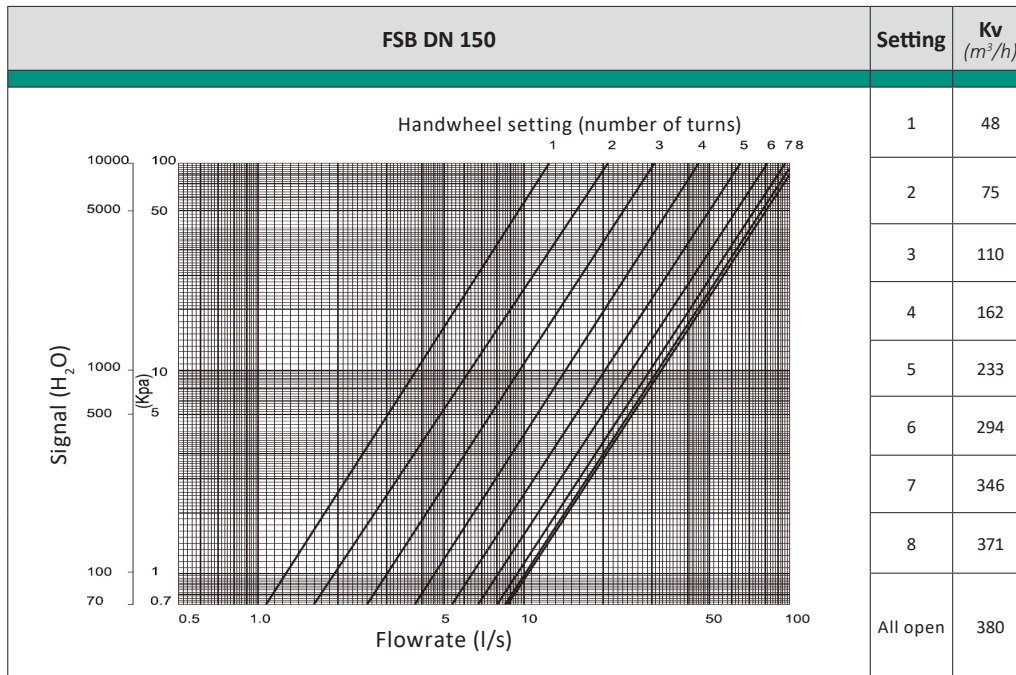
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

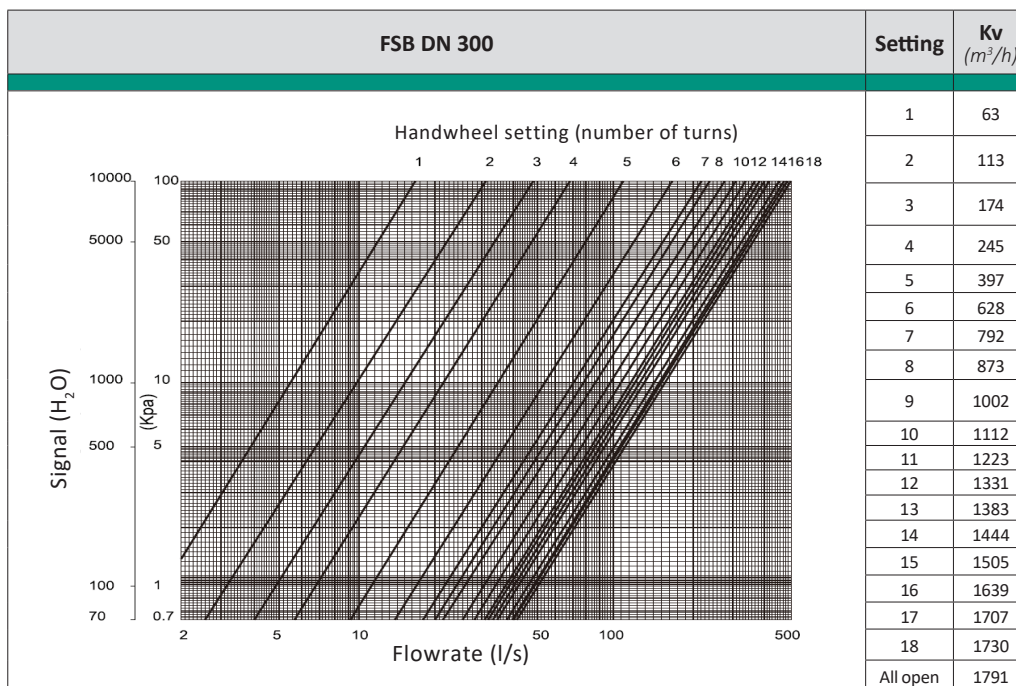
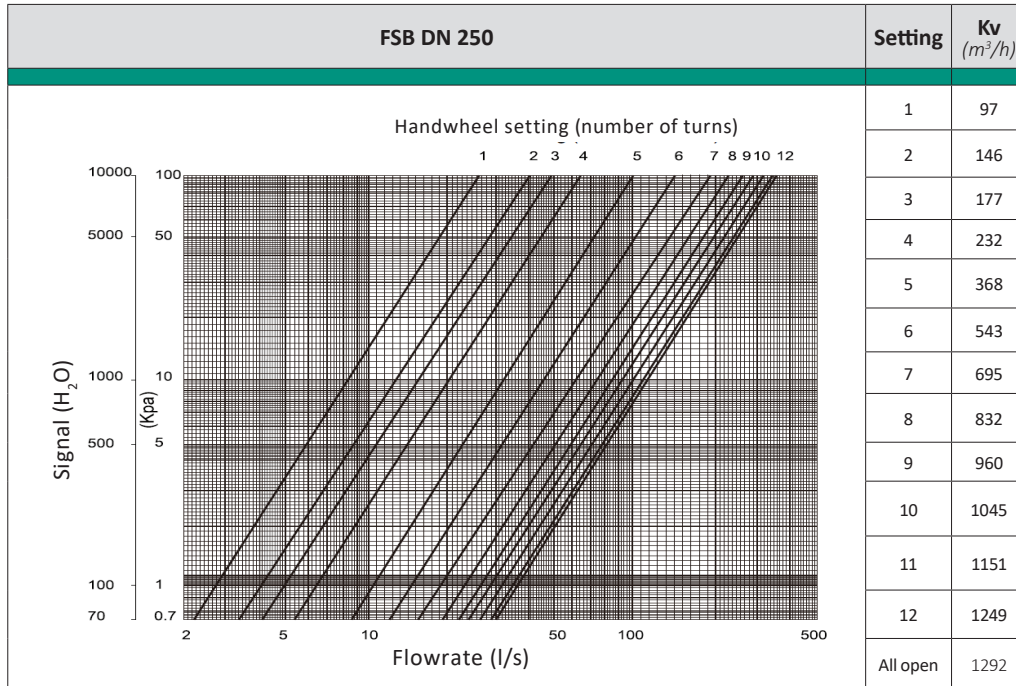
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

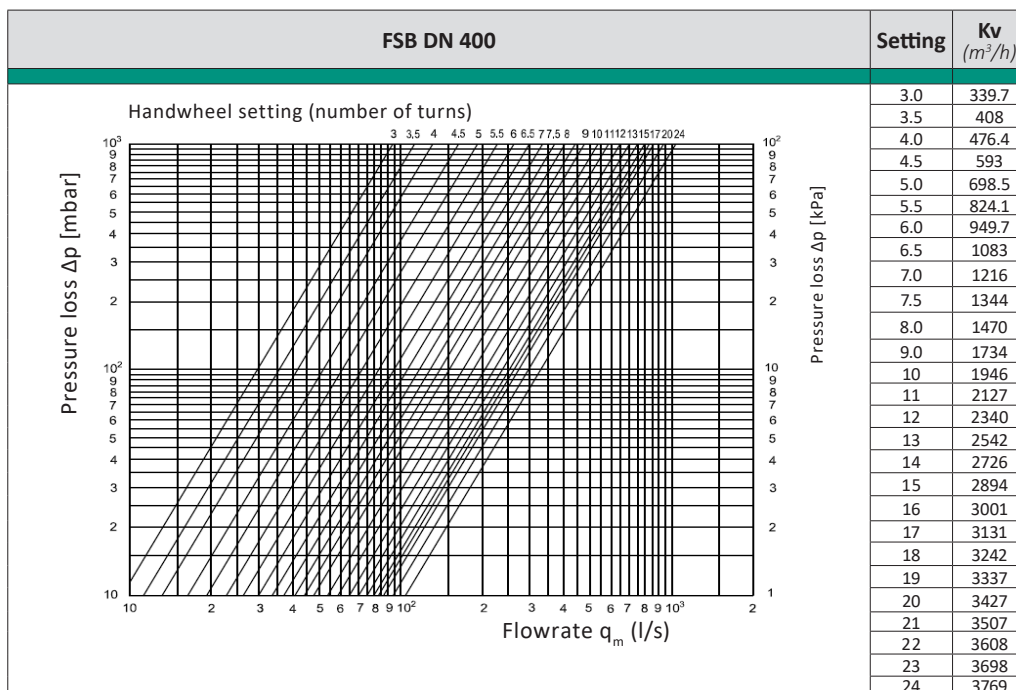
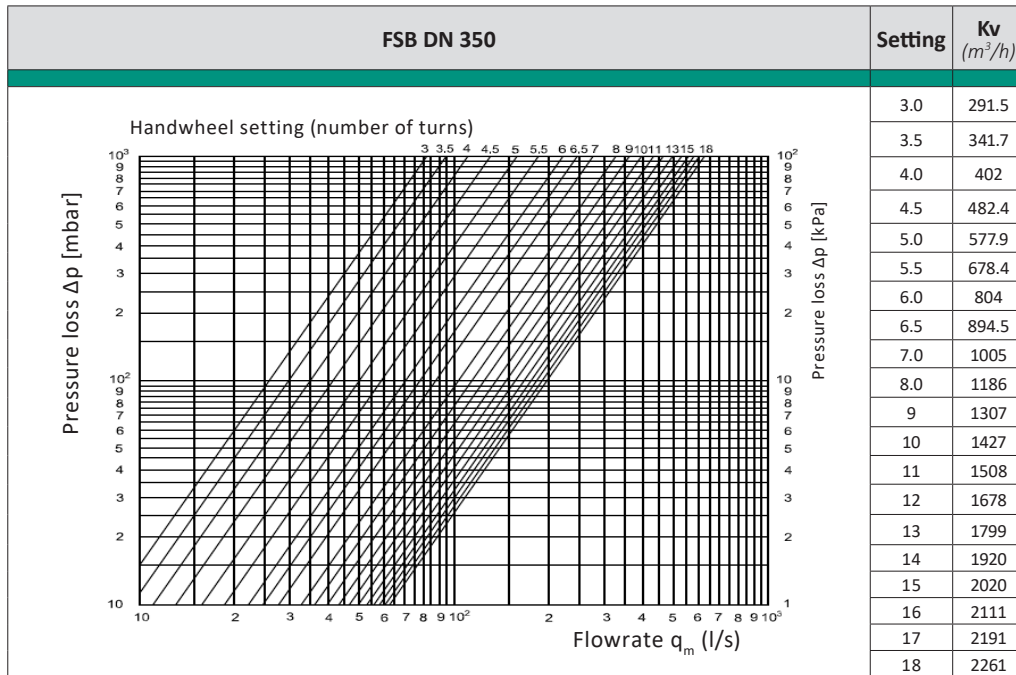
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

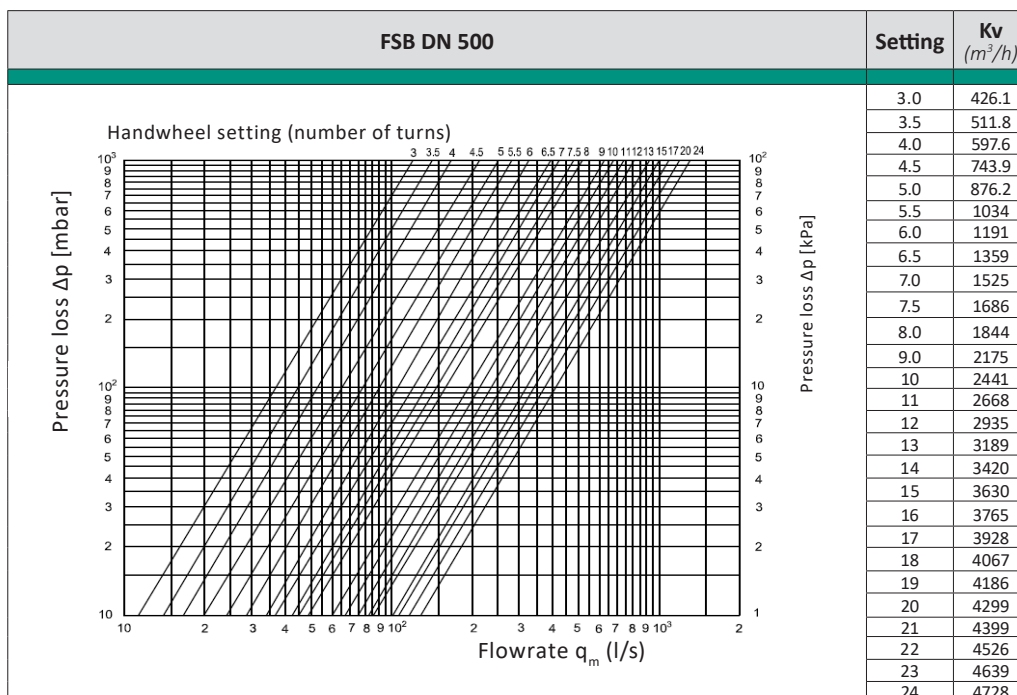
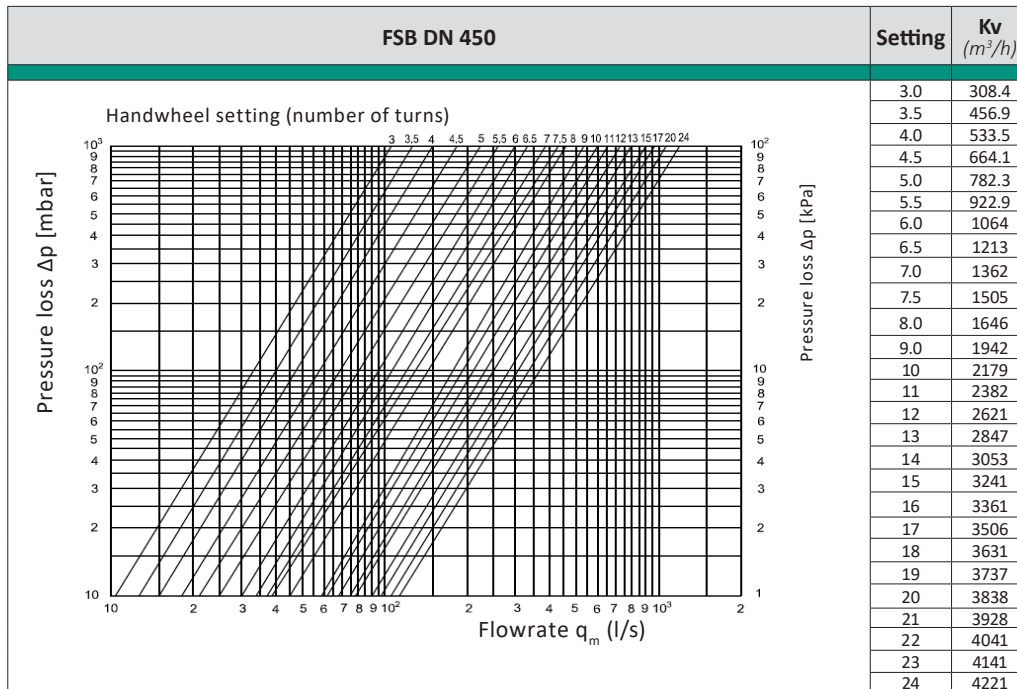
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

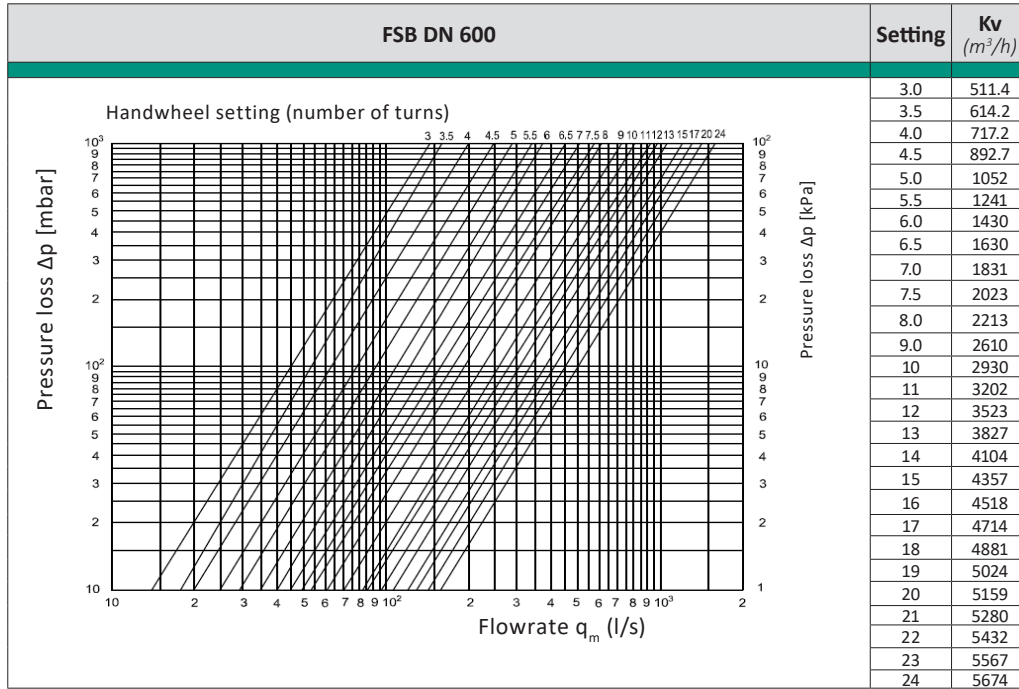
Flow Measurement Graphs



FIVC Static Balancing Valve

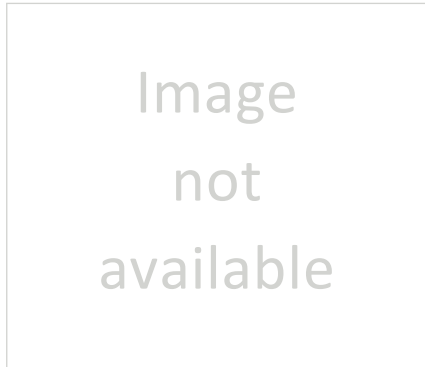
Ductile Iron – PN 25 – Variable Orifice – EN 1092-2

Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2



FSB series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron - EPDM
- Stem: Stainless Steel
- Handwheel: Ductile Iron
- Dimensions: Face-to-Face acc. to BS 7350:1990

Field of applications

- Temperature range: -10 to 120°C
- Max. working pressure: 25 bar
- Accuracy of flow measurement: ±5%

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

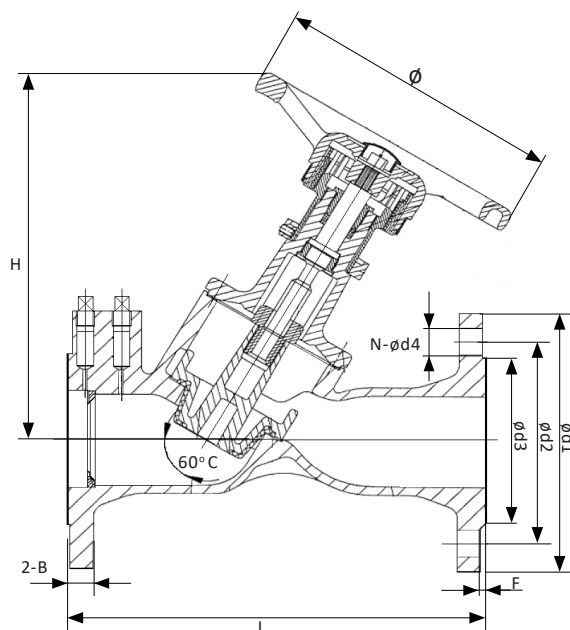
FIVC Static Balancing Valve is designed with integrated pressure probes to determine the flow rate through integrated fixed orifice. The valve controls hydraulic medium flow at HVAC plants and ensures load balance, hence contributes to energy and cost savings.

Further, the FIVC Balancing Valve does, through its reduction of media flow speed, prevents the water hammer phenomenon.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

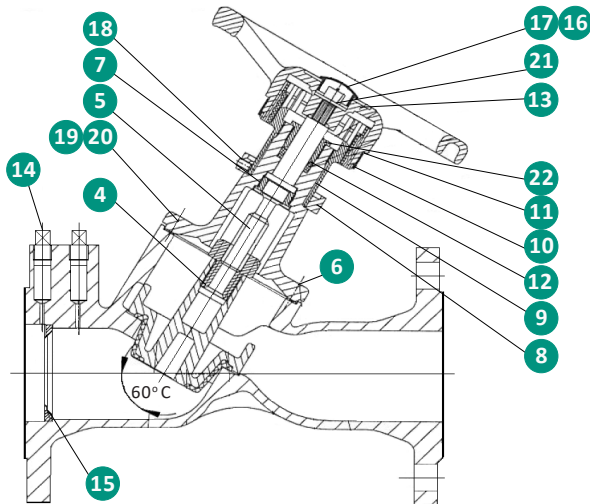
Product code	Size (DN)	H*	L*	B*	ø*	ød1*	ød2*	ød3*	N-ød4*	F*	Kg
FSB065N25GF230	65	265	290	19	200	185	145	118	8-ø19	3	-
FSB080N25GF230	80	270	310	19	200	200	160	132	8-ø19	3	-
FSB100N25GF230	100	310	350	19	240	235	190	156	8-ø23	3	-
FSB125N25GF230	125	340	400	19	290	270	220	184	8-ø28	3	-
FSB150N25GF230	150	340	480	20	290	300	250	211	8-ø28	3	-
FSB200N25GF230	200	537	600	22	350	360	310	274	12-ø28	3	-
FSB250N25GF230	250	570	730	24.5	420	425	370	330	12-ø31	3	-
FSB300N25GF230	300	690	850	27.5	420	485	430	389	16-ø31	4	-
FSB350N25GF230	350	685	980	30	420	555	490	448	16-ø34	4	-
FSB400N25GF230	400	965	1100	32	640	620	550	503	16-ø37	4	-
FSB450N25GF230	450	1020	1200	34.5	640	670	600	548	20-ø37	4	-
FSB500N25GF230	500	1065	1250	36.5	640	730	660	609	20-ø37	4	-
FSB600N25GF230	600	1180	1450	42	640	845	770	720	20-ø41	5	-

*Dimensions are in millimeters

FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

Product Specification

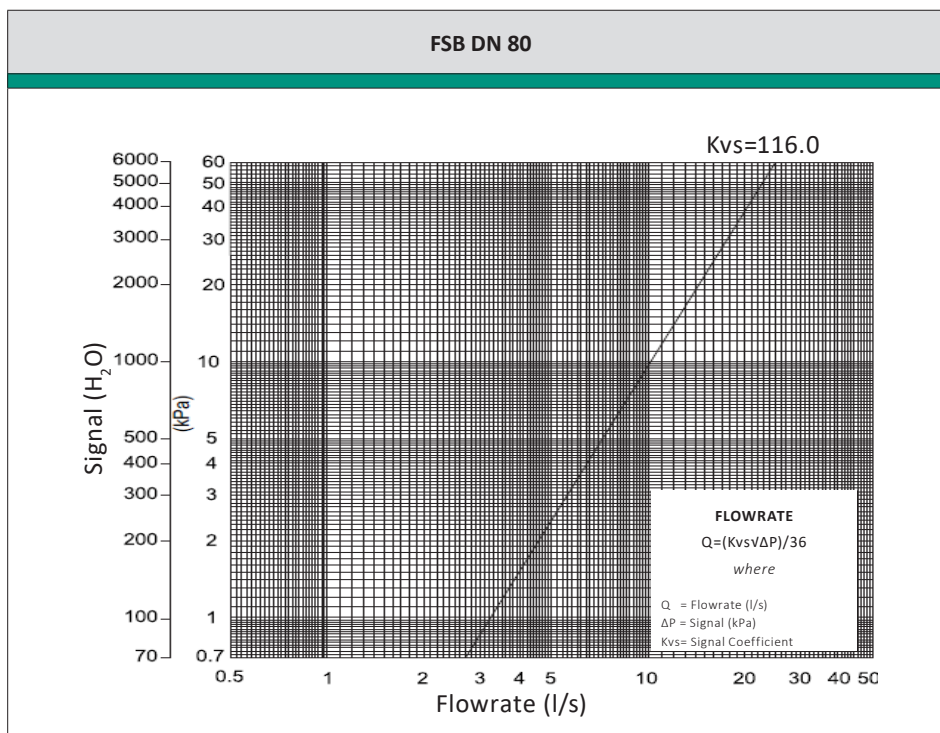
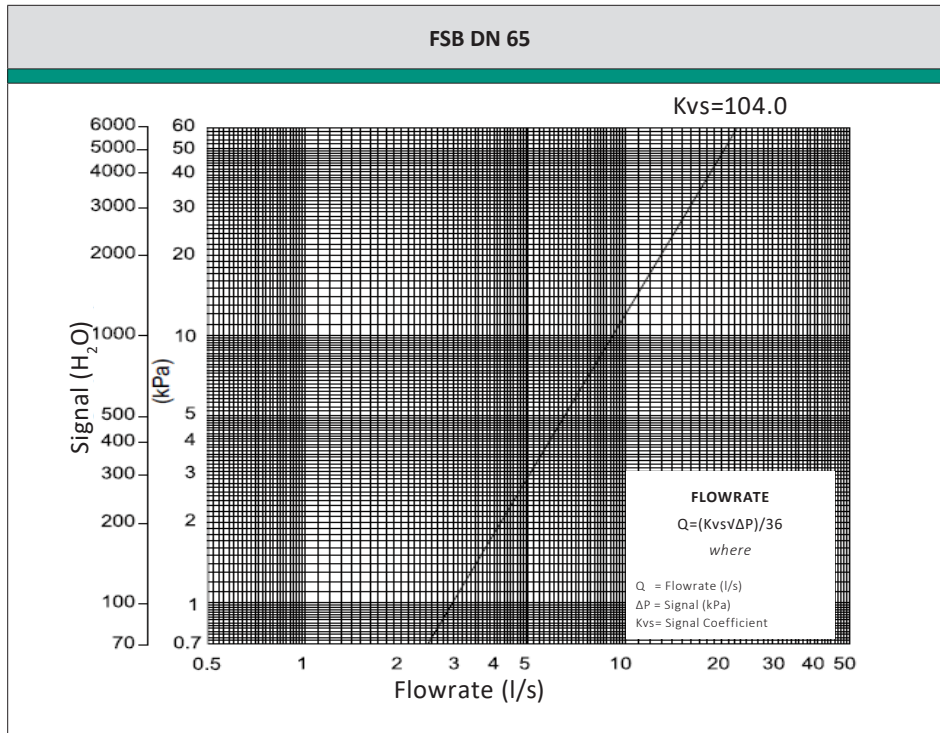


N°	Name	Material
1	Body	Ductile Iron EN JS 1040
2	Seal gasket	EPDM
3	Disc	Ductile Iron EN JS 1040+EPDM
4	Stem nut	Brass CW617N EN 12165
5	Stem	DN 65-150: Stainless Steel BS 970 410 S21 DN 200-600: Stainless Steel BS 970 431 S21
6	Cover	Ductile Iron EN JS 1040
7	Stem lock bushing	Brass CW617N EN 12165
8	Limit set of indicator	DN 65-350: Brass CW617N EN 12165 galvanized DN 400-600: Stainless Steel BS 970 304 S15
9	Oriented set of indicator	Brass CW617N EN 12165
10	Directed circle	ABS plastic
11	Indicator	ABS plastic
12	Packing	PFTE+EPDM
13	Handwheel	Ductile Iron EN JS 1040
14	Plug	Steel
15	Orifice insert	DN 65-300: Brass CW617N EN 12165 DN 350-600: Stainless Steel BS 970 304 S15
16	Bolt	Stainless Steel BS 970 304 S15
17	Big gasket	Stainless Steel BS 970 304 S15
18	Hexagon socket screws	Stainless Steel BS 970 304 S15
19	Bolt	Stainless Steel BS 970 304 S15
20	Spring gasket	Stainless Steel BS 970 304 S15
21	Indicator dust cover	ABS plastic
22	Packing gland	DN 65-150: Brass CW617N EN 12165 DN 200-6000: Ductile Iron EN JS 1040

FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

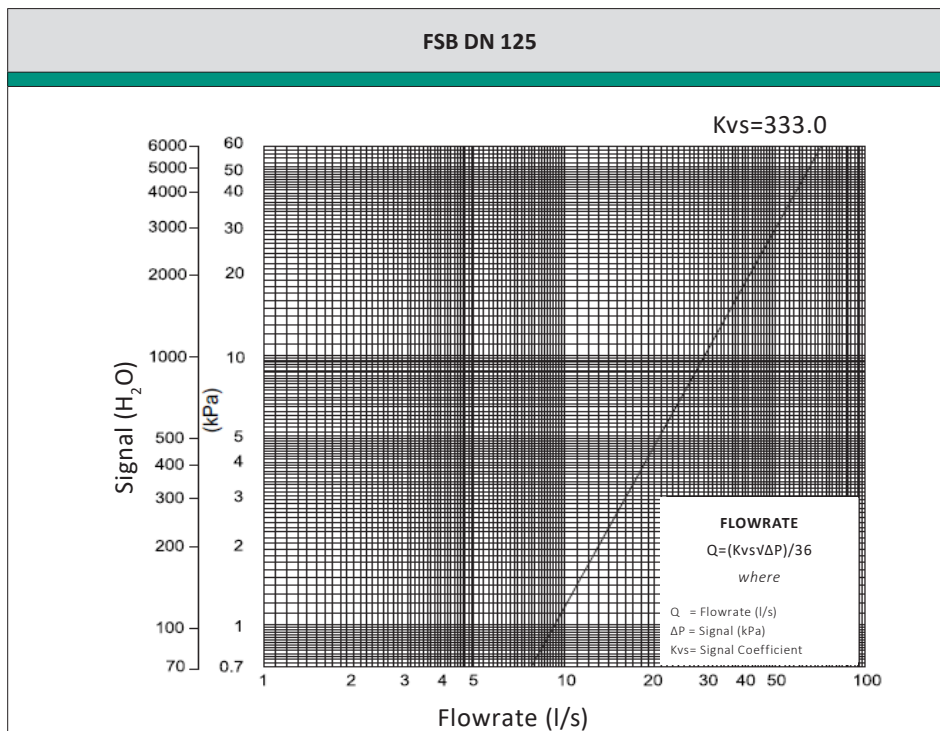
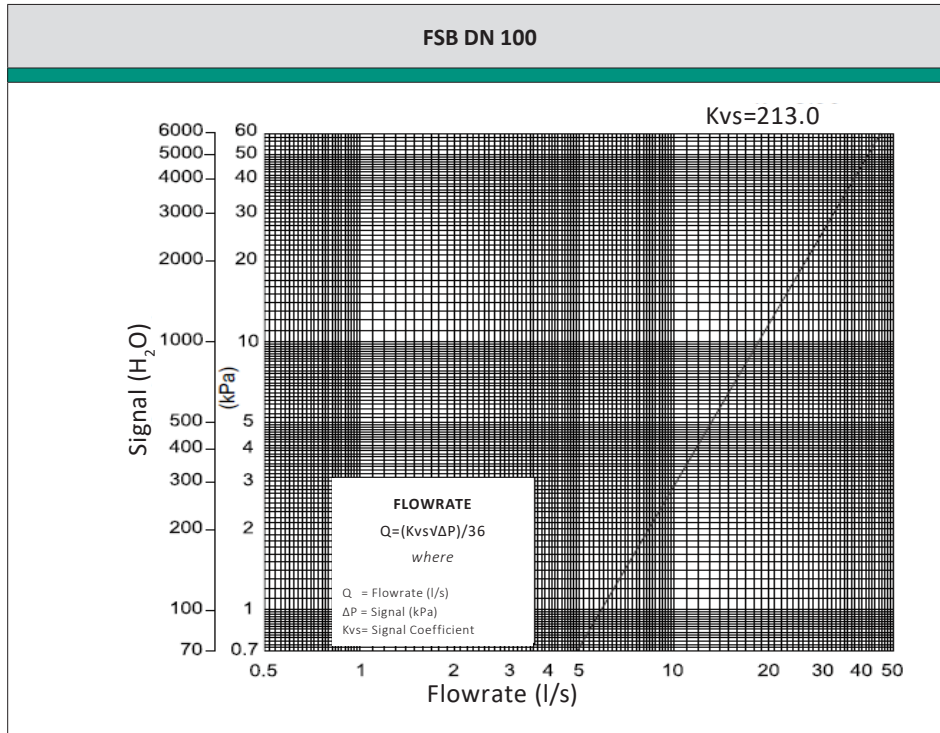
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

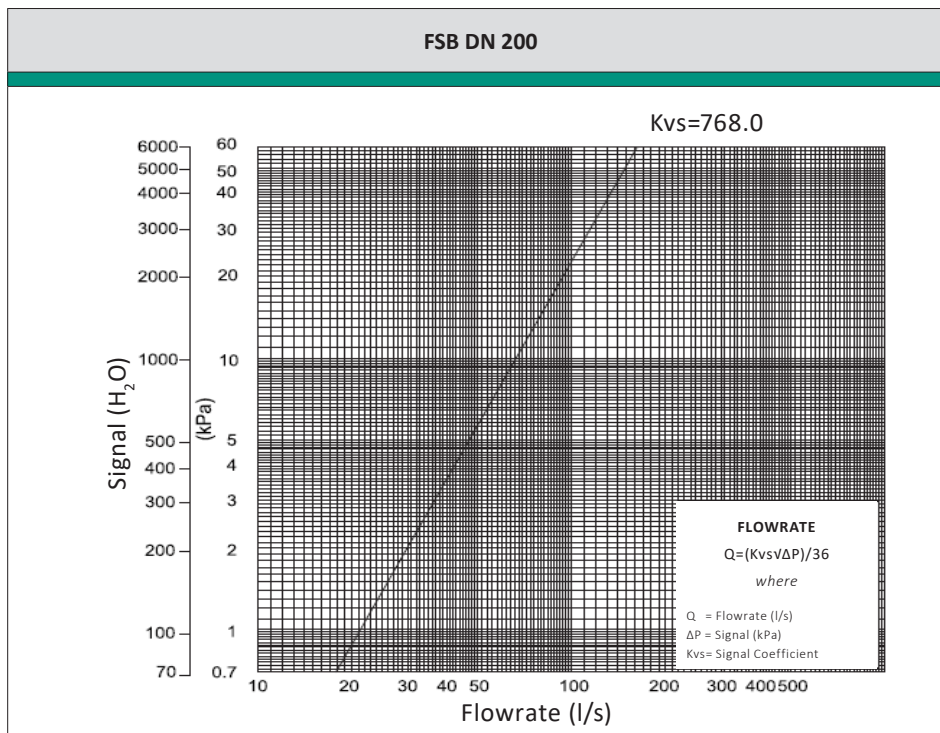
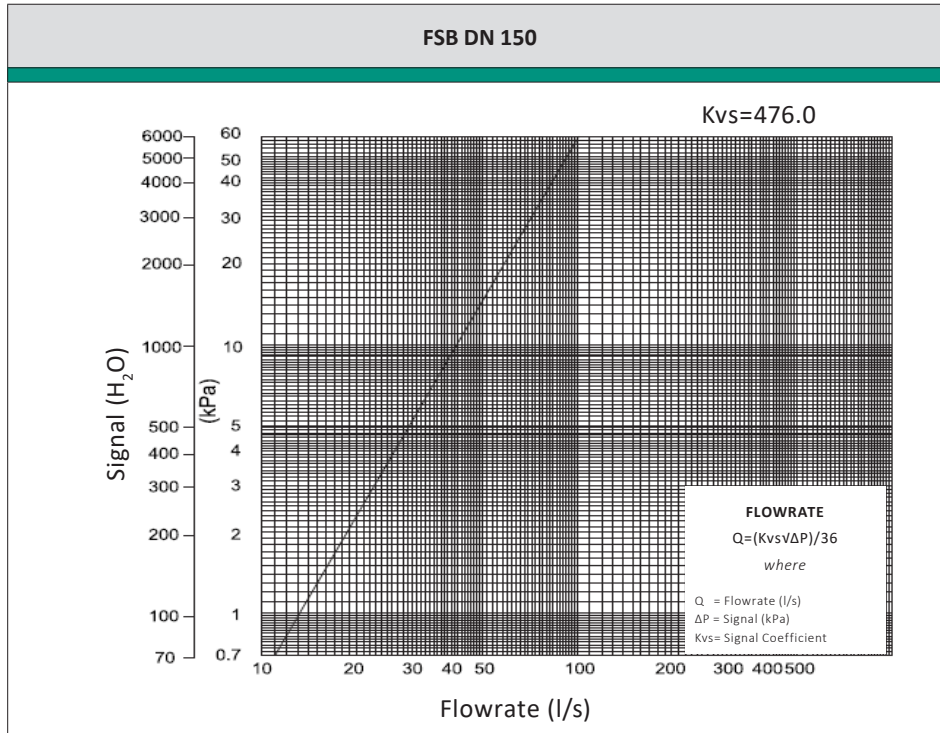
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

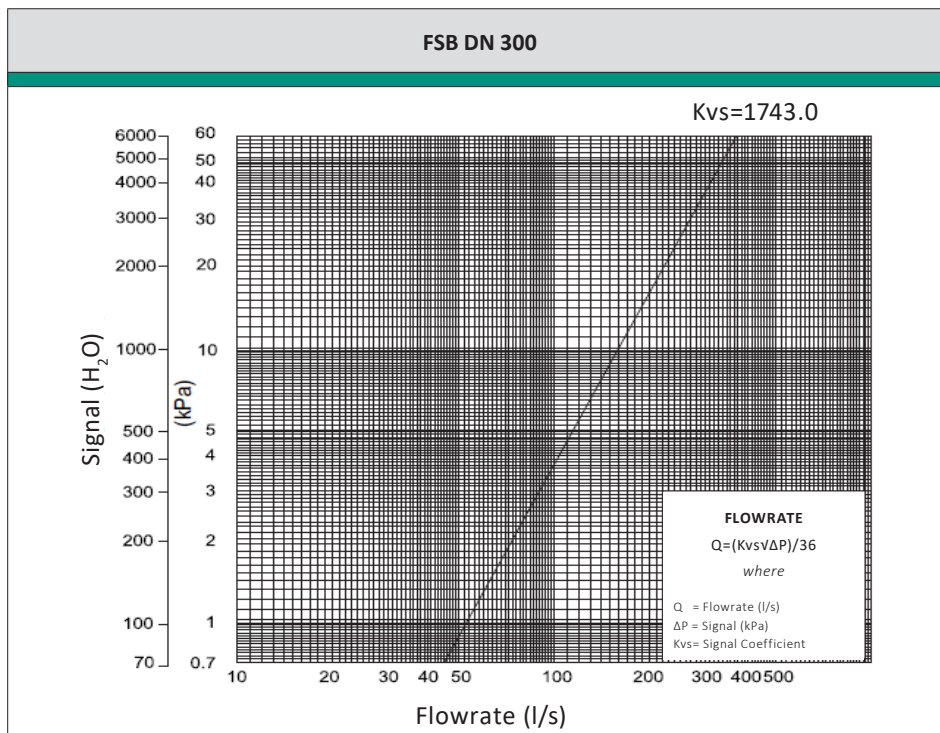
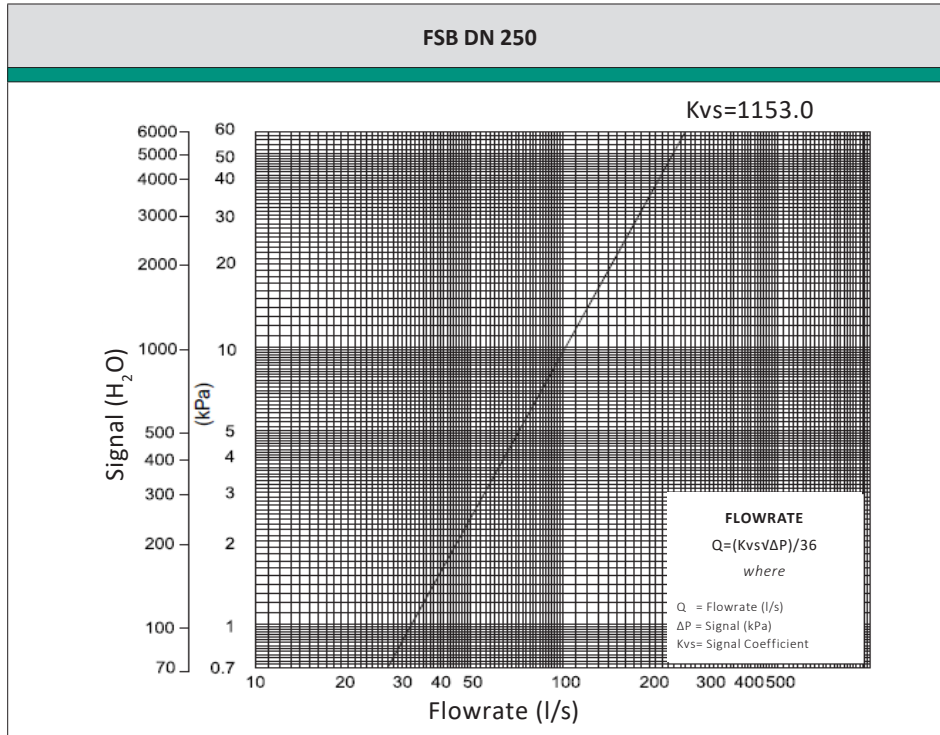
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

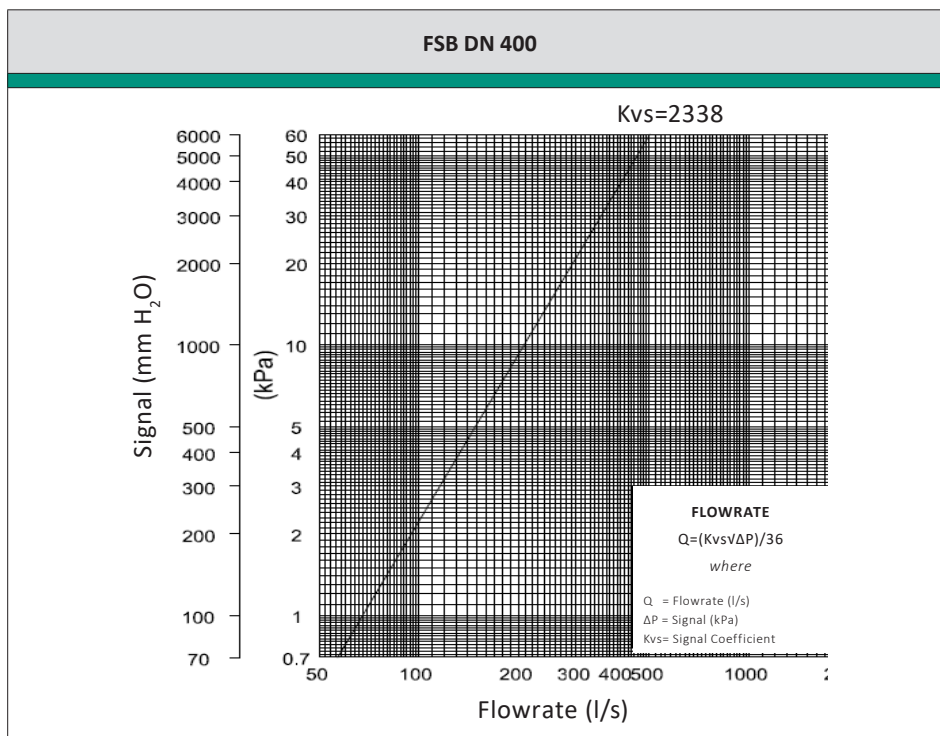
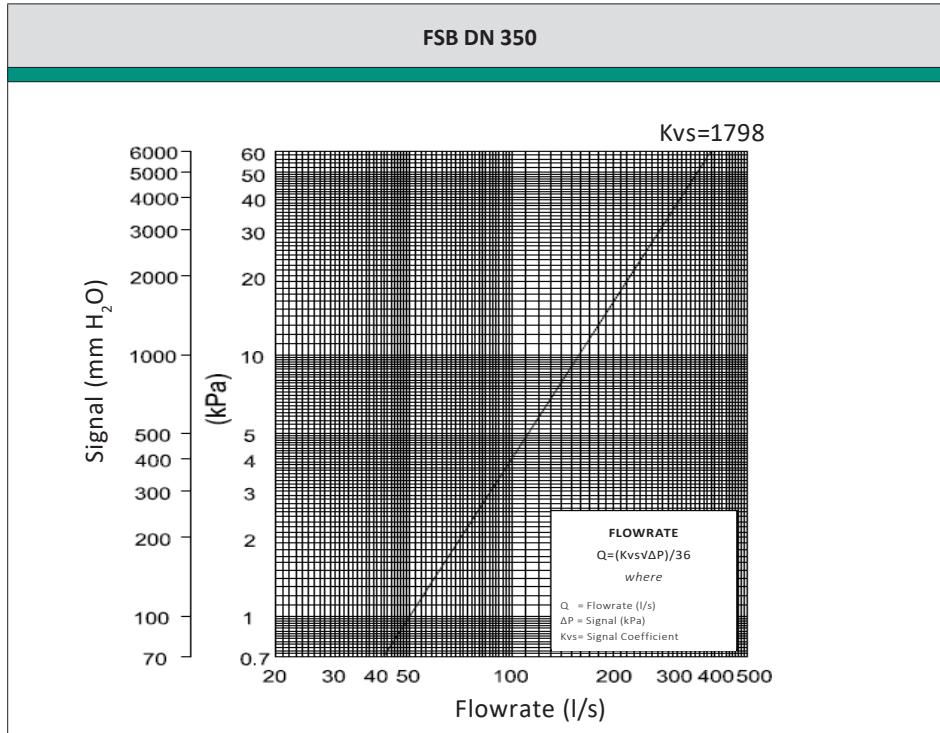
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

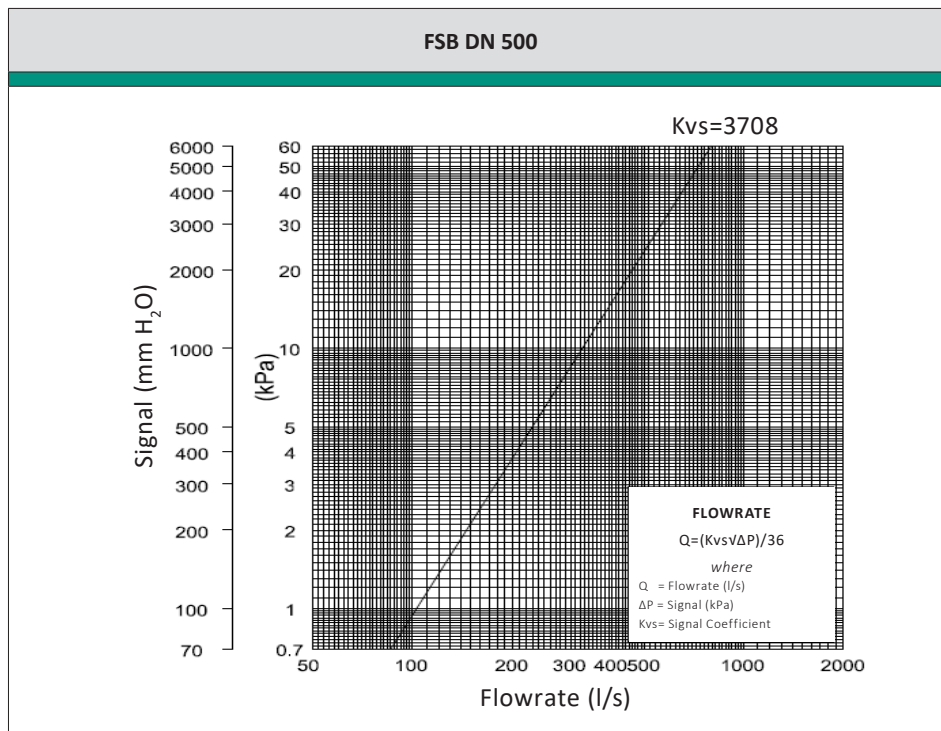
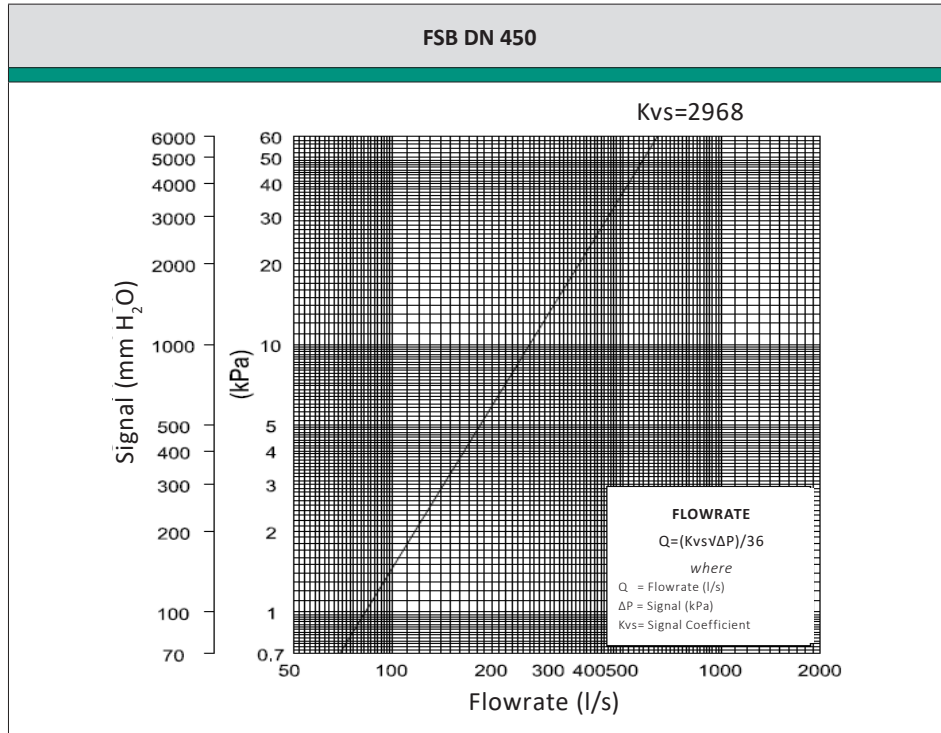
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

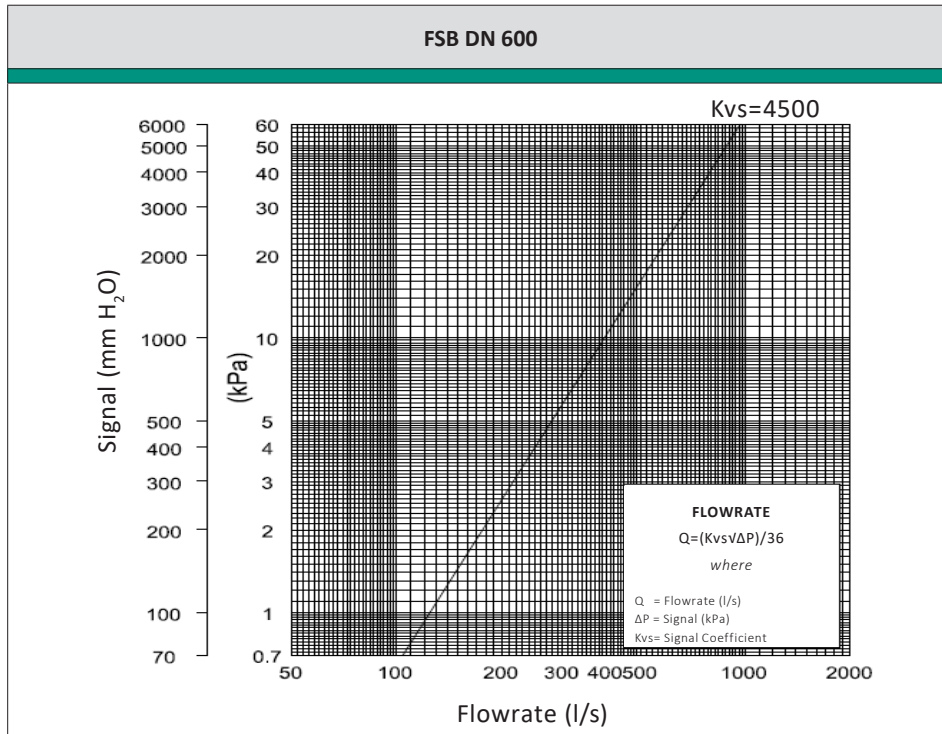
Flow Measurement Graphs



FIVC Static Balancing Valve

Ductile Iron – PN 25 – Fixed Orifice – EN 1092-2

Flow Measurement Graphs



FIVC Digital Measuring Computer PN 20



FDMC series

Technical data

Main features and materials

- Accuracy: +/- 2 pct. or +/- 0.2 kPa
- Measurement Range: 2 kPa to 600 kPa
- Effective operating time: 20 hours (standard Alkaline PP3 battery)
- Database performance: +4300 valves
- USP: Full package (c.f. description) Automatic alerts. Valve data is automatically updated when services by FlowCon. Memorycard included. PcomPRO Project Application Software can be purchased.

Field of applications

- Max. static pressure: 20 bar

Description

FIVC Digital Measuring Computer is designed to perform reliable and easy measurements of flow rates and differential pressures in heating and air conditioning systems. Furthermore, it does enable recording possibilities. With an improved measuring technique and a database performance including over 4300 valves from 67 different manufactures, the FIVC Digital Measuring Computer does deliver the best solution for accurate measurements.

The device does measure the differential pressure across the static balancing valve and as long as the valve is listed in the integrated database, it derives the flowrate from the known characteristics (Kv-values) of the valve.

Besides, the device derives any correction for a specific gravity excluding 1.0, which is then displayed on the screen.

The product is delivered as a full package and provides five (5) menus for ease of use incl. a main-, unit-, display-, damping, and advanced menu. Several functions are associated to the menus.

Further, several spares, accessories, and software can be purchase to the product.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Full Package Description

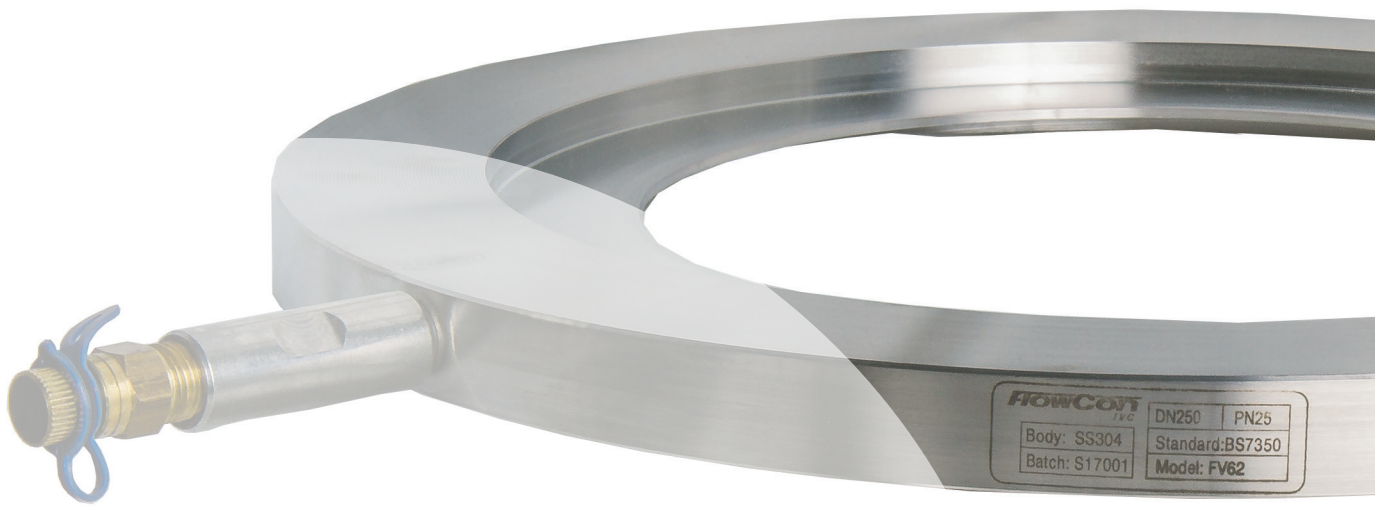
The FIVC Digital Measuring Computer is delivered with below parts:

1. Hand-held electronic manometer (enclosed in a removable rubber protector)
2. Quick-connect tubing set, complete with manually operated isolation valves.
3. Variety of adapters to connect to the majority of balancing valves
4. Toolkit
5. Lanyard for attachment of the unit to pipework etc.
5. Spare battery
6. Instruction manuals (Quick Start Guide and Menu Map).

All above are incorporated in a lightweight carrycase.

Specific Gravity of Water/Glycol mixtures

Tempera- ° Celsius	% Glycol additive										
	0	10	20	30	40	50	60	70	80	90	100
80	-	-	0.991	1.003	1.017	1.026	1.036	1.046	1.054	1.062	1.068
70	-	0.990	1.000	1.010	1.023	1.034	1.042	1.053	1.062	1.069	1.075
60	-	0.995	1.007	1.017	1.030	1.041	1.050	1.060	1.070	1.076	1.083
50	-	1.000	1.013	1.013	1.035	1.048	1.057	1.067	1.077	1.084	1.090
40	0.990	1.004	1.018	1.029	1.042	1.054	1.064	1.074	1.085	1.091	1.098
30	0.996	1.007	1.022	1.034	1.047	1.059	1.070	1.080	1.092	1.099	1.105
20	0.999	1.010	1.026	1.038	1.052	1.065	1.076	1.088	1.099	1.106	1.114
10	1.000	1.013	1.028	1.042	1.056	1.070	1.082	1.094	1.105	1.113	1.120
0	1.000	1.015	1.029	1.045	1.061	1.075	1.088	1.100	1.112	1.120	1.128
-10	-	-	-	1.048	1.065	1.079	1.092	1.107	1.118	1.127	1.135
-20	-	-	-	-	1.068	1.083	1.097	1.113	1.124	1.133	1.136
-30	-	-	-	-	-	1.087	1.100	1.118	1.128	1.137	1.137
-40	-	-	-	-	-	-	1.102	1.122	1.133	1.138	1.138



FIVC Metering Station

FIVC Metering Station

Stainless Steel – PN 16 – Wafer – EN 1092-2



FOP series

Technical data

Main features and materials

- Body: Stainless Steel
- Extension rod: Stainless Steel
- Test points: DZR Brass
- USP: Upstream/downstream identification colors for test points.
Horizontal and vertical installation.
Accurate flow measurement
Cost and maintenance efficient

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 16 bar
- Heating and chilled water HVAC systems

Description

FIVC Metering Station Valve is a precision manufactured product that has the purpose to measure the accurate water flow in HVAC systems. With its robust design, this Metering Station can fit between many sizes of EN 1092-2 flanges. In order to be able to identify upstream and downstream ports, two different colors are used for the integrated orifice test points (Upstream: Red - Downstream: Blue).

Please note that the fluid to be transported is limited to non-hazardous Group 2 liquids and on no account must the

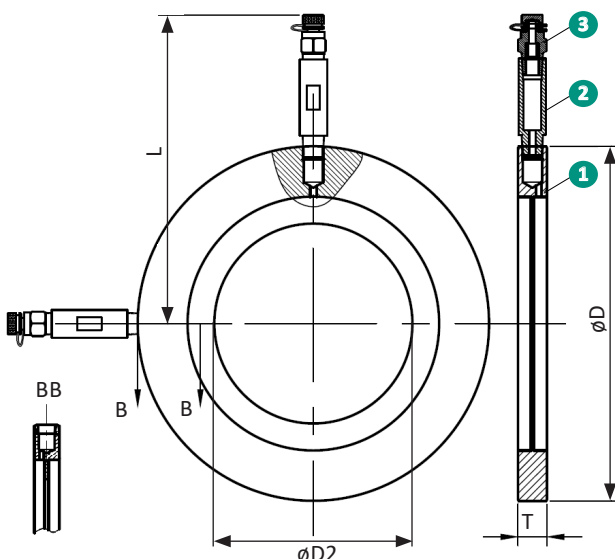
metering station be used on Group 1 gases, Group 1 liquids and Group 2 gases.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive No 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	ØD*	ØD2*	T*	CV (gal/)	Kv (m ³ /h)	Kg
FOP050ST16511	50	135.5	108	39	20	55	47.5	1.1
FOP065ST16511	65	145	127	54	20	103	88.6	1.3
FOP080ST16511	80	153.3	143.5	65	20	176	150.6	1.7
FOP100ST16511	100	163.3	163.5	84.05	20	328	281.1	2.2
FOP125ST16511	125	178.3	193.5	103	20	384	328.8	3.3
FOP150ST16511	150	191.5	220	125.2	20	557	477.5	3.6
FOP200ST16511	200	219.8	274.5	164	20	964	826	5.5
FOP250ST16511	250	247.8	332.5	202.5	20	1421	1218	6.1
FOP300ST16511	300	274	385	243.5	20	2094	1794	11
FOP350ST16511	350	304	445	270	20	2484	2128.3	13.8
FOP400ST16511	400	329	495	308	20	3228	2765.8	16.8
FOP450ST16511	450	359	555	342	30	3939	3375.4	30.8
FOP500ST16511	500	390	617	388	30	5143	4407.1	33
FOP600ST16511	600	448.5	734	478	30	8007	6860.9	43.5

*Dimensions are in millimeters

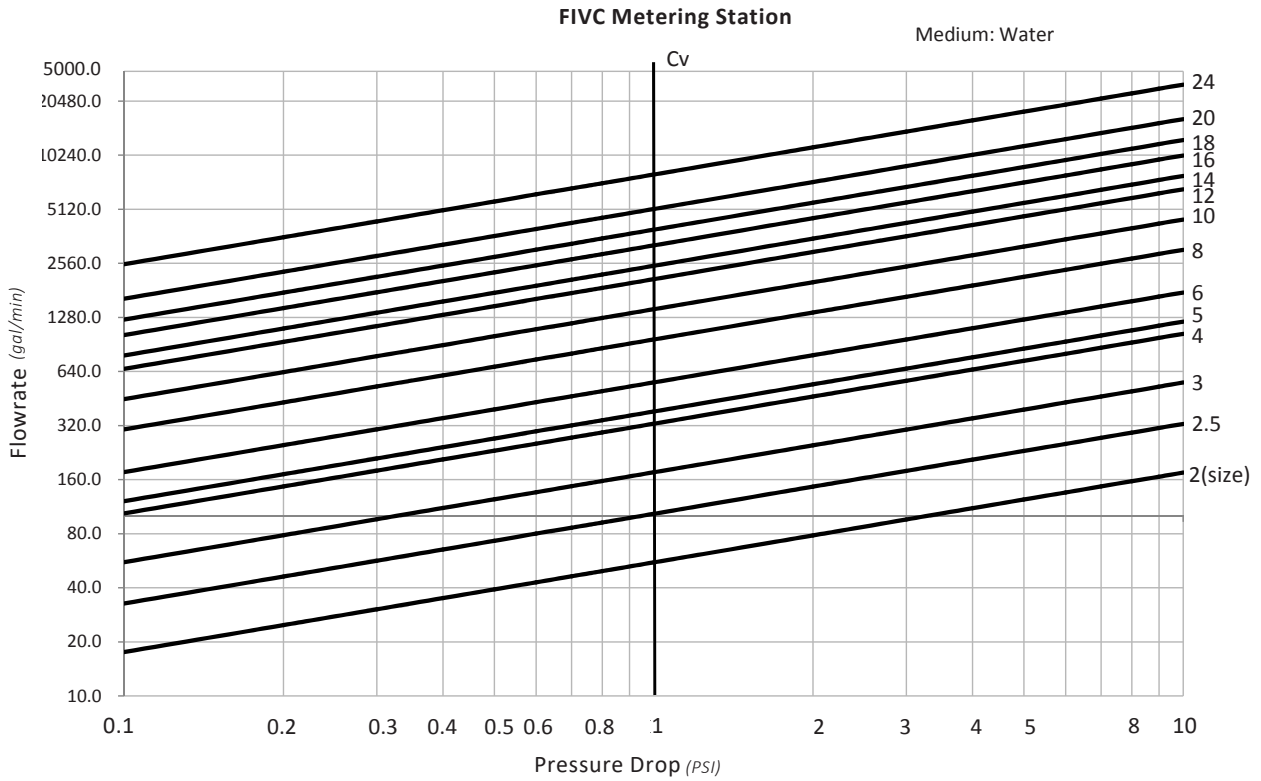
Product Specification

N°	Name	Material
1	Body	Stainless Steel SS 304
2	Extension rod	Stainless Steel SS 304
3	Test point	DZR Brass

FIVC Metering Station

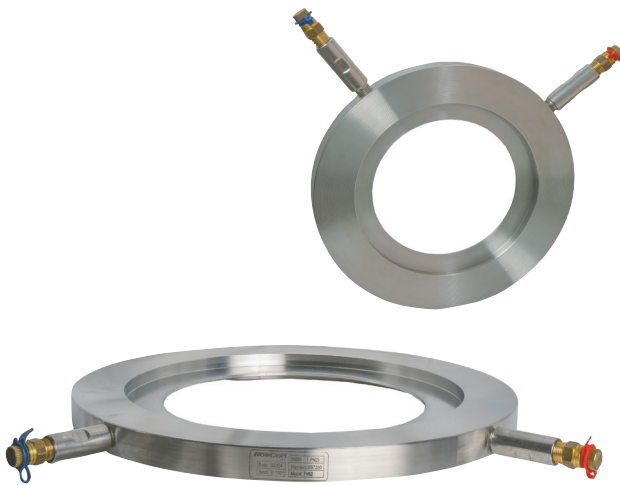
Stainless Steel – PN 16 – Wafer – EN 1092-2

Flowrate Measurement Graph



FIVC Metering Station

Stainless Steel – PN 25 – Wafer – EN 1092-2



FOP series

Technical data

Main features and materials

- Body: Stainless Steel
- Extension rod: Stainless Steel
- Test points: DZR Brass
- USP: Upstream/downstream identification colors for test points.
Horizontal and vertical installation.
Accurate flow measurement
Cost and maintenance efficient

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 25 bar

- Heating and chilled water HVAC systems

Description

FIVC Metering Station Valve is a precision manufactured product that has the purpose to measure the accurate water flow in HVAC systems. With its robust design, this Metering Station can fit between many sizes of EN 1092-2 flanges. In order to be able to identify upstream and downstream ports, two different colors are used for the integrated orifice test points (Upstream: Red - Downstream: Blue).

Please note that the fluid to be transported is limited to non-hazardous Group 2 liquids and on no account must the

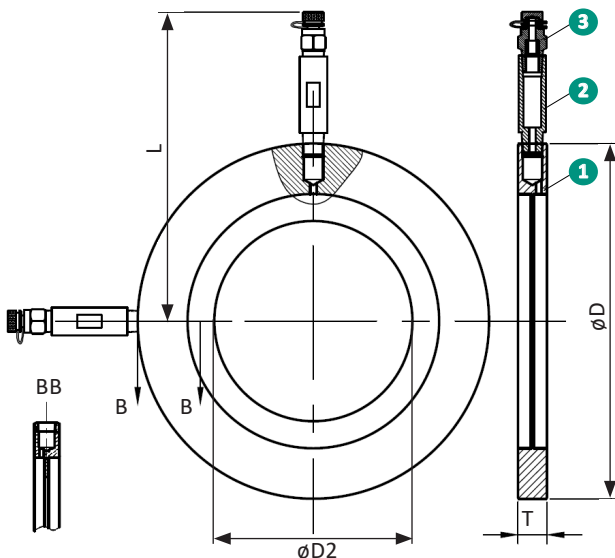
metering station be used on Group 1 gases, Group 1 liquids and Group 2 gases.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP.

Acc. to the European PED Directive No 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	ϕD^*	$\phi D2^*$	T*	CV (gal/min)	Kv (m ³ /h)	Kg
FOP050ST25511	50	135.5	108	39	20	55	47.5	1.1
FOP065ST25511	65	145	127	54	20	103	88.6	1.3
FOP080ST25511	80	152.5	142	65	20	176	150.6	2
FOP100ST25511	100	165.5	168	84	20	328	281.1	2.5
FOP125ST25511	125	178.5	194	103	20	384	328.8	3.3
FOP150ST25511	150	193.5	224	125.2	20	557	477.5	3.8
FOP200ST25511	200	223.5	284	164	20	964	826	5.8
FOP250ST25511	250	251.5	340	202.5	20	1421	1218	6.5
FOP300ST25511	300	281.5	400	243.5	20	2094	1794	12
FOP350ST25511	350	310	457	270	20	2484	2128.3	14.5
FOP400ST25511	400	338.5	514	308	20	3228	2765.8	18
FOP450ST25511	450	363.5	564	342	30	3939	3375.4	31.5
FOP500ST25511	500	393.5	624	388	30	5143	4407.1	33.5
FOP600ST25511	600	446.5	730	478	30	8007	6860.9	43.5

*Dimensions are in millimeters • The CV and KV values are related to the differential pressure.

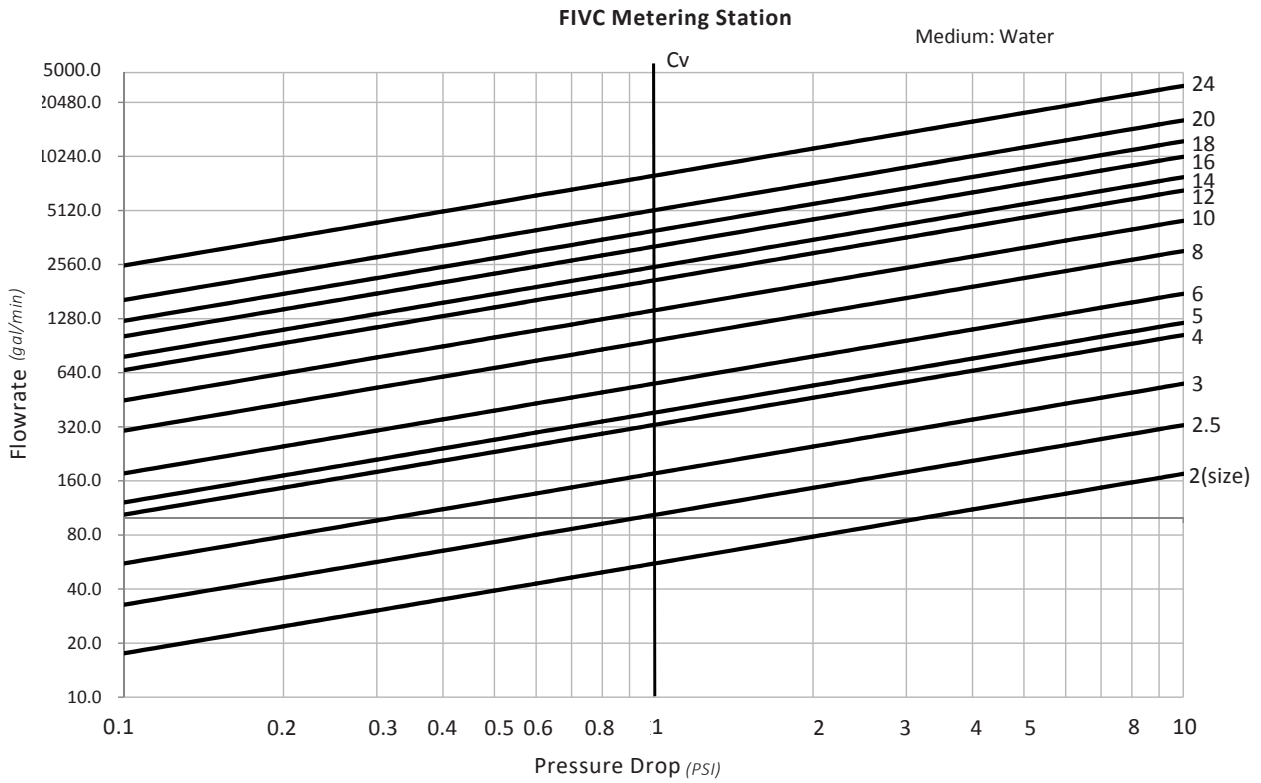
Product Specification

N°	Name	Material
1	Body	Stainless Steel SS
2	Extension rod	Stainless Steel SS
3	Test point	DZR Brass

FIVC Metering Station

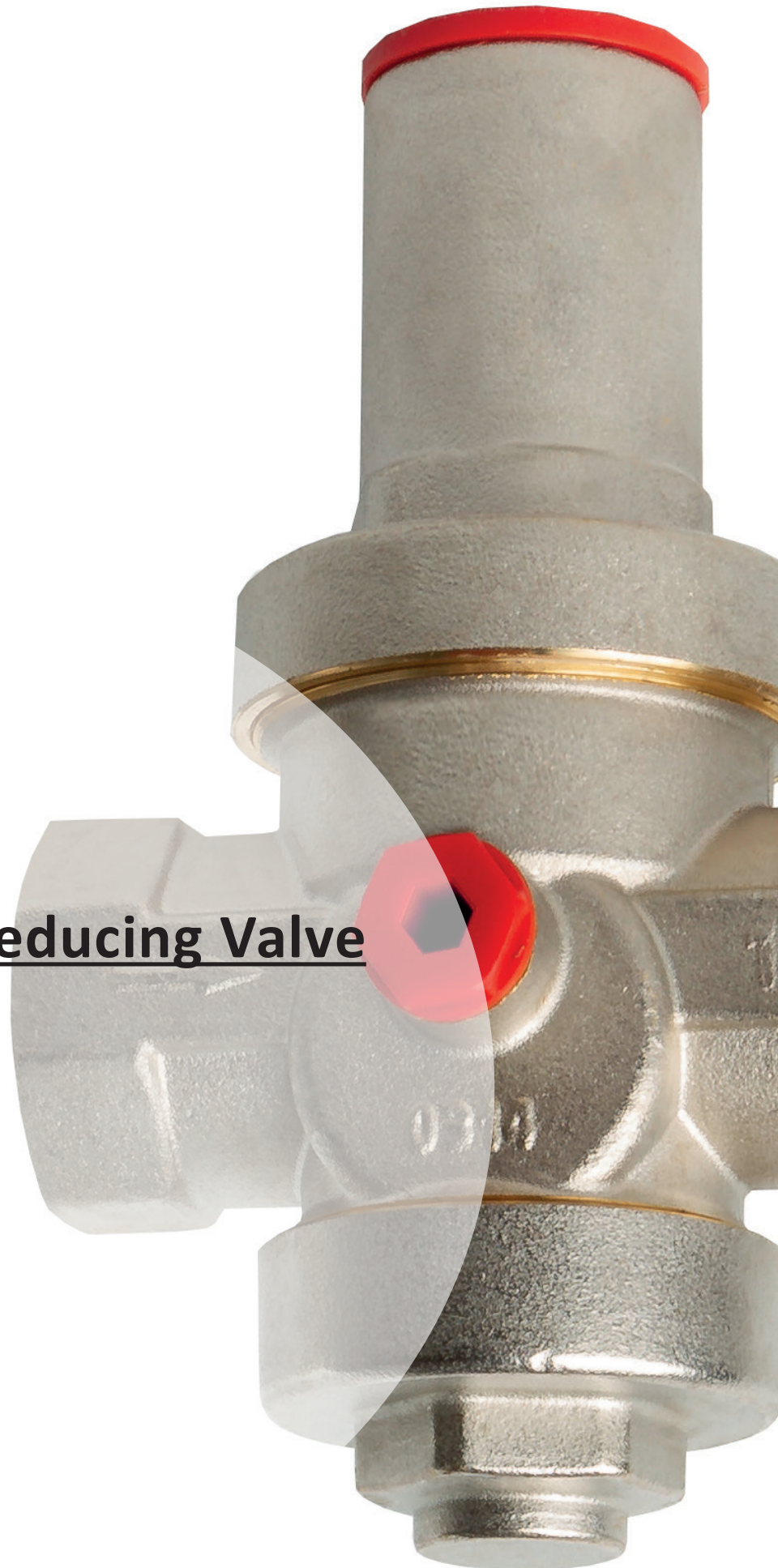
Stainless Steel – PN 25 – Wafer – EN 1092-2

Flowrate Measurement Graph



FIVC Pressure Reducing Valve

Piston Type



FIVC Pressure Reducing Valve

Brass – PN 25 – ISO 228



FPR series

Technical data

Main features and materials

- Body: Brass CW617N
- Gasket: EPDM
- Piston: Techno Polymer+ Glass fibre
- Seat: Stainless Steel
- Sound class: II - Lap [sB (A)] <30
- Standard: EN 1567

Field of applications

- Temperature range: 0 to 130 °C (no freezing)
- Max. working pressure: 25 bar
- Outlet pressure regulation: 1 to 5.5 bar
- Outlet pressure factory set: 3 bar
- Compatible fluids: Water and glycol solutions (max. 50% concentration of glycol).
Compressed air (except DN 50)

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

The piston-type FIVC Pressure Reducing Valve is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a present value.

The use of this hydraulic device is necessary in case the maximum possible pressure at any point in the water distribution system can reach or exceed the relative maximum allowable working pressure, or if connectable to apparatus and equipment that function exclusively at lower levels of pressure.

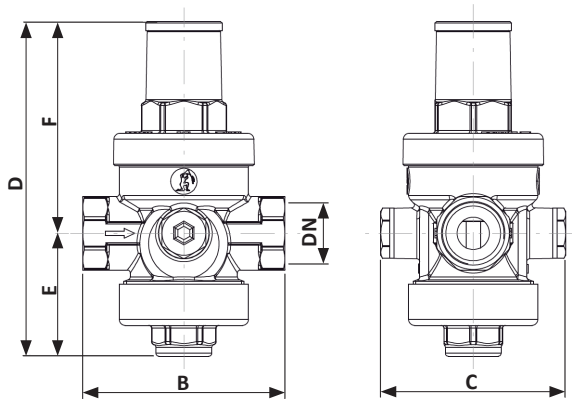
The piston-type FIVC Pressure Reducing Valve is designed for use in either internal or external water distribution systems, where the water main pressure values do not surpass 25 bar.

The thermoplastic material of the internal piston structure guarantees rigidity, strength and an enhanced regulation precision thanks to the compensated seat.

Declaration

The model complies with the European PED Directive N° 97/23/EC, dated 25/02/2000, and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	B*	C*	D*	E*	F*	Kg
FPR015B25P01	15	69	63	113.8	41.8	72	0.58
FPR020B25P01	20	82	63	113.8	41.8	72	0.65
FPR025B25P01	25	96	73	145.5	52.5	93	1.08
FPR032B25P01	32	100	73	151.5	56.5	95	2.31
FPR040B25P01	40	91	77	148	48	100	1.35
FPR050B25P01	50	97	81	150	48	102	1.54

*Dimensions are in millimeters

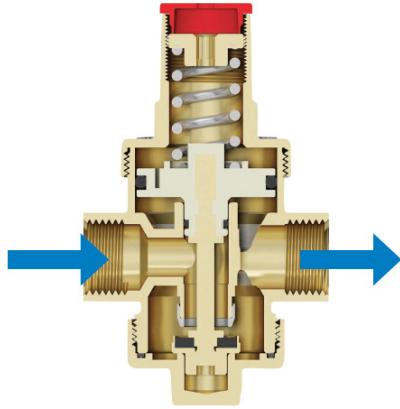
Product Specification

N°	Name	Material
1	Body	Nickel plated Brass CW617N UNI EN 12165
2	Gasket	EPDM Peroxide
3	Piston	Techno Polymer reinforced with Glass Fibre
4	Seat	Stainless Steel EN 10088 1.4305 AISI 303
5	Spring	Zinc plated Steel EN 10270-1 SM

FIVC Pressure Reducing Valve

Brass – PN 25 – ISO 228

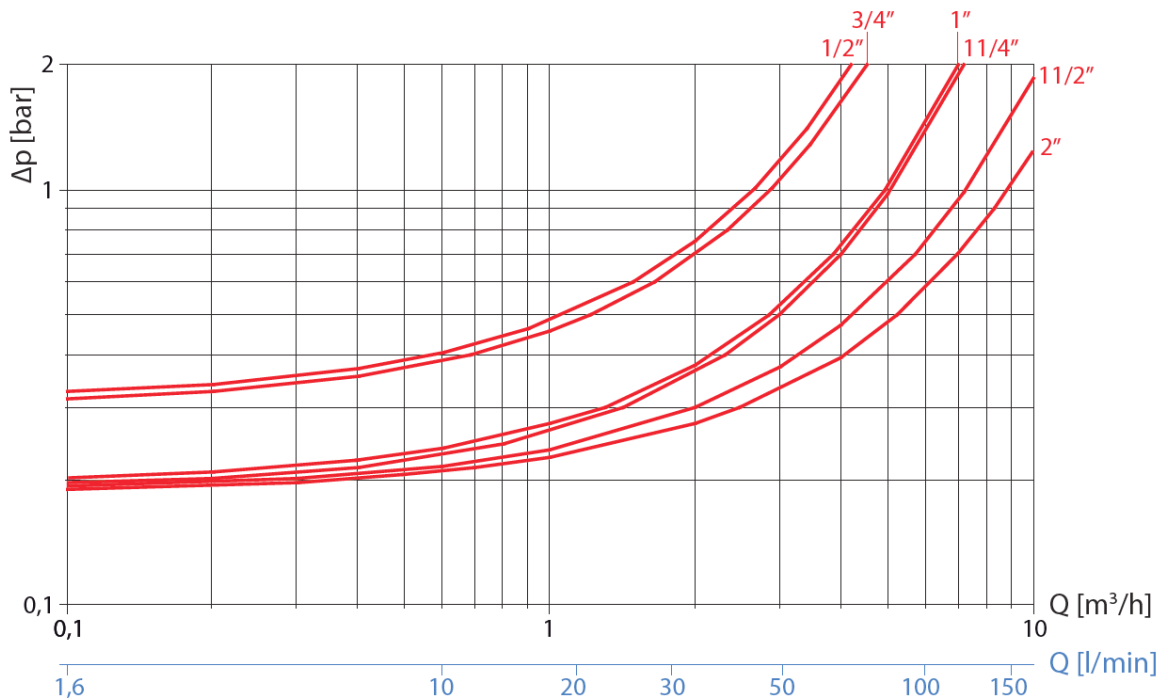
Flow Rate Values



Size (DN)	Flow Rate	
	(m ³ /h)	(l/min)
15	1.27	21.16
20	2.27	37.83
25	3.6	60
32	5.8	96.66
40	9.1	151.66
50	14	233.33

Rated water flow rate, relative to a speed of 2 m/s for each diameter acc. to the requirements of standard EN 1567.

Flow Rate Diagram





FIVC Triple Duty Valve

Angle type
Straight type

FIVC Triple Duty Valve

Ductile Iron – PN 16 – Angle – EN 1092-2



FTDVA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Grey Cast Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Carbon Steel
- USP: 3-in-1: Functions as a silent check valve, regulating valve, and shut-off valve.
Integrated positioning indicator
- Pressure test standard: BS EN 12266-1
- Dimensions: Flanges acc. to EN 1092-2

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Triple Duty Valve is designed in an angle form to close at an approximate 90 degrees for the purpose to control the pump in an open water supplying system or closed cycling system. The valve acts as a controller, non-return valve, and a shut-off valve. It can replace a variable balancing valve, butterfly valve, and a check valve, providing same efficiency.

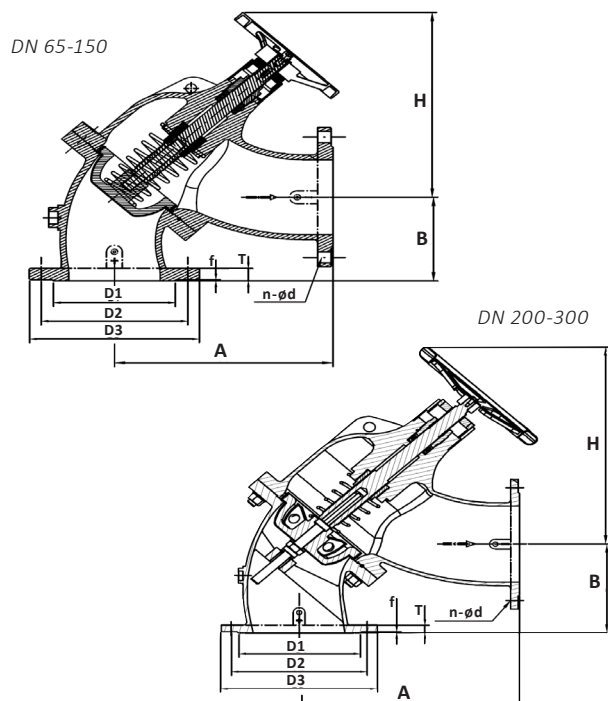
Benefits of using the FIVC Triple Duty Valve is its performance of three separate valves, ensuring economical savings, along with space savings due to its compact design.

Furthermore, the functionality of the valve prevents the water hammer phenomenon. The valve can be used for Water, Oil, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

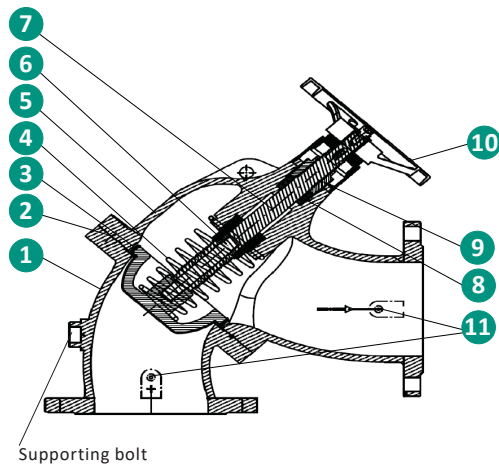
Product code	Size (DN)	D1*	D2*	D3*	n-ød**	L*	T*	f*	H* (min)	H* (max)	A*	B*	Kg
FTDVA065N16214	65	118	145	185	4-ø19	304	19	3	243	272	187	117	25
FTDVA080N16214	80	132	160	200	8-ø19	305	19	3	273	307	208	98	28
FTDVA100N16214	100	156	180	220	8-ø19	355	19	3	273	307	244	111	39
FTDVA125N16214	125	184	210	250	8-ø19	445	19	3	349	400	305	140	55
FTDVA150N16214	150	221	240	285	8-ø23	525	19	3	362	419	359	168	89
FTDVA200N16214	200	266	295	340	12-ø23	716	20	3	520	579	481	233	158
FTDVA250N16214	250	319	355	405	12-ø28	762	22	3	585	653	516	248	251
FTDVA300N16214	300	370	410	460	12-ø28	967	24.5	4	677	762	611	356	357

*Dimensions are in millimeters • **n-ød; n: number of holes - ød: diameter of hole

FIVC Triple Duty Valve

Ductile Iron – PN 16 – Angle – EN 1092-2

Product Specification



N°	Name	Material
1	Lower body	Ductile Iron EN-GJS-450-10
2	O-Ring	EPDM
3	Disc	Grey Cast Iron EN-GJL-250 + EPDM
4	Spring	Stainless Steel SS 304
5	Upper body	Ductile Iron EN-GJS-450-10
6	Disc shaft	Stainless Steel SS 410
7	Stem	Stainless Steel SS 410
8	V-type filler	EPDM
9	Packing gland	Stainless Steel SS 410
10	Handwheel	Carbon Steel
11	Plugs in NPT 1/4"	Carbon Steel

FIVC Triple Duty Valve

Ductile Iron – PN 25 – Angle – EN 1092-2



FTDVA series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Grey Cast Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Carbon Steel
- USP: 3-in-1: Functions as a silent check valve, regulating valve, and shut-off valve.
Integrated positioning indicator
- Pressure test standard: BS EN 12266-1
- Dimensions: Flanges acc. to EN 1092-2

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 25 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Triple Duty Valve is designed in an angle form to close at an approximate 90 degrees for the purpose to control the pump in an open water supplying system or closed cycling system. The valve acts as a controller, non-return valve, and a shut-off valve. It can replace a balancing valve, butterfly valve, and a check valve, providing same efficiency.

Benefits of using the FIVC Triple Duty Valve is its performance of three separate valves, ensuring economical savings, along with space savings due to its compact design.

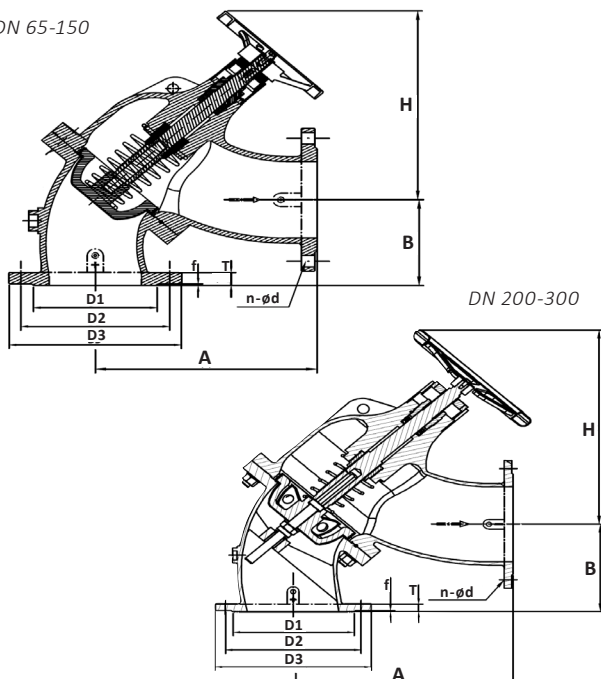
Furthermore, the functionality of the valve prevents the water hammer phenomenon. The valve can be used for Water, Oil, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014.

Dimensions

DN 65-150



Product Information

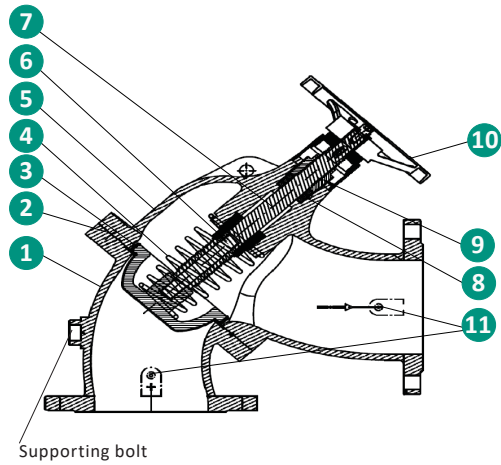
Product code	Size (DN)	D1*	D2*	D3*	n-øD**	L*	T*	f*	H* (min)	H* (max)	A*	B*
FTDVA065N25214	65	118	145	185	8-ø19	304	19	3	243	272	187	117
FTDVA080N25214	80	132	160	200	8-ø19	305	19	3	273	307	208	98
FTDVA100N25214	100	156	190	235	8-ø23	355	19	3	273	307	244	111
FTDVA125N25214	125	184	220	270	8-ø28	445	19	3	349	400	305	140
FTDVA150N25214	150	211	250	300	8-ø28	525	20	3	362	419	359	168
FTDVA200N25214	200	274	310	360	12-ø28	716	22	3	520	579	481	233
FTDVA250N25214	250	330	370	425	12-ø31	762	24.5	3	585	653	516	248
FTDVA300N25214	300	389	430	485	12-ø31	967	27.5	4	677	762	611	356

*Dimensions are in millimeters • **n-øP; n: number of holes • øP: diameter of hole

FIVC Triple Duty Valve

Ductile Iron – PN 25 – Angle – EN 1092-2

Product Specification



N°	Name	Material
1	Lower body	Ductile Iron EN-GJS-450-10
2	O-Ring	EPDM
3	Disc	Grey Cast Iron EN-GJL-250 + EPDM
4	Spring	Stainless Steel SS 304
5	Upper body	Ductile Iron EN-GJS-450-10
6	Disc shaft	Stainless Steel SS 410
7	Stem	Stainless Steel SS 410
8	V-type filler	EPDM
9	Packing gland	Stainless Steel SS 410
10	Handwheel	Carbon Steel
11	Plugs in NPT 1/4"	Carbon Steel

FIVC Triple Duty Valve

Grey Cast Iron – PN 16 – Straight – EN 1092-2



FTDVS series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Disc: Ductile Iron+EPDM
- Stem: Stainless Steel ASTM 410
- Handwheel: DN 50-300: Carbon Steel
DN 350-500: Grey Cast Iron
- USP: 3-in-1: Functions as a silent check valve, regulating valve, and shut-off valve.
Integrated positioning indicator
- Pressure test standard: BS EN 12266-1
- Dimensions: Flanges acc. to EN 1092-2

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Triple Duty Valve is designed in a straight form to control the pump in an open water supplying system or closed cycling system. The valve acts as a controller, non-return valve, and a shut-off valve. It can replace a balancing valve, butterfly valve, and a check valve, providing same efficiency. In order to activate aforementioned functions, the valve has to be installed at the outlet of a pump or behind the rubber expansion joint.

Benefits of using the FIVC Triple Duty Valve is its performance of three separate valves, ensuring economical

savings, along with space savings due to its compact design.

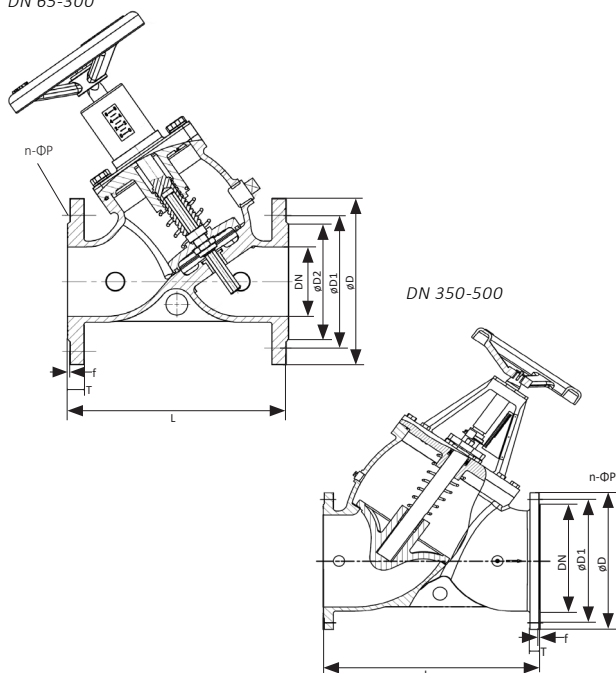
Furthermore, the functionality of the valve prevents the water hammer phenomenon. The valve can be used for Water, Oil, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions

DN 65-300



Product Information

Product code	Size (DN)	L*	øD*	øD1*	øD2*	T*	f*	n-øP**	Plug NPT	Kg
FTDVS050C16214	50	213	165	125	99	20	3	4-ø19	1/2"	12.5
FTDVS065C16214	65	250	185	145	118	20	3	4-ø19	1/2"	16.8
FTDVS080C16214	80	254	200	160	132	22	3	8-ø19	1/2"	20.2
FTDVS100C16214	100	368	220	180	156	24	3	8-ø19	1"	41.6
FTDVS125C16214	125	407	250	210	184	26	3	8-ø19	1"	48.6
FTDVS150C16214	150	457	285	240	211	26	3	8-ø23	1"	72.4
FTDVS200C16214	200	546	340	295	266	30	3	12-ø23	1"	125.7
FTDVS250C16214	250	648	405	355	319	32	3	12-ø28	1"	192.1
FTDVS300C16214	300	762	460	410	370	32	4	12-ø28	1"	250.8
FTDVS350C16214	350	772	520	470	429	36	4	16-ø28	1"	-
FTDVS400C16214	400	858	580	525	480	38	4	16-ø31	1"	-
FTDVS450C16214	450	938	640	585	548	40	4	20-ø31	1"	-
FTDVS500C16214	500	1050	715	650	609	42	4	20-ø34	1"	-

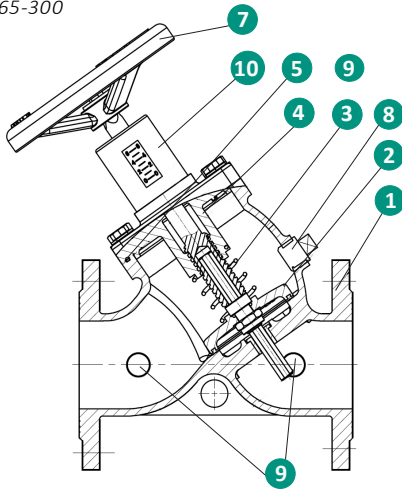
*Dimensions are in millimeters • **n-øP; n: number of holes - øP: diameter of hole (mm)

FIVC Triple Duty Valve

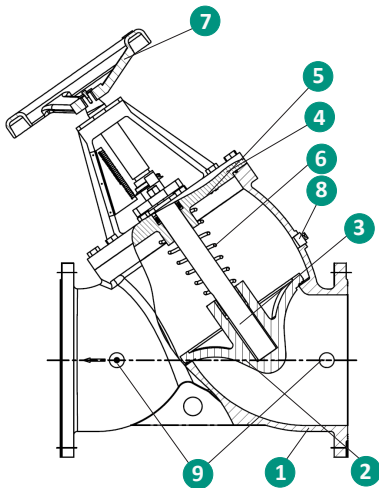
Grey Cast Iron – PN 16 – Straight – EN 1092-2

Dimensions

DN 65-300



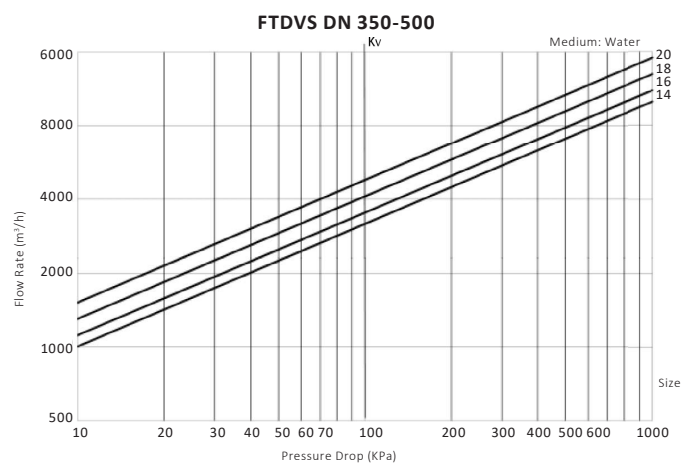
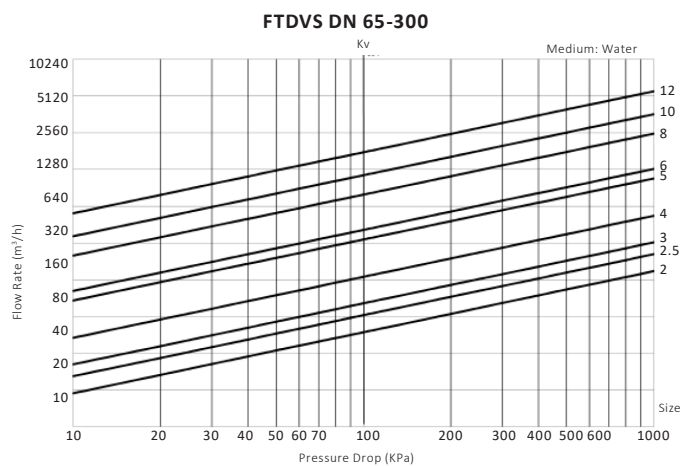
DN 350-500



Product Specification

N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250
2	Disc	Ductile Iron EN-GJS-450-10 + EPDM
3	Shaft	Stainless Steel ASTM 410
4	Cover	Grey Cast Iron EN-GJL-250
5	Sealing ring	EPDM
6	Spring	Stainless Steel SS 304
7	Handwheel	DN 50-300: Carbon Steel WCB DN 350-500: Grey Cast Iron EN-GJL-250
8	Plug for drainage	Carbon Steel
9	Plugs - NPT 1/4" (2 pcs.)	Carbon Steel
10	Calibration device (Only for DN 50-300)	Plastic

Flowrate versus Pressure Drop



FIVC Triple Duty Valve

Ductile Iron – PN 25 – Straight – EN 1092-2



FTDVS series

Technical data

Main features and materials

- Body: Ductile Iron
- Bonnet: Ductile Iron
- Disc: Ductile Iron+EPDM
- Stem: Stainless Steel
- Handwheel: Carbon Steel
- USP: Three-in-one: Functions as a silent check valve, variable regulating valve, and a shut-off valve.
Integrated positioning indicator
- Pressure test standard: BS EN 12266-1
- Dimensions: Flanges acc. to EN 1092-2

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 25 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Triple Duty Valve is designed in a straight form to control the pump in an open water supplying system or closed cycling system. The valve acts as a controller, non-return valve, and a shut-off valve. It can replace a balancing valve, butterfly valve, and a check valve, providing same efficiency.

In order to activate aforementioned functions, the valve has to be installed at the outlet of a pump or behind the rubber expansion joint.

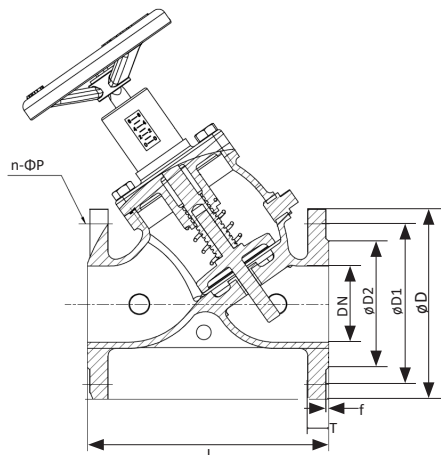
Benefits of using the FIVC Triple Duty Valve is its performance of three separate valves, ensuring economical savings, along with space savings due to its compact design.

Furthermore, the functionality of the valve prevents the water hammer phenomenon. The valve can be used for Water, Oil, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

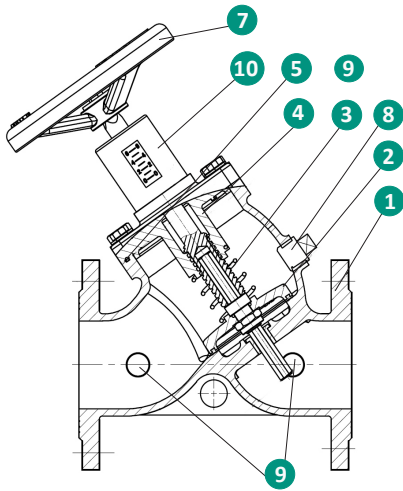
Product code	Size (DN)	L*	øD*	øD1*	øD2*	T*	f*	n-øP**	Plug NPT	Kg
FTDVS050N25214	50	213	165	125	99	19	3	4-ø19	1/2"	15
FTDVS065N25214	65	250	185	145	118	19	3	8-ø19	1/2"	22
FTDVS080N25214	80	254	200	160	132	19	3	8-ø19	1/2"	28.5
FTDVS100N25214	100	368	235	190	156	19	3	8-ø23	1"	47
FTDVS125N25214	125	407	270	220	184	19	3	8-ø28	1"	74
FTDVS150N25214	150	457	300	250	211	20	3	8-ø28	1"	92
FTDVS200N25214	200	546	360	310	274	22	3	12-ø28	1"	161
FTDVS250N25214	250	648	425	370	330	24.5	3	12-ø31	1"	256
FTDVS300N25214	300	762	485	430	389	27.5	4	16-ø31	1"	362

*Dimensions are in millimeters • **n-øP; n: number of holes - øP: diameter of hole

FIVC Triple Duty Valve

Ductile Iron – PN 25 – Straight – EN 1092-2

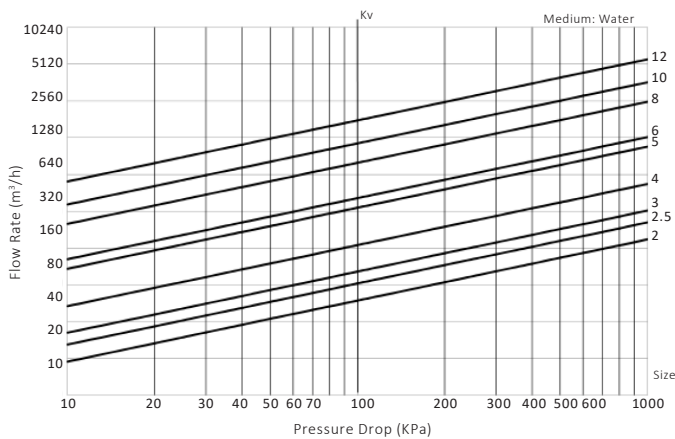
Dimensions



Product Specification

N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250
2	Disc	Ductile Iron EN-GJS-450-10 + EPDM
3	Shaft	Stainless Steel ASTM 410
4	Cover	Grey Cast Iron EN-GJL-250
5	Sealing ring	EPDM
6	Spring	Stainless Steel SS 304
7	Handwheel	DN 50-300: Carbon Steel WCB DN 350-500: Grey Cast Iron EN-GJL-250
8	Plug for drainage	Carbon Steel
9	Plugs - NPT 1/4" (2 pcs.)	Carbon Steel
10	Calibration device	Plastic

Flowrate versus Pressure Drop





FIVC Suction Diffuser

FIVC Suction Diffuser

Grey Cast Iron – PN 16 – EN 1092-2



FSD series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Cover: Grey Cast Iron
- Mesh screen: Stainless Steel
- Sealing part: Rubber EPDM
- USP: 3-in-1: Functions as an elbow, in-line strainer, and a rectifying valve
Integrated positioning indicator
- Nominal diameter: 50x40-500x500
- Pressure test standard: BS EN 12266-1
- Dimensions: Flanges acc. to EN 1092-2

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Suction Diffuser is designed to reduce velocity and increase the static pressure in HVAC system pumping stations providing multiple of functionalities. The valve acts and can replace an elbow, in-line strainer, variable diameter, and a rectifying valve.

Benefits using suction diffusers include preventing the water hammer phenomenon.

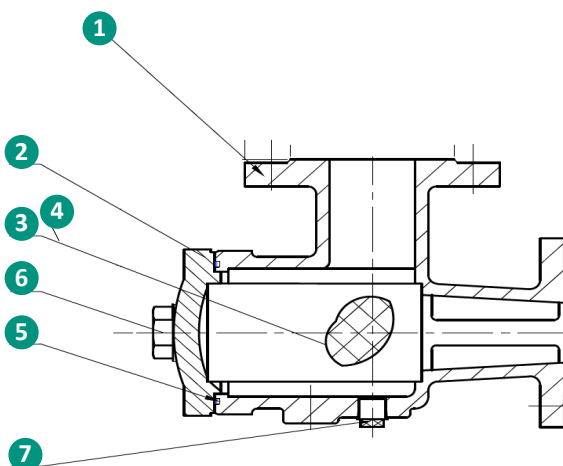
Besides, the valve eliminates cavitation and impurities from damaging the water pump impeller, and prolong the service life of pump. The valve can be used for Water, Oil, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Product Specification

DN 50x40 - 100x100



N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Bonnet	Grey Cast Iron EN-GJL-250 JL 1040
3	Screen	Stainless Steel SS 304
4	Woven mesh	Stainless Steel SS 304
5	O-Rings	EPDM
6	Outside the hexagon bolt	Carbon Steel WCB
7	Plug/drain	Carbon Steel WCB

Screen Information

Mesh type	Mesh*	T*	øF*	Opening area
	Per cm ²	mm		
Perforated	4.96	1 (DN 50-300)	3.2	39.9
		1.2 (DN 350-600)		

* MG: Market Grade • Mesh: Number of holes • T: Thickness • øF: Inscribed hole diameter • x and y: Opening diameter

FIVC Suction Diffuser

Grey Cast Iron – PN 16 – EN 1092-2

Product Information

Product code	Size (DN)	Dimensions					Connecting Dimension											Drain*	Kg	
		L1*	L2*	L3*	L4	L5	ØD1*	ØD2*	n1-Ød1*	ØD3*	ØD4*	n2-d2*	C1*	C2*	Ød1*	f1*	Ød2*			f2*
FSD50X40C16212	50x40	114.3	114.3	169	151	253	125	165	4-Ø19	110	150	4-Ø19	20	18	99	3	84	3		-
FSD50X50C16212	50x50	114.3	114.3	169	151	253	125	165	4-Ø19	125	165	4-Ø19	20	20	99	3	99	3	20	13
FSD65X50C16212	65x50	127	127	191	167	270	145	185	4-Ø19	125	165	4-Ø19	20	20	118	3	99	3	20	15.5
FSD65X65C16212	65x65	127	127	191	167	270	145	185	4-Ø19	145	185	4-Ø19	20	20	118	3	118	3	20	16.3
FSD80X50C16212	80x50	139.7	114.3	195	153.6	252	160	200	8-Ø19	125	165	4-Ø19	22	20	132	3	99	3	20	15.5
FSD80X65C16212	80x65	139.7	139.7	216	179	284	160	200	8-Ø19	145	185	4-Ø19	22	20	132	3	118	3	20	37.5
FSD80X80C16212	80x80	139.7	139.7	216	179	284	160	200	8-Ø19	160	200	8-Ø19	22	22	132	3	132	3	20	49.5
FSD100X80C16212	100x80	165	165	263	223	334	180	220	8-Ø19	160	200	8-Ø19	24	22	156	3	132	3	25	50.6
FSD100X100C16212	100x100	165	165	260	210	328	180	220	8-Ø19	180	220	8-Ø19	24	24	156	3	156	3	25	56.3
FSD125X100C16212	125x100	190.5	190.5	332	254	394	210	250	8-Ø19	180	220	8-Ø19	26	24	184	3	156	3	25	62.6
FSD125X125C16212	125x125	190.5	190.5	332	254	394	210	250	8-Ø19	210	250	8-Ø19	26	26	184	3	184	3	25	90
FSD150X100C16212	150x100	203	165	329	223	345	240	285	8-Ø23	180	230	8-Ø19	26	24	211	3	156	3	25	130
FSD150X125C16212	150x125	203	203	367	272	423	240	285	8-Ø23	210	250	8-Ø19	26	26	211	3	184	3	25	150
FSD150X150C16212	150x150	203	203	367	272	423	240	285	8-Ø23	240	285	8-Ø23	26	26	211	3	211	3	25	230
FSD200X125C16212	200x125	192	228.6	333	329	487	295	340	12-Ø23	210	250	8-Ø19	30	26					25	211.6
FSD200X150C16212	200x150	228.6	203.2	393	297	455	295	340	12-Ø23	240	285	8-Ø23	30	26	266	3	211	3	25	344.6
FSD200X200C16212	200x200	228.6	228.6	438	295	542	295	340	12-Ø23	295	340	12-Ø23	30	30	266	3	266	3	32	400.7
FSD250X200C16212	250x200	279.4	228.6	488	295	539	355	405	12-Ø28	295	340	12-Ø23	32	30	319	3	266	3	32	540.9
FSD250X250C16212	250x250	279.4	279.4	527	360	678	355	405	12-Ø28	355	405	12-Ø23	32	32	319	3	319	3	32	-
FSD300X200C16212	300x200	280	280	488	346	551	410	460	12-Ø28	295	340	12-Ø23	32	30	370	4	266	3	32	-
FSD300X250C16212	300x250	304.8	279.4	553	360	678	410	460	12-Ø28	355	405	12-Ø23	32	32	370	4	319	3	32	-
FSD300X300C16212	300x300	304.8	304.8	553	390	678	410	460	12-Ø28	410	460	12-Ø23	32	32	370	4	370	4	32	-
FSD350X250C16212	350x250	318	328	566	440	678	470	520	16-Ø28	355	405	12-Ø23	36	32	429	4	319	3	32	-
FSD350X300C16212	350x300	318	328	566	440	678	470	520	16-Ø28	410	460	12-Ø23	36	32	429	4	370	4	32	-
FSD350X350C16212	350x350	318	328	566	440	678	470	520	16-Ø28	470	520	16-Ø28	36	36	429	4	429	4	32	-
FSD400X300C16212	400x300	334	364	603	474	745	525	580	16-Ø31	410	460	12-Ø28	38	32	480	4	370	4	32	-
FSD400X350C16212	400x350	334	364	603	474	745	525	580	16-Ø31	470	520	16-Ø28	38	36	480	4	429	4	32	-
FSD400X400C16212	400x400	334	364	603	474	745	525	580	16-Ø31	525	580	16-Ø31	38	38	480	4	480	4	32	-
FSD450X350C16212	450x350	370	389	669	478	785	585	640	20-Ø31	470	520	16-Ø28	40	36	548	4	429	4	32	-
FSD450X400C16212	450x400	370	389	669	478	785	585	640	20-Ø31	525	580	16-Ø31	40	38	548	4	480	4	32	-
FSD450X450C16212	450x450	370	389	669	478	785	585	640	20-Ø31	585	640	20-Ø31	40	40	548	4	548	4	32	-
FSD500X400C16212	500x400	406	428	730	517	849	650	715	20-Ø34	525	580	16-Ø31	42	38	609	4	480	4	32	-
FSD500X450C16212	500x450	406	428	730	517	849	650	715	20-Ø34	585	640	20-Ø31	42	40	609	4	548	4	32	-
FSD500X500C16212	500x500	406	428	730	517	849	650	715	20-Ø34	650	715	20-Ø34	42	42	609	4	609	4	32	-

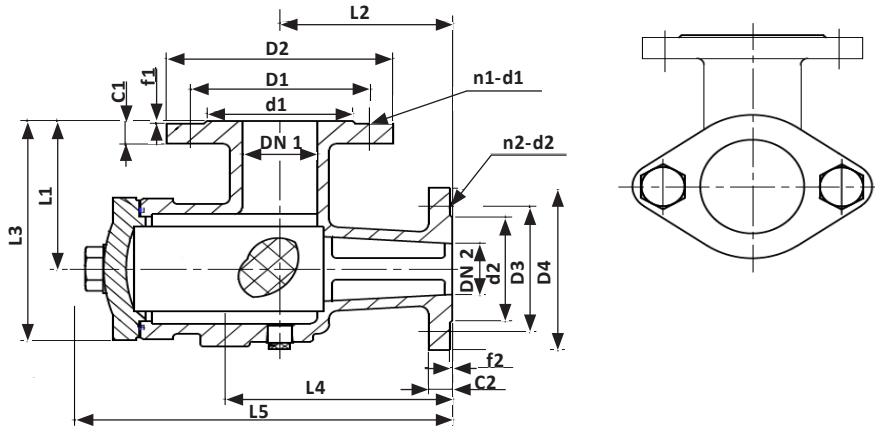
*Dimensions are in millimeters

FIVC Suction Diffuser

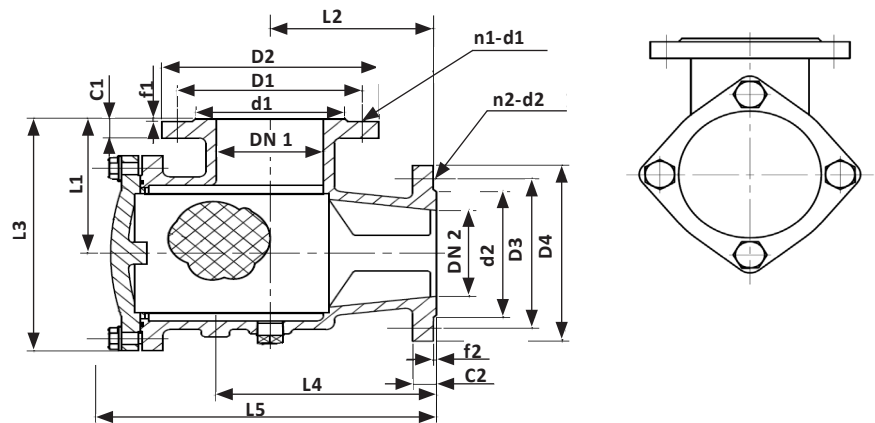
Grey Cast Iron – PN 16 – EN 1092-2

Dimensions

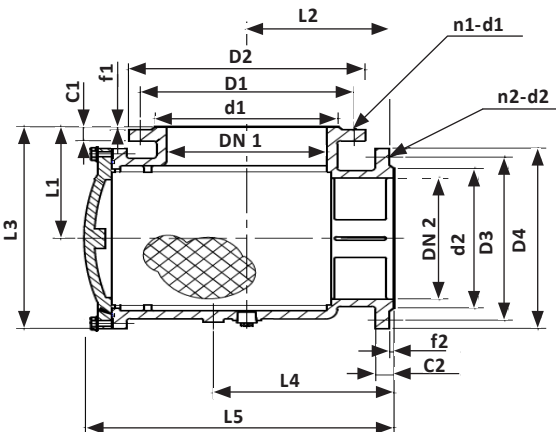
Size 50x40 - 100x100



Size 125x100 - 200x125



Size 150x125 - 500x500



FIVC Suction Diffuser

Ductile Iron – PN 25 – EN 1092-2



FSD series

Technical data

Main features and materials

- Body: Ductile Iron
- Cover: Ductile Iron
- Mesh screen: Stainless Steel
- Woven mesh: Stainless Steel
- Sealing part: EPDM
- USP: 3-in-1: Functions as an elbow, in-line strainer, and a rectifying valve
Integrated positioning indicator
- Nominal diameter: 50x40-500x500
- Pressure Test Standard: BS EN 12266-1
- Dimension: Flange acc. to EN 1092-2

Field of applications

- Temperature range: -20 to 120 °C
- Max. working pressure: 25 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Suction Diffuser is designed to reduce velocity and increase the static pressure in HVAC system pumping stations providing multiple of functionalities. The valve acts and can replace an elbow, in-line strainer, variable diameter, and a rectifying valve.

Benefits using suction diffusers include preventing the water hammer phenomenon.

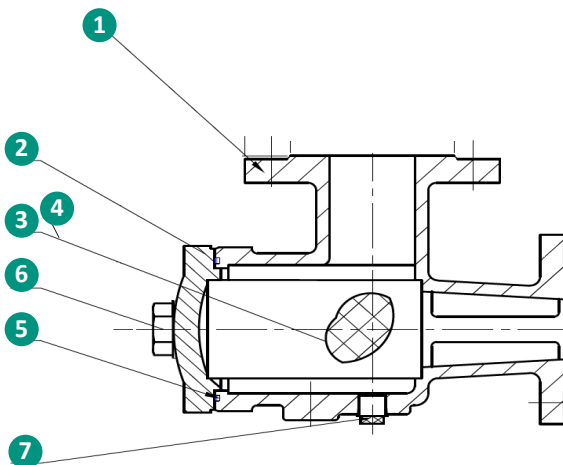
Besides, the valve eliminates cavitation and impurities from damaging the water pump impeller, and prolong the service life of pump. The valve can be used for Water, Oil, and Gas respectively.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Product Specification

DN 50x40 - 100x100



N°	Name	Material
1	Body	Ductile Iron EN GJS-450-10 JS 1040
2	Cover	Ductile Iron EN GJS-450-10 JS 1040
3	Mesh screen	Stainless Steel SS 304
4	Woven mesh	Stainless Steel SS 304
5	Sealing part	EPDM
6	Outside the hexagon bolt	Carbon Steel WCB
7	Plug/drain	Carbon Steel WCB

Screen Information

ST*	Mesh*	T*	øF*	Opening area
	Per cm ²	mm		
Perforated	4.96	1 (DN 50-300)	3.2	39.9
		1.2 (DN 350-600)		

*ST: Screen type • Mesh: Number of holes • T: Thickness • øF: Inscribed hole diameter •

FIVC Suction Diffuser

Ductile Iron – PN 25 – EN 1092-2

Product Information

Product code	Size (DN)	Dimensions			Connecting Dimensions													Drain*	
		L1*	L2*	L4*	d1*	D1*	D2*	n1-Ød1*	C1*	C2*	f1*	f2*	d2*	D3*	D4*	n2-Ød2*	NPT		
FSD50x40N25212	50x40	113.3	115.3	152	99	125	165	4-Ø19	19	19	3	3	84	110	150	4-Ø19	-		
FSD50x50N25212	50x50	113.3	113.3	150	99	125	165	4-Ø19	19	19	3	3	99	125	165	4-Ø19	20		
FSD65x50N25212	65x50	127	126	166	118	145	185	8-Ø19	19	19	3	3	99	125	165	4-Ø19	20		
FSD65x65N25212	65x65	127	126	166	118	145	185	8-Ø19	19	19	3	3	118	145	185	8-Ø19	20		
FSD80x50N25212	80x50	136.7	113.3	152.6	132	160	200	8-Ø19	19	19	3	3	99	125	165	4-Ø19	20		
FSD80x65N25212	80x65	136.7	138.7	178	132	160	200	8-Ø19	19	19	3	3	118	145	185	8-Ø19	20		
FSD80x80N25212	80x80	136.7	136.7	176	132	160	200	8-Ø19	19	19	3	3	132	160	200	8-Ø19	20		
FSD100x80N25212	100x80	160	162	220	156	190	235	8-Ø23	19	19	3	3	132	160	200	8-Ø19	25		
FSD100x100N25212	100x100	160	160	205	156	190	235	8-Ø23	19	19	3	3	156	190	235	8-Ø23	25		
FSD125x100N25212	125x100	183.5	185.5	249	184	220	270	8-Ø28	19	19	3	3	156	190	235	8-Ø23	25		
FSD125x125N25212	125x125	183.5	183.5	247	184	220	270	8-Ø28	19	19	3	3	184	220	270	8-Ø28	25		
FSD150x100N25212	150x100	197	160	218	211	250	300	8-Ø28	20	19	3	3	156	190	235	8-Ø23	25		
FSD150x125N25212	150x125	197	196	265	211	250	300	8-Ø28	20	19	3	3	184	220	270	8-Ø28	25		
FSD150x150N25212	150x150	197	197	266	211	250	300	8-Ø28	20	20	3	3	211	250	300	8-Ø28	25		
FSD200x125N25212	200x125	184	221.6	322	274	310	360	12-Ø28	22	19	3	3	184	220	270	8-Ø28	25		
FSD200x150N25212	200x150	220.6	197.2	291	274	310	360	12-Ø28	22	20	3	3	211	250	300	8-Ø28	25		
FSD200x200N25212	200x200	220.6	220.6	287	274	310	360	12-Ø28	22	22	3	3	274	310	360	12-Ø28	32		
FSD250x200N25212	250x200	271.9	220.6	287	330	370	425	12-Ø31	24.5	22	3	3	274	310	360	12-Ø28	32		
FSD250x250N25212	250x250	271.9	271.9	352.5	330	370	425	12-Ø31	24.5	24.5	3	3	330	370	425	12-Ø31	32		
FSD300x200N25212	300x200	275.5	272	338	389	430	485	16-Ø31	27.5	22	4	3	274	310	360	12-Ø28	32		
FSD300x250N25212	300x250	300.3	271.9	352.5	389	430	485	16-Ø31	27.5	24.5	4	3	330	370	425	12-Ø31	32		
FSD300x300N25212	300x300	300.3	300.3	385.5	389	430	485	16-Ø31	27.5	27.5	4	4	389	430	485	16-Ø31	32		
FSD350x250N25212	350x250	312	320.5	432.5	448	490	555	16-Ø34	30	24.5	4	3	330	370	425	12-Ø31	32		
FSD350x300N25212	350x300	312	323.5	435.5	448	490	555	16-Ø34	30	27.5	4	4	389	430	485	16-Ø31	32		
FSD350x350N25212	350x350	312	322	434	448	490	555	16-Ø34	30	30	4	4	448	490	555	16-Ø34	32		
FSD400x300N25212	400x300	328	359.5	469.5	503	550	620	16-Ø37	32	27.5	4	4	389	430	485	16-Ø31	32		
FSD400x350N25212	400x350	328	358	468	503	550	620	16-Ø37	32	30	4	4	448	490	555	16-Ø34	32		
FSD400x400N25212	400x400	328	358	468	503	550	620	16-Ø37	32	32	4	4	503	550	620	16-Ø37	32		
FSD450x350N25212	450x350	364.5	383	472	548	600	670	20-Ø37	34.5	30	4	4	448	490	555	16-Ø34	32		
FSD450x400N25212	450x400	364.5	383	472	548	600	670	20-Ø37	34.5	32	4	4	503	550	620	16-Ø37	32		
FSD450x450N25212	450x450	364.5	383.5	472.5	548	600	670	20-Ø37	34.5	34.5	4	4	548	600	670	20-Ø37	32		
FSD500x400N25212	500x400	400.5	422	511	609	660	730	20-Ø37	36.5	32	4	4	503	550	620	16-Ø37	32		
FSD500x450N25212	500x450	400.5	422.5	511.5	609	660	730	20-Ø37	36.5	34.5	4	4	548	600	670	20-Ø37	32		
FSD500x500N25212	500x500	400.5	422.5	511.5	609	660	730	20-Ø37	36.5	36.5	4	4	609	660	730	20-Ø37	32		

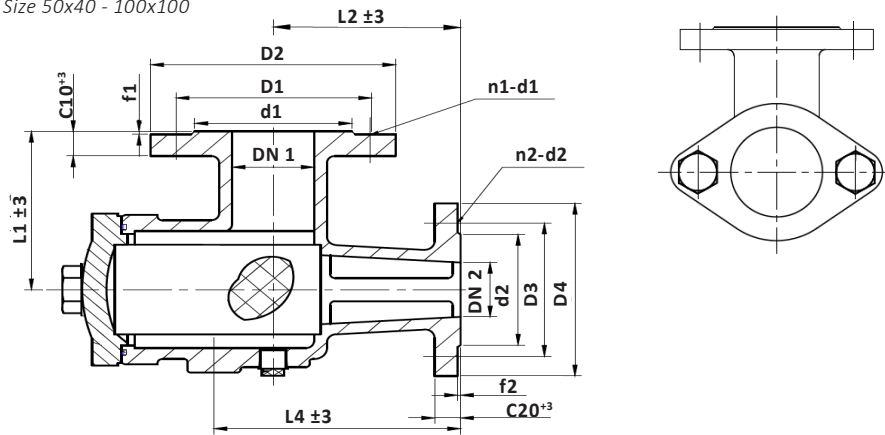
*Dimensions are in millimeters

FIVC Suction Diffuser

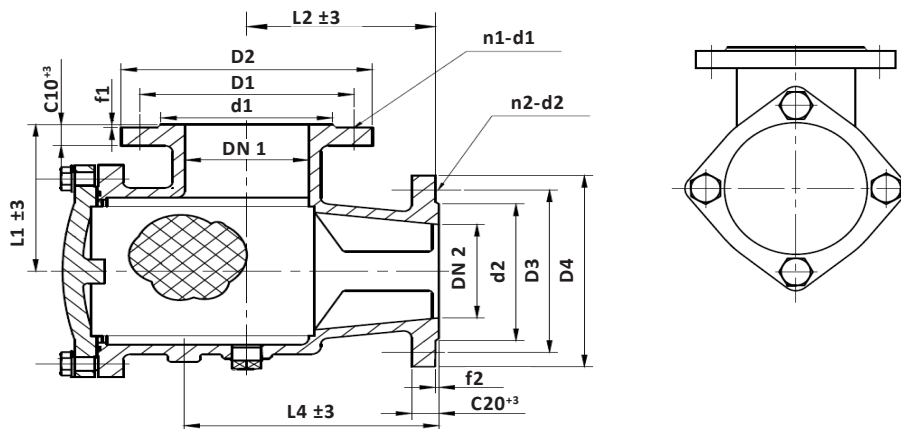
Ductile Iron – PN 25 – EN 1092-2

Dimensions

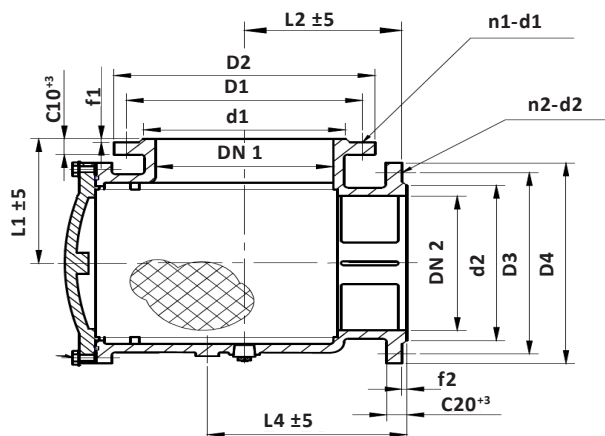
Size 50x40 - 100x100



Size 125x100 - 200x125



Size 150x125 - 500x500



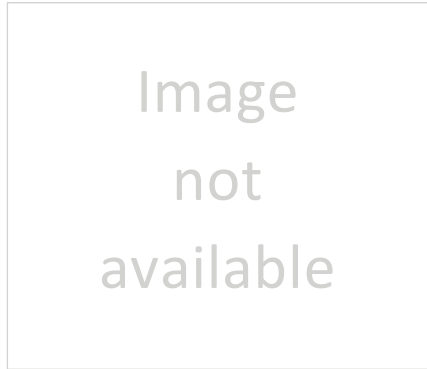
FIVC Wafer Butterfly Valve

Pin assembly
Pinless assembly
Vulcanized seat
Replaceable seat
Hand lever
Gearbox
Actuator



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Replaceable – w/Pin – WRAS – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
WRAS approval
- Standard: BS EN 593
- Dimensions: BS EN 1092-2
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 410
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 85 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

WAF series

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

The valve can be used for drinking water.

Declaration

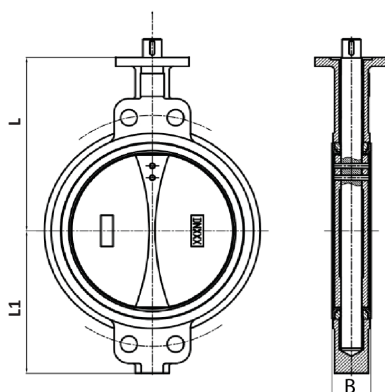
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Alternative Product Versions

Disc	Standard	Seat	Operation
<ul style="list-style-type: none"> • Stainless Steel 	<ul style="list-style-type: none"> • BS 5155 • ISO 5752 • MSS SP-67 • API 609 	<ul style="list-style-type: none"> • Vulcanized 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 10 • PN 25 	<ul style="list-style-type: none"> • DN 50+ 	

Dimensions



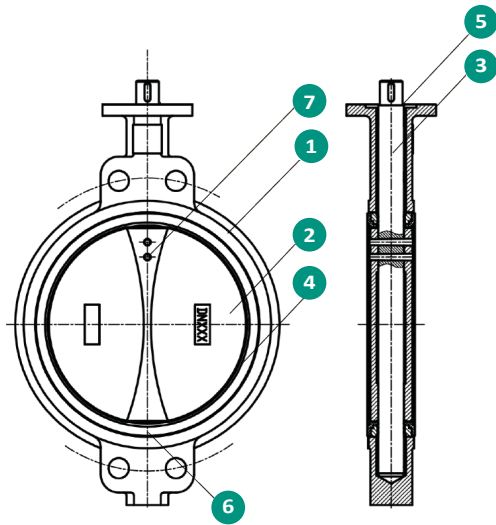
Product code	Size (DN)	L*	L1*	B*
WAFN30065MNEPR1632	65	175	86	44.5
WAFN30080MNEPR1632	80	181	94	44.5
WAFN30100MNEPR1632	100	200	112.4	51
WAFN30125MNEPR1632	125	213	130	54.5
WAFN30150MNEPR1632	150	226	149.8	54.5
WAFN30200MNEPR1632	200	260	190	59.6
WAFN30250MNEPR1632	250	292	225	67
WAFN30300MNEPR1632	300	337	255	75.5
WAFN30350MNEPR1632	350	368	302	75.5
WAFN30400MNEPR1632	400	400	354	102
WAFN30450MNEPR1632	450	422	385	114
WAFN30500MNEPR1632	500	480	438	130
WAFN30600MNEPR1632	600	562	464	151

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Replaceable – w/Pin – WRAS – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Ductile Iron
3	Shaft	Stainless Steel A276 SS 410
4	Seat	EPDM
5	O-Ring	EPDM
6	Bushing	Bronze B62 C83600
7	Pin	Stainless Steel BS970 316S11

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – Pinless – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch handlever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the construction ensures to good corrosion resistance.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

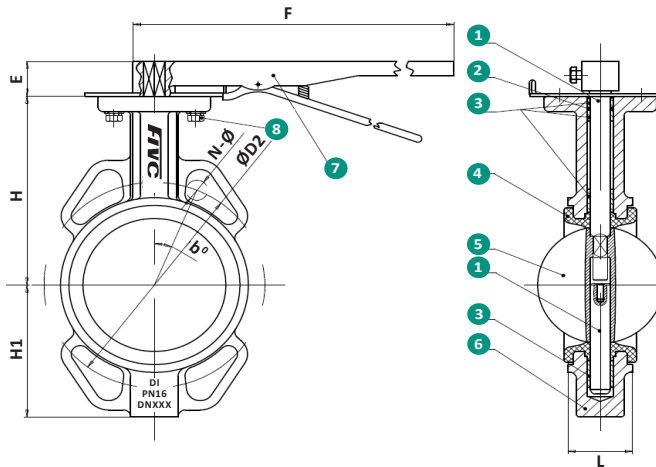
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
WAFN30040MNENV1620	40	105	73	32	32	110	4-Ø19	45	35	223	3.7	15.1	86
WAFN30050MNENV1620	50	130	85	32	32	125	4-Ø19	45	35	223	3.9	16	86
WAFN30065MNENV1620	65	140	94	32	46	145	4-Ø19	45	35	223	4.3	17.2	86
WAFN30080MNENV1620	80	145	105	32	46	160	4-Ø19	22.5	35	223	5	23.1	86
WAFN30100MNENV1620	100	160	126	32	52	180	4-Ø19	22.5	35	223	7	39.8	169
WAFN30125MNENV1620	125	170	140	32	56	210	4-Ø19	22.5	35	223	9	61.9	291
WAFN30150MNENV1620	150	190	151	32	56	240	4-Ø23	22.5	35	223	11	102	291
WAFN30200MNENV1620	200	220	183	35	60	295	4-Ø23	22.5	38	358	11	102	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – Pinless – EN 1092-2

Product Specification



N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Disc	Ductile Iron
6	Body	Ductile Iron GGG 40
7	Handle	Malleable Iron
8	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – Pinless – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the construction ensures to good corrosion resistance.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch handlever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2*	N-M	b° or a°	E* or C*	F*	Øv* or V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
WAFN30065MDVENV1620	65	140	94	-	46	145	4-Ø19	45	65	154	135	9	17.2	86	200	24:1	6
WAFN30080MDVENV1620	80	145	105	-	46	160	4-Ø19	22.5	65	154	135	10	23.1	86	200	24:1	6
WAFN30100MDVENV1620	100	160	126	-	52	180	4-Ø19	22.5	65	154	135	11.5	39.8	169	200	24:1	6
WAFN30125MDVENV1620	125	170	140	-	56	210	4-Ø19	22.5	65	154	135	14	61.9	291	200	24:1	6
WAFN30150MDVENV1620	150	190	151	-	56	240	4-Ø23	22.5	65	154	135	15.5	102	291	200	24:1	6
WAFN30200MDVENV1620	200	220	183	-	60	295	4-Ø23	22.5	77	225	285	28	192	465	500	32:1	8
WAFN30250MDVENV1620	250	260	217	-	68	355	4-Ø28	15	77	225	285	35	323	993	500	32:1	8
WAFN30300MDVENV1620	300	290	252	-	78	410	4-Ø28	15	80	215	285	50	490	1360	1200	50:1	12.5
WAFN30350MDVENV1620	350	320	285	-	78	470	4-Ø28	11.25	80	215	285	60	625	1360	1200	50:1	12.5
WAFN30400MDVENV1620	400	356	315	271	102	525	4-Ø31	11.25	121	256	285	130	846	2356	2.5x10 ³	560:1	140
WAFN30450MDVENV1620	450	387	384	271	114	585	4-Ø31	9	121	256	285	150	1131	3394	2.5x10 ³	560:1	140
WAFN30500MDVENV1620	500	424	390	271	127	650	4-Ø34	9	121	256	285	200	1431	4120	2.5x10 ³	560:1	140
WAFN30600MDVENV1620	600	524	455	330	154	770	4-Ø37	9	130	285	385	270	2301	6781	4x10 ³	506:1	140

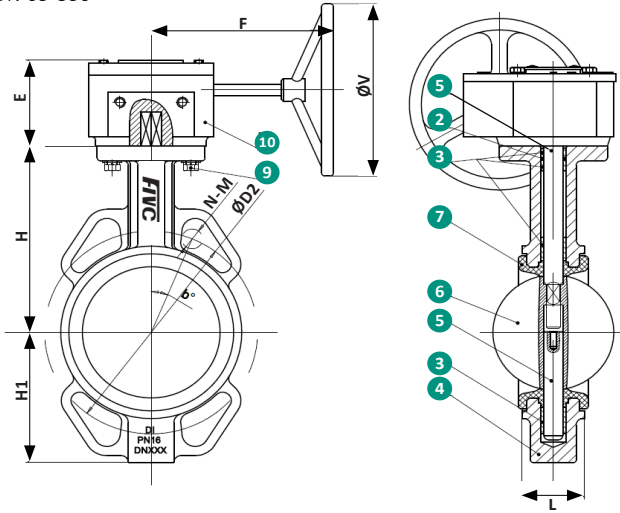
*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

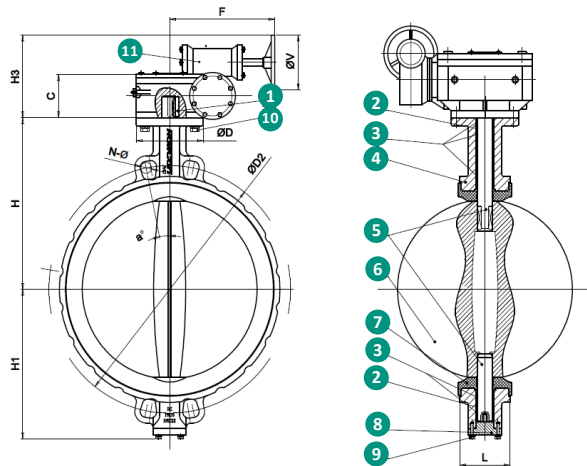
Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – Pinless – EN 1092-2

Dimensions

DN 65-350



DN 400-600



Product Specification

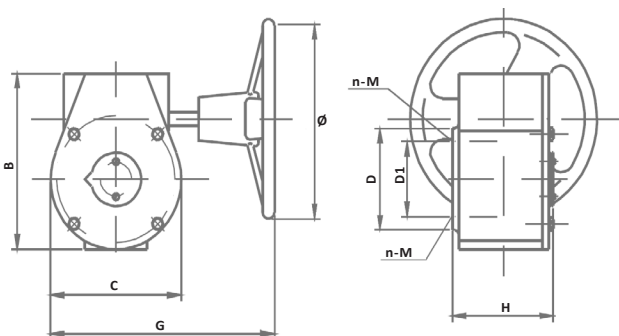
N°	Name	Material
1	Key Only for DN 600+	Carbon Steel (2 pcs)
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron GGG 40
5	Stem	Stainless Steel SS 431
6	Disc	Ductile Iron
7	Seat	Vulcanized EPDM
8	Cover	Ductile Iron
9	Bolts and accessories	Stainless Steel SS 316
10	Gearbox	Ductile Iron

Gearbox Dimensions

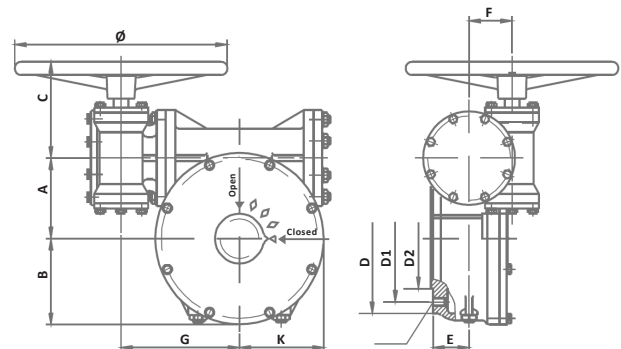
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	ØD*	n-M
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350



DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

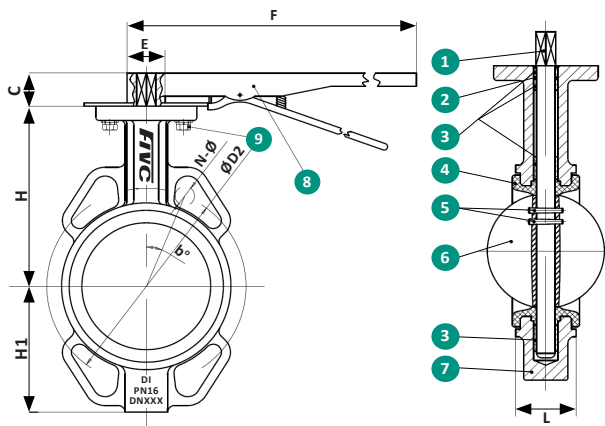
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
WAFN30040MNEPV1620	40	105	73	32	33	110	4-Ø19	45	35	223	3.7	15.1	86
WAFN30050MNEPV1620	50	130	85	32	33	125	4-Ø19	45	35	223	3.9	16	86
WAFN30065MNEPV1620	65	140	94	32	46	145	4-Ø19	45	35	223	4.3	17.2	86
WAFN30080MNEPV1620	80	145	105	32	46	160	4-Ø19	22.5	35	223	5	23.1	86
WAFN30100MNEPV1620	100	160	126	32	52	180	4-Ø19	22.5	35	263	7	39.8	169
WAFN30125MNEPV1620	125	170	140	32	56	210	4-Ø19	22.5	35	263	9	61.9	291
WAFN30150MNEPV1620	150	190	151	32	56	240	4-Ø23	22.5	35	263	11	102	291
WAFN30200MNEPV1620	200	220	183	35	60	295	4-Ø23	15	48	358	28	192	465

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2

Product Specification



N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Pin	Stainless Steel SS 431 DN 40-100: 1 pcs. DN 125-200: 2 pcs.
6	Disc	Ductile Iron
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – w/Pin – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2*	N-M	b° or a°	E* or C*	F*	Øv* or v*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
WAFN30065MDVEPV1620	65	140	94	-	46	145	4-Ø19	45	65	154	135	9	17.2	86	200	24:1	6
WAFN30080MDVEPV1620	80	145	105	-	46	160	4-Ø19	22.5	65	154	135	10	23.1	86	200	24:1	6
WAFN30100MDVEPV1620	100	160	126	-	52	180	4-Ø19	22.5	65	154	135	11.5	39.8	169	200	24:1	6
WAFN30125MDVEPV1620	125	170	140	-	56	210	4-Ø19	22.5	65	154	135	14	61.9	291	200	24:1	6
WAFN30150MDVEPV1620	150	190	151	-	56	240	4-Ø23	22.5	65	154	135	15.5	102	291	200	24:1	6
WAFN30200MDVEPV1620	200	220	183	-	60	295	4-Ø23	15	77	225	285	28	192	465	500	32:1	8
WAFN30250MDVEPV1620	250	260	217	-	68	355	4-Ø28	15	77	225	285	35	323	993	500	32:1	8
WAFN30300MDVEPV1620	300	290	252	-	78	410	4-Ø28	15	80	215	285	50	490	1360	1200	50:1	12.5
WAFN30350MDVEPV1620	350	320	285	-	78	470	4-Ø28	11.25	80	215	285	60	625	1360	1200	50:1	12.5
WAFN30400MDVEPV1620	400	356	315	271	102	525	4-Ø31	11.25	120	124	385	130	846	2356	2.5x10 ³	560:1	140
WAFN30450MDVEPV1620	450	387	384	271	114	585	4-Ø31	9	120	124	385	150	1131	3394	2.5x10 ³	560:1	140
WAFN30500MDVEPV1620	500	424	390	271	127	650	4-Ø34	9	121	256	285	200	1431	4120	2.5x10 ³	560:1	140
WAFN30600MDVEPV1620	600	524	455	330	154	770	4-Ø37	9	130	285	385	270	2301	6781	4x10 ³	506:1	140

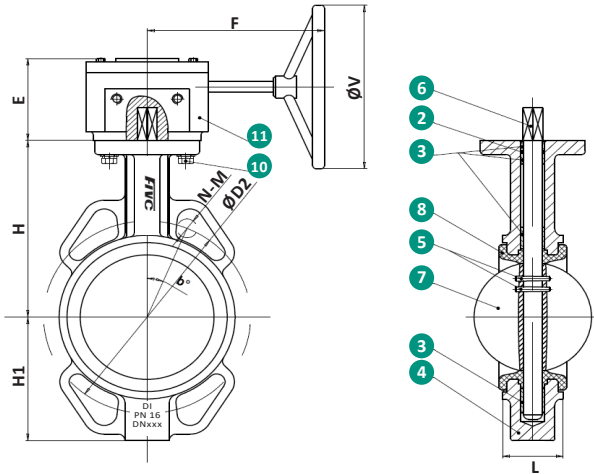
*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

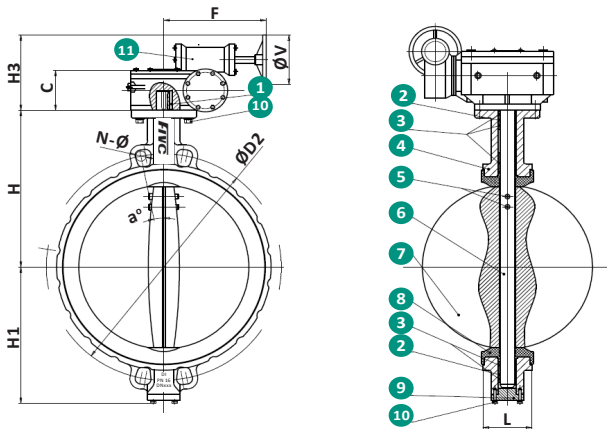
Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

DN 65-350



DN 400-600



Product Specification

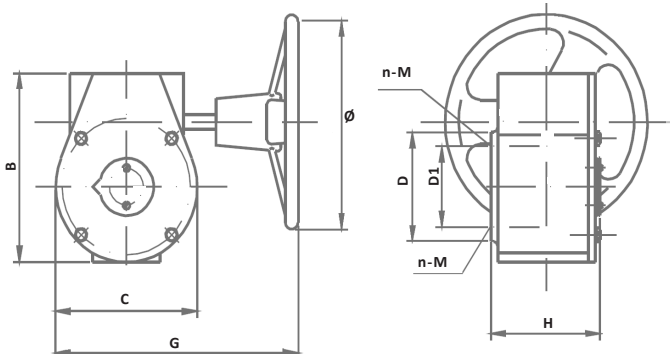
N°	Name	Material
1	Key <i>Only for DN 600+</i>	Carbon Steel (2 pcs)
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+: 2 pcs.
6	Stem	Stainless Steel SS 431
7	Disc	Ductile Iron GGG 40
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron
10	Bolts and accessories	Stainless Steel SS 316
11	Gearbox	Ductile Iron

Gearbox Dimensions

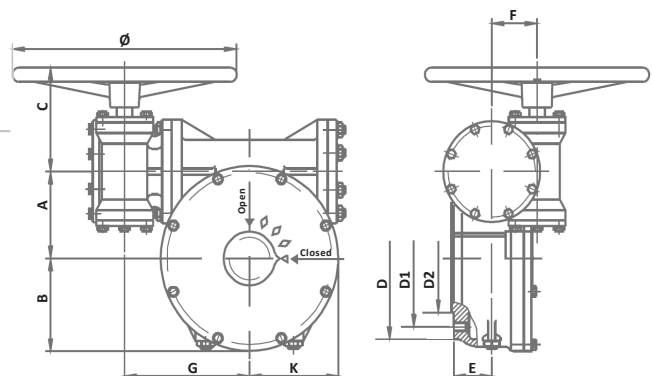
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M*
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350



DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Replaceable – Pinless – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1
(series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Powdery products
- Fire fighting
- General services
- Irrigation
- Shipbuilding

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

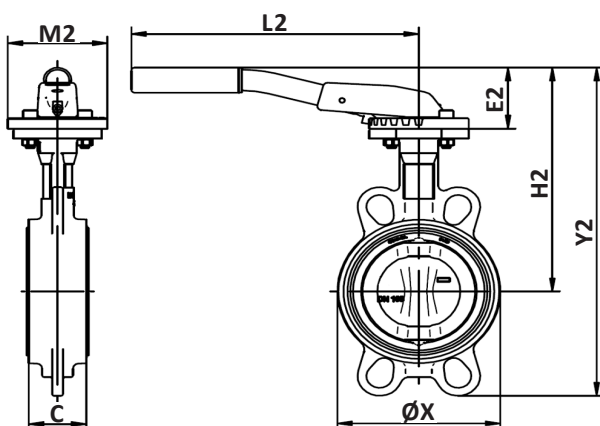
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 32+ 	

Dimensions



Product Information

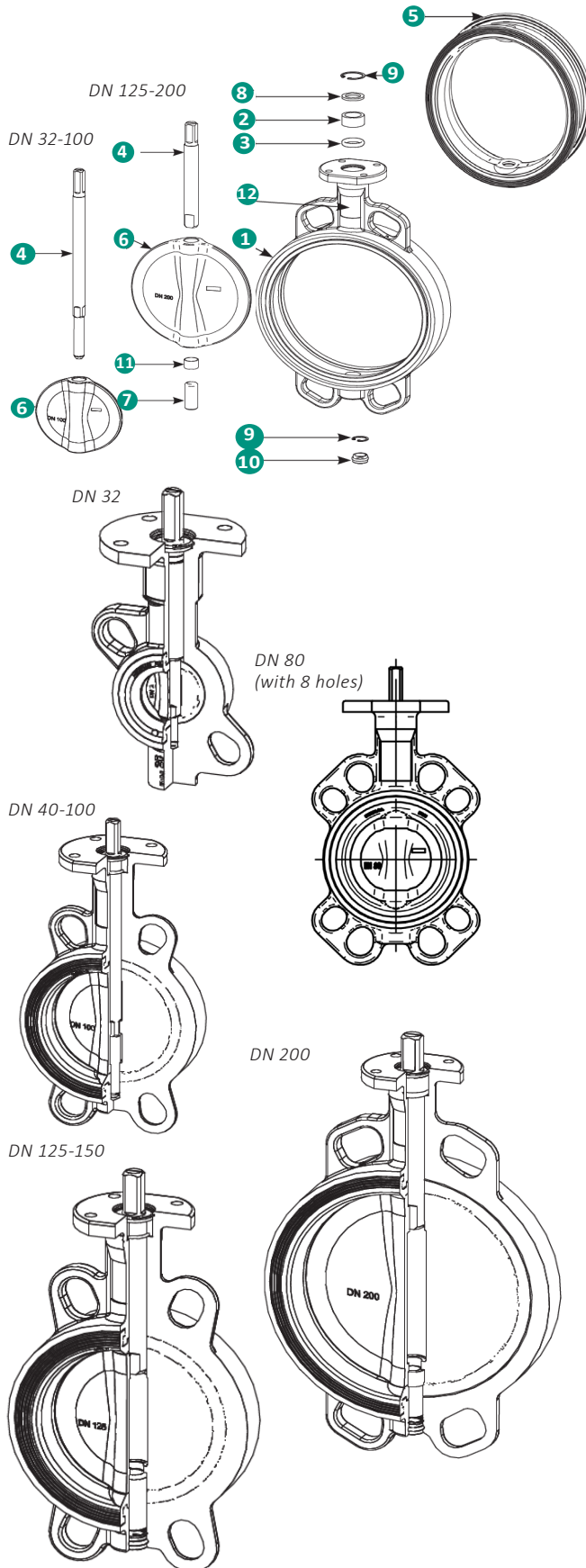
Product code	Size (DN)	N°**	C*	X*	E2*	H2*	Y2*	L2*	M2*	Kg
WAFN30032MNENR1601	32	4	33	68	49	151.5	211.7	220	90	1.9
WAFN30040MNENR1601	40	4	33	76	49	159	215	220	90	2.0
WAFN30050MNENR1601	50	4	43	100	49	169	230.5	220	90	2.8
WAFN30065MNENR1601	65	4	46	108	49	184	253	220	90	3.1
WAFN30080MNENR1601	80	8	46	124	60	201	295	260	90	3.7
WAFN30100MNENR1601	100	4	52	147	60	225	33	260	90	4.5
WAFN30125MNENR1601	125	4	56	180	75	255	381	315	90	6.8
WAFN30150MNENR1601	150	4	56	206	75	268	401	315	90	7.9
WAFN30200MNENR1601	200	4	60	257	75	300	470	315	90	11.7

*Dimensions are in millimeters ** N°: Number of holes pcs

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Replaceable – Pinless – EN 1092-2

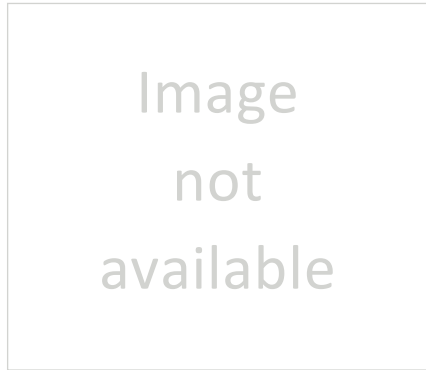
Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron EN-GJS-400-15
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features tag	Polyester

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1
(series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Fire fighting

WAF series

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

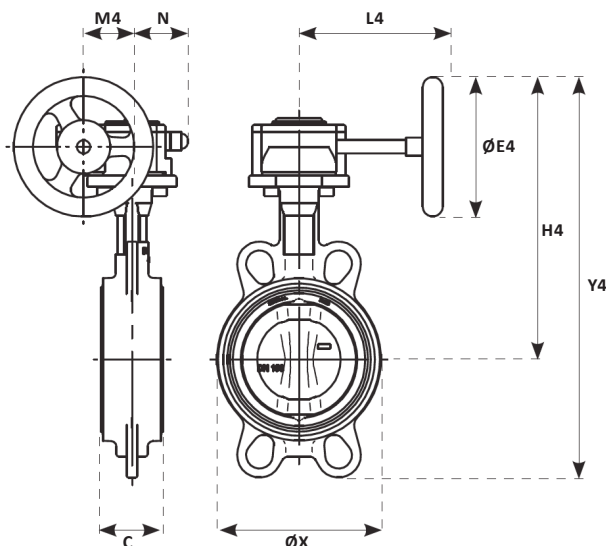
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions



Product Information

Product code	Size (DN)	C*	X*	E4*	H4*	Y4*	L4*	M4*	N*	Kg
WAFN30150MDVENR1601	150	56	206	160	298.5	431.5	135	43.5	50.5	8.7
WAFN30200MDVENR1601	200	60	257	200	355	525	152	52.5	59	13.7
WAFN30250MDVENR1601	250	68	324	250	442.5	652.5	222	61.2	70.5	23.7
WAFN30300MDVENR1601	300	78	376	250	468	708	222	61.2	70.5	33.1
WAFN30350MDVENR1601	350	78	430	250	498.5	761.5	222	61.2	70.5	38.7
WAFN30400MDVENR1601	400	102	485	300	572.5	880.5	278	68.8	70.5	64.4
WAFN30450MDVENR1601	450	114	536	400	630.5	970.5	321	96.5	91.5	98.1
WAFN30500MDVENR1601	500	127	593	400	682.5	1063	321	96.5	91.5	132
WAFN30600MDVENR1601	600	154	690	500	798.5	1239	408	137.5	140	205
WAFN30700MDVENR1601	700	165	830	600	944.5	1435	424	137.5	140	288
WAFN30750MDVENR1601	750	190	836	600	944.5	1475	456	137.5	140	336
WAFN30800MDVENR1601	800	190	902	600	984.5	1550	456	137.5	140	388
WAFN30900MDVENR1601	900	203	1010	700	1109	1719	510	180	156	520
WAFN31000MDVENR1601	1000	216	1116	700	1184	1859	579	180	156	647
WAFN31100MDVENR1601	1100	216	1215	700	1229	1962	579	180	156	782
WAFN31200MDVENR1601	1200	254	1334	700	1310	2128	593	252	228	1159

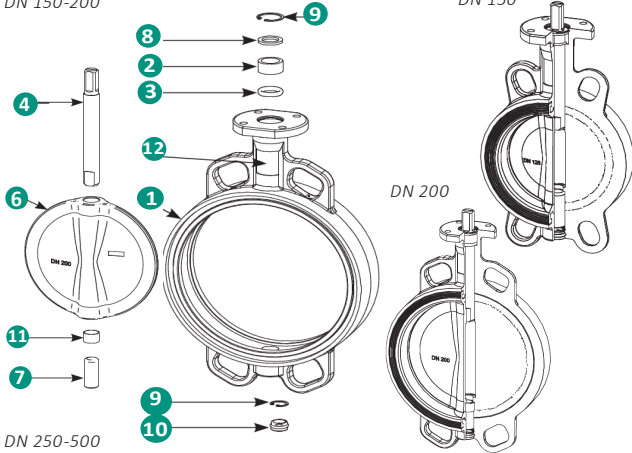
*Dimensions are in millimeters

FIVC Butterfly Valve

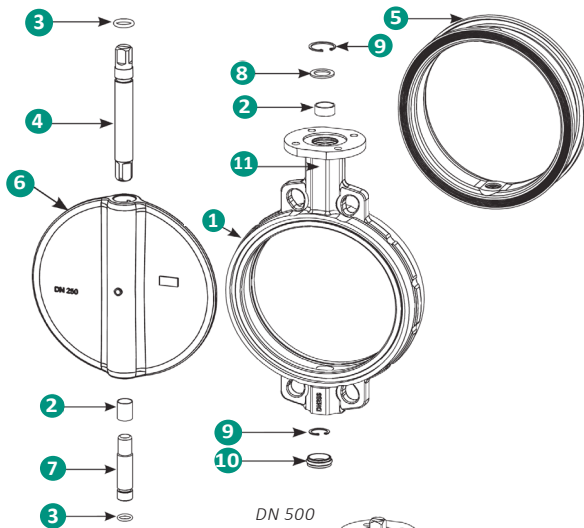
Ductile Iron – PN 16 – Wafer – Gearbox – Replaceable – Pinless – EN 1092-2

Product Specification

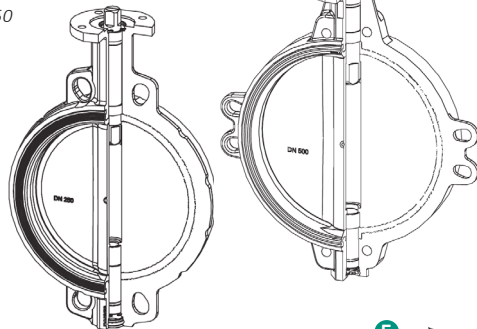
DN 150-200



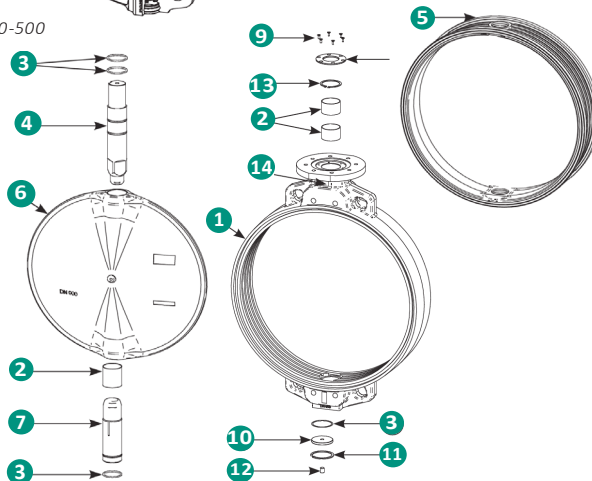
DN 250-500



DN 250-450

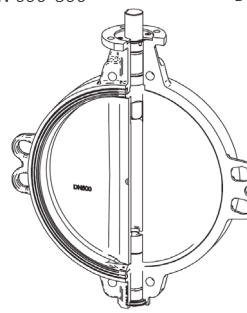


DN 250-500

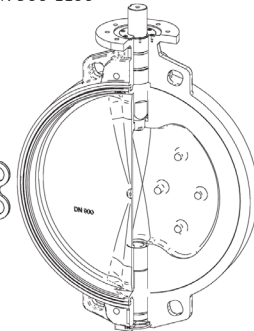


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron EN-GJS-400-15
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

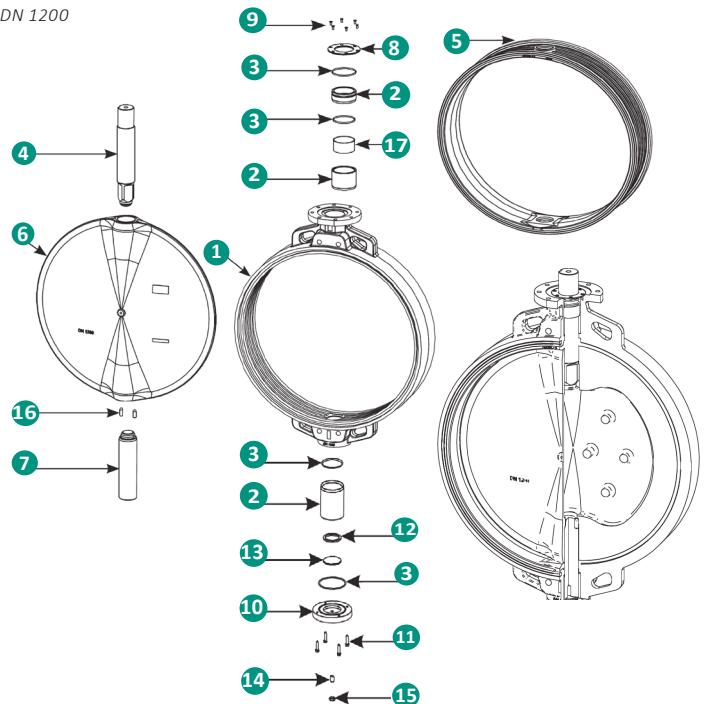
DN 600-800



DN 900-1100



DN 1200



FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch handlever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type: Drilling: PN 25
Shaft: SS AISI 431
Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 25 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 16 • PN 20 • ANSI 150 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

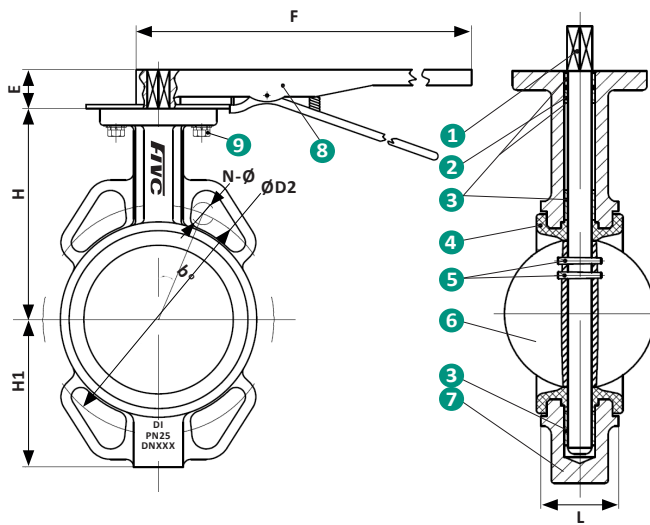
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
WAFN30040MNEPV2520	40	105	73	32	33	110	4-Ø19	45	35	223	3.7	23	86
WAFN30050MNEPV2520	50	130	85	32	33	125	4-Ø19	45	35	223	3.9	23	86
WAFN30065MNEPV2520	65	140	94	32	46	145	4-Ø19	22.5	35	223	4.5	26	86
WAFN30080MNEPV2520	80	145	105	32	46	160	4-Ø19	22.5	35	223	5.5	35	86
WAFN30100MNEPV2520	100	160	126	32	52	190	4-Ø23	22.5	35	223	7.7	60	169
WAFN30125MNEPV2520	125	170	140	32	56	220	4-Ø28	22.5	35	223	10	93	291
WAFN30150MNEPV2520	150	190	151	32	56	250	4-Ø28	22.5	35	223	12	153	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Pin	Stainless Steel SS 316 DN 40-100: 1 pcs. DN 125-200: 2 pcs.
6	Disc	Ductile Iron GGG 40
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Gearbox – Vulcanized – w/Pin – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 25
 - Shaft: DN 65-350: SS AISI 316
DN 400+: SS AISI 630
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 25 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 16 • PN 20 • ANSI 150 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	H*	H1*	L*	ØD2*	N-M	b° or a°	E*	F*	Øv* or V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
														OT N-M	Ratio	N° of turns
WAFN30065MDVEPV2520	65	140	94	46	145	4-Ø19	22.5	65	154	135	9.5	26	86	200	24:1	6
WAFN30080MDVEPV2520	80	145	105	46	160	4-Ø19	22.5	65	154	135	10.6	35	86	200	24:1	6
WAFN30100MDVEPV2520	100	160	126	52	190	4-Ø23	22.5	65	154	135	12.5	60	169	200	24:1	6
WAFN30125MDVEPV2520	125	170	140	56	220	4-Ø28	22.5	65	154	135	15	93	291	200	24:1	6
WAFN30150MDVEPV2520	150	190	151	56	250	4-Ø28	22.5	65	154	135	17	153	291	200	24:1	6
WAFN30200MDVEPV2520	200	220	183	60	310	4-Ø28	15	77	225	285	30	288	992	500	32:1	8
WAFN30250MDVEPV2520	250	260	217	68	370	4-Ø31	15	77	225	285	38	485	1360	500	32:1	8
WAFN30300MDVEPV2520	300	290	252	78	430	4-Ø31	11.25	80	215	285	55	735	1563	1200	50:1	12.5
WAFN30350MDVEPV2520	350	320	285	78	490	4-Ø34	11.25	80	215	285	70	938	2356	1200	50:1	12.5
WAFN30400MDVEPV2521	400	356	325	102	550	4-Ø37	11.25	121	256	285	145	1269	3928	2.5x10 ³	560:1	140
WAFN30450MDVEPV2521	450	387	384	114	600	4-Ø37	9	121	256	285	170	1697	5072	2.5x10 ³	560:1	140
WAFN30500MDVEPV2521	500	424	392	127	660	4-Ø37	9	121	256	285	230	2147	6788	2.5x10 ³	560:1	140
WAFN30600MDVEPV2521	600	524	455	154	770	4-Ø41	9	-	285	385	300	3452	10780	4x10 ³	506:1	140

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

WAFN3_MDVEPV_2520 08.2017

All data sheets are subject to changes without prior notice

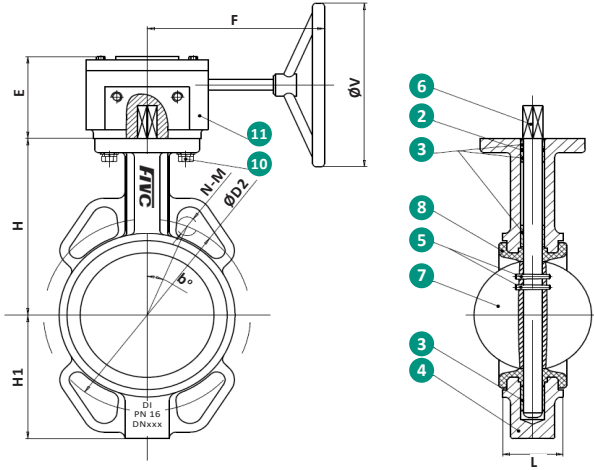
www.flowconivc.com

FIVC Butterfly Valve

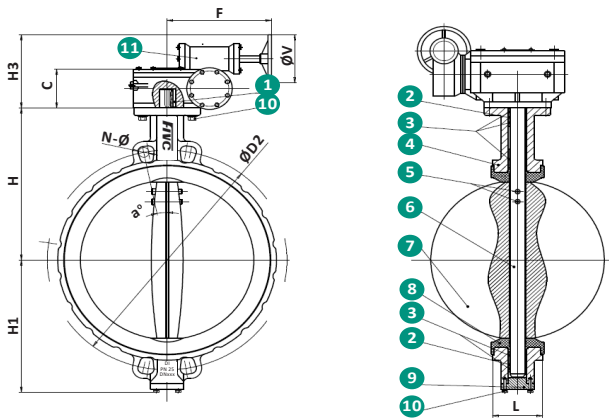
Ductile Iron – PN 25 – Wafer – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

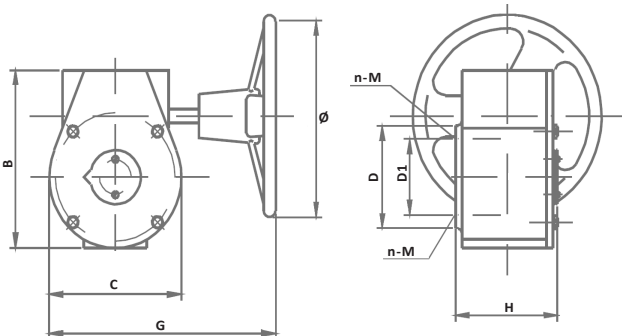
DN 65-350



DN 400-600



DN 65-350



Product Specification

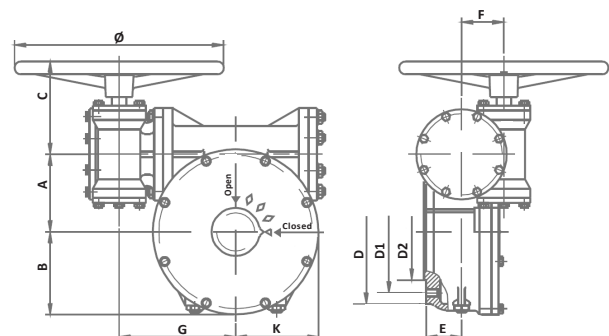
N°	Name	Material
1	Key Only for DN 600+	Carbon Steel (2 pcs)
2	O-Ring	NBR
3	Bushing	Brass
4	Body	Ductile Iron
5	Pin	Stainless Steel SS 316 DN 40-100: 1 pcs. DN 125+: 2 pcs.
6	Stem	DN 65-350: Stainless Steel SS 316 DN 400+: Stainless Steel SS 630
7	Disc	Ductile Iron
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron
10	Bolts and accessories	Stainless Steel SS 316
11	Gearbox	Ductile Iron

Gearbox Dimensions

Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 400 – 800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Handlever – Replaceable – w/Pin – WRAS – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
WRAS approval
- Standard: BS EN 593
- Dimensions: BS EN 1092-2
- Type: Drilling: PN 16
Shaft: SS AISI 410
Thread: Wafer

Field of applications

- Temperature range: -15 to 85 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

The valve can be used for drinking water.

Declaration

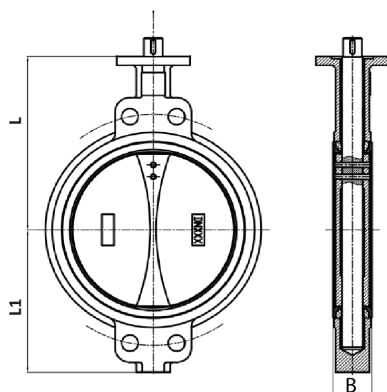
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Alternative Product Versions

Disc	Standard	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron 	<ul style="list-style-type: none"> • BS 5155 • ISO 5752 • MSS SP-67 • API 609 	<ul style="list-style-type: none"> • Vulcanized 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 10 • PN 25 	<ul style="list-style-type: none"> • DN 50+ 	

Dimensions



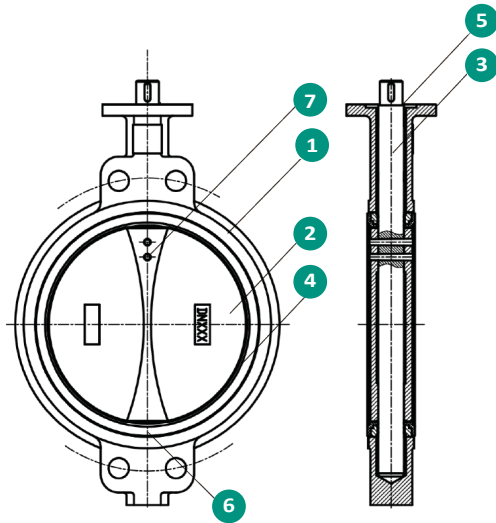
Product code	Size (DN)	L*	L1*	B*
WAFN50065MNEPR1632	65	175	86	44.5
WAFN50080MNEPR1632	80	181	94	44.5
WAFN50100MNEPR1632	100	200	112.4	51
WAFN50125MNEPR1632	125	213	130	54.5
WAFN50150MNEPR1632	150	226	149.8	54.5
WAFN50200MNEPR1632	200	260	190	59.6
WAFN50250MNEPR1632	250	292	225	67
WAFN50300MNEPR1632	300	337	255	75.5
WAFN50350MNEPR1632	350	368	302	75.5
WAFN50400MNEPR1632	400	400	354	102
WAFN50450MNEPR1632	450	422	385	114
WAFN50500MNEPR1632	500	480	438	130
WAFN50600MNEPR1632	600	562	464	151

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Handlever – Replaceable – w/Pin – WRAS – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Stainless Steel A351 CF8M
3	Shaft	Stainless Steel A276 SS 410
4	Seat	EPDM
5	O-Ring	EPDM
6	Bushing	Bronze B62 C83600
7	Pin	Stainless Steel BS970 316S11

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Replaceable – w/Pin – WRAS – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
WRAS approval
- Standard: BS EN 593
- Dimensions: BS EN 1092-2
- Type: Drilling: PN 16
Shaft: SS AISI 410
Thread: Wafer

Field of applications

- Temperature range: -15 to 85 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

The valve can be used for drinking water.

Declaration

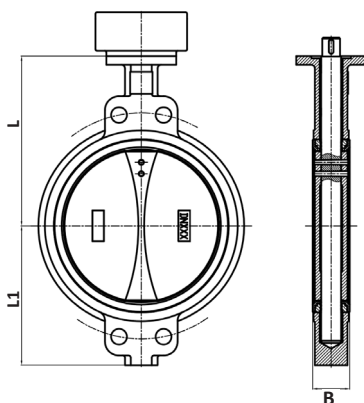
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Alternative Product Versions

Disc	Standard	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron 	<ul style="list-style-type: none"> • BS 5155 • ISO 5752 • MSS SP-67 • API 609 	<ul style="list-style-type: none"> • Vulcanized 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 10 • PN 25 	<ul style="list-style-type: none"> • DN 50+ 	

Dimensions



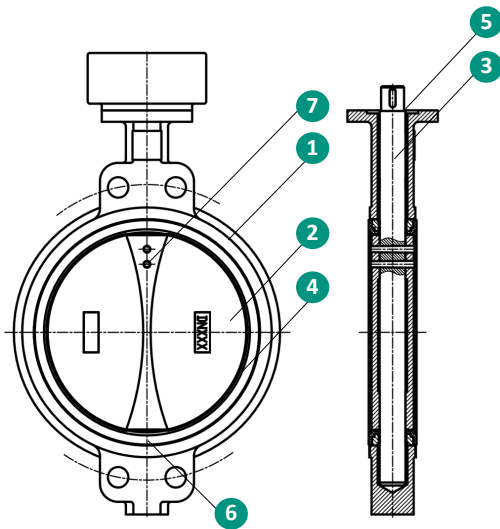
Product code	Size (DN)	L*	L1*	B*	Kg
WAFN50065MDVEPR1632	65	175	86	44.5	-
WAFN50080MDVEPR1632	80	181	94	44.5	-
WAFN50100MDVEPR1632	100	200	112.4	51	-
WAFN50125MDVEPR1632	125	213	130	54.5	-
WAFN50150MDVEPR1632	150	226	149.8	54.5	-
WAFN50200MDVEPR1632	200	260	190	59.6	-
WAFN50250MDVEPR1632	250	292	225	67	-
WAFN50300MDVEPR1632	300	337	255	75.5	-
WAFN50350MDVEPR1632	350	368	302	75.5	-
WAFN50400MDVEPR1632	400	400	354	102	-
WAFN50450MDVEPR1632	450	422	385	114	-
WAFN50500MDVEPR1632	500	480	438	130	-
WAFN50600MDVEPR1632	600	562	464	151	-

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Replaceable – w/Pin – WRAS – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Stainless Steel A351 CF8M
3	Shaft	Stainless Steel A276 SS 410
4	Seat	EPDM
5	O-Ring	EPDM
6	Bushing	Bronze B62 C83600
7	Pin	Stainless Steel BS970 316S11

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – Pinless – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the construction ensures to good corrosion resistance.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

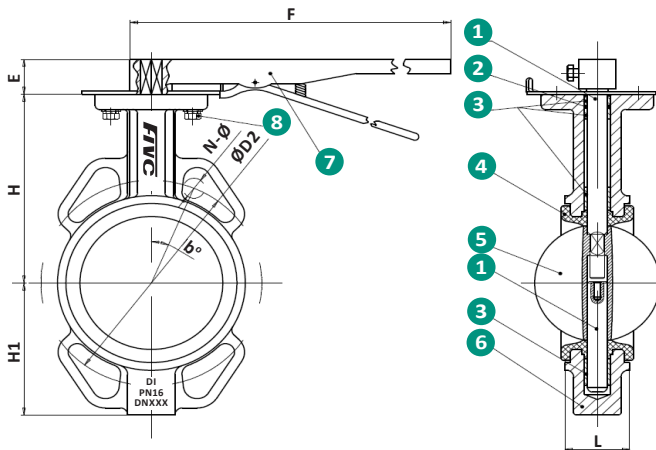
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
WAFN50040MNENV1620	40	105	73	32	32	110	4-Ø19	45	35	223	3.7	15.1	86
WAFN50050MNENV1620	50	130	85	32	32	125	4-Ø19	45	35	223	3.9	16	86
WAFN50065MNENV1620	65	140	94	32	46	145	4-Ø19	45	35	223	4.3	17.2	86
WAFN50080MNENV1620	80	145	105	32	46	160	4-Ø19	22.5	35	223	5	23.1	86
WAFN50100MNENV1620	100	160	126	32	52	180	4-Ø19	22.5	35	223	7	39.8	169
WAFN50125MNENV1620	125	170	140	32	56	210	4-Ø19	22.5	35	223	9	61.9	291
WAFN50150MNENV1620	150	190	151	32	56	240	4-Ø23	22.5	35	223	11	102	291
WAFN50200MNENV1620	200	220	183	35	60	295	4-Ø23	22.5	38	358	11	102	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – Pinless – EN 1092-2

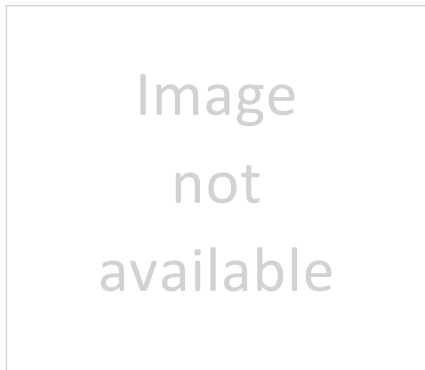
Product Specification



N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Disc	Stainless Steel CF8M
6	Body	Ductile Iron GGG 40
7	Handle	Malleable Iron
8	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

WAF series

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the construction ensures to good corrosion resistance.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pin 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch handle/lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2*	N-M	b° or a°	E* or C*	F*	Øv* or V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
WAFN50065MDVENV1620	65	140	94	-	46	145	4-Ø19	45	65	154	135	9	17.2	86	200	24:1	6
WAFN50080MDVENV1620	80	145	105	-	46	160	4-Ø19	22.5	65	154	135	10	23.1	86	200	24:1	6
WAFN50100MDVENV1620	100	160	126	-	52	180	4-Ø19	22.5	65	154	135	11.5	39.8	169	200	24:1	6
WAFN50125MDVENV1620	125	170	140	-	56	210	4-Ø19	22.5	65	154	135	14	61.9	291	200	24:1	6
WAFN50150MDVENV1620	150	190	151	-	56	240	4-Ø23	22.5	65	154	135	15.5	102	291	200	24:1	6
WAFN50200MDVENV1620	200	220	183	-	60	295	4-Ø23	22.5	77	225	285	28	192	465	500	32:1	8
WAFN50250MDVENV1620	250	260	217	-	68	355	4-Ø28	15	77	225	285	35	323	993	500	32:1	8
WAFN50300MDVENV1620	300	290	252	-	78	410	4-Ø28	15	80	215	285	50	490	1360	1200	50:1	12.5
WAFN50350MDVENV1620	350	320	285	-	78	470	4-Ø28	11.25	80	215	285	60	625	1360	1200	50:1	12.5
WAFN50400MDVENV1620	400	356	315	271	102	525	4-Ø31	11.25	121	256	285	130	846	2356	2.5x10 ³	560:1	140
WAFN50450MDVENV1620	450	387	384	271	114	585	4-Ø31	9	121	256	285	150	1131	3394	2.5x10 ³	560:1	140
WAFN50500MDVENV1620	500	424	390	271	127	650	4-Ø34	9	121	256	285	200	1431	4120	2.5x10 ³	560:1	140
WAFN50600MDVENV1620	600	524	455	330	154	770	4-Ø37	9	130	285	385	270	2301	6781	4x10 ³	506:1	140

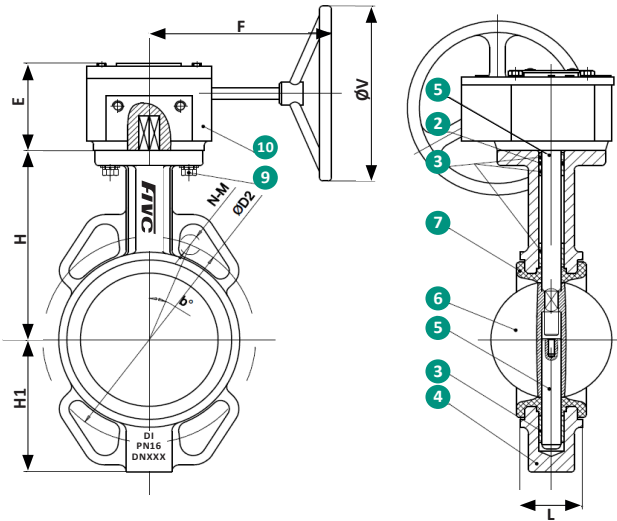
*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – Pinless – EN 1092-2

Dimensions

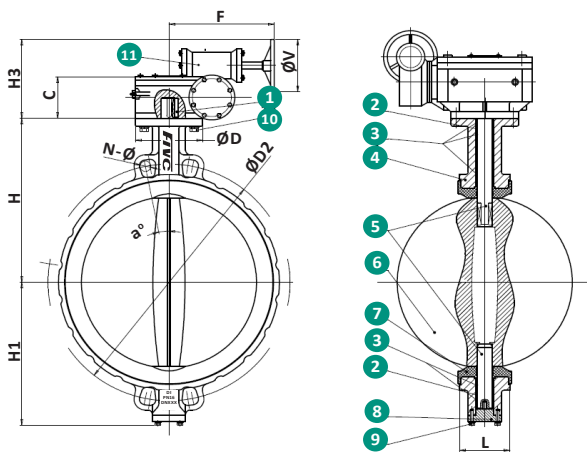
DN 65-350



Product Specification

N°	Name	Material
1	Key Only for DN 600+	Carbon Steel (2 pcs)
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron GGG 40
5	Stem	Stainless Steel SS 431
6	Disc	Stainless Steel CF8M
7	Seat	Vulcanized EPDM
8	Cover	Ductile Iron
9	Bolts and accessories	Stainless Steel SS 316
10	Gearbox	Ductile Iron

DN 400-600

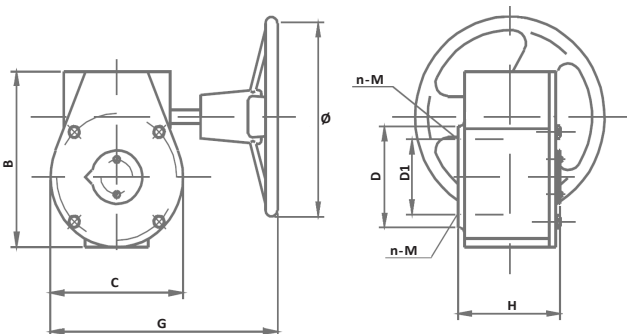


Gearbox Dimensions

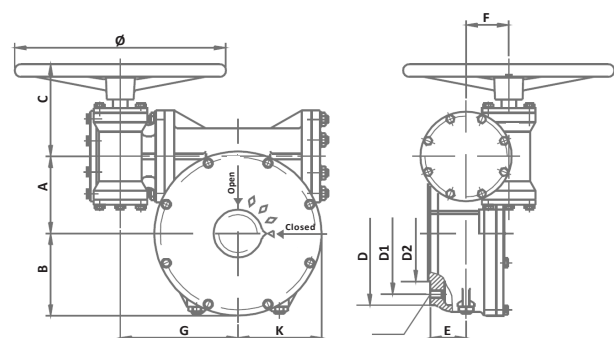
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	ØD*	n-M
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350



DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions

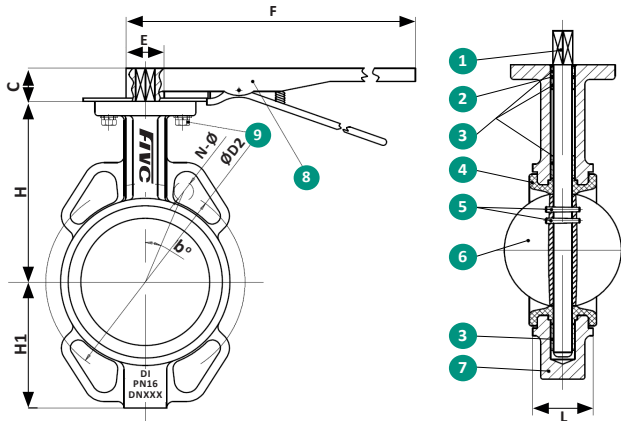
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
WAFN50040MNEPV1620	40	105	73	32	33	110	4-Ø19	45	35	223	3.7	15.1	86
WAFN50050MNEPV1620	50	130	85	32	33	125	4-Ø19	45	35	223	3.9	16	86
WAFN50065MNEPV1620	65	140	94	32	46	145	4-Ø19	45	35	223	4.3	17.2	86
WAFN50080MNEPV1620	80	145	105	32	46	160	4-Ø19	22.5	35	223	5	23.1	86
WAFN50100MNEPV1620	100	160	126	32	52	180	4-Ø19	22.5	35	263	7	39.8	169
WAFN50125MNEPV1620	125	170	140	32	56	210	4-Ø19	22.5	35	263	9	61.9	291
WAFN50150MNEPV1620	150	190	151	32	56	240	4-Ø23	22.5	35	263	11	102	291
WAFN50200MNEPV1620	200	220	183	35	60	295	4-Ø23	15	48	358	28	192	465

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2

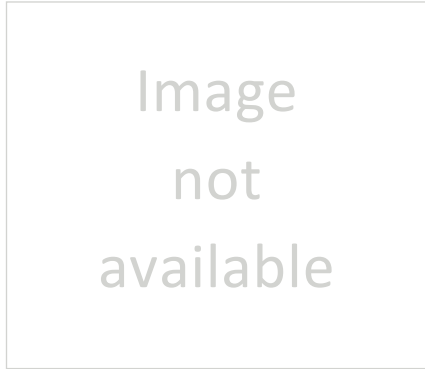
Product Specification



N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Pin	Stainless Steel SS 431 DN 40-100: 1 pcs. DN 125-200: 2 pcs.
6	Disc	Stainless Steel CF8M
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – w/Pin – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

WAF series

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2*	N-M	b° or a°	E* or C*	F*	Øv* or v*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
WAFN50065MDVEPV1620	65	140	94	-	46	145	4-Ø19	45	65	154	135	9	17.2	86	200	24:1	6
WAFN50080MDVEPV1620	80	145	105	-	46	160	4-Ø19	22.5	65	154	135	10	23.1	86	200	24:1	6
WAFN50100MDVEPV1620	100	160	126	-	52	180	4-Ø19	22.5	65	154	135	11.5	39.8	169	200	24:1	6
WAFN50125MDVEPV1620	125	170	140	-	56	210	4-Ø19	22.5	65	154	135	14	61.9	291	200	24:1	6
WAFN50150MDVEPV1620	150	190	151	-	56	240	4-Ø23	22.5	65	154	135	15.5	102	291	200	24:1	6
WAFN50200MDVEPV1620	200	220	183	-	60	295	4-Ø23	15	77	225	285	28	192	465	500	32:1	8
WAFN50250MDVEPV1620	250	260	217	-	68	355	4-Ø28	15	77	225	285	35	323	993	500	32:1	8
WAFN50300MDVEPV1620	300	290	252	-	78	410	4-Ø28	15	80	215	285	50	490	1360	1200	50:1	12.5
WAFN50350MDVEPV1620	350	320	285	-	78	470	4-Ø28	11.25	80	215	285	60	625	1360	1200	50:1	12.5
WAFN50400MDVEPV1620	400	356	315	271	102	525	4-Ø31	11.25	120	124	385	130	846	2356	2.5x10 ³	560:1	140
WAFN50450MDVEPV1620	450	387	384	271	114	585	4-Ø31	9	120	124	385	150	1131	3394	2.5x10 ³	560:1	140
WAFN50500MDVEPV1620	500	424	390	271	127	650	4-Ø34	9	121	256	285	200	1431	4120	2.5x10 ³	560:1	140
WAFN50600MDVEPV1620	600	524	455	330	154	770	4-Ø37	9	130	285	385	270	2301	6781	4x10 ³	506:1	140

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

WAFN5_MDVEPV_1620 08.2017

All data sheets are subject to changes without prior notice

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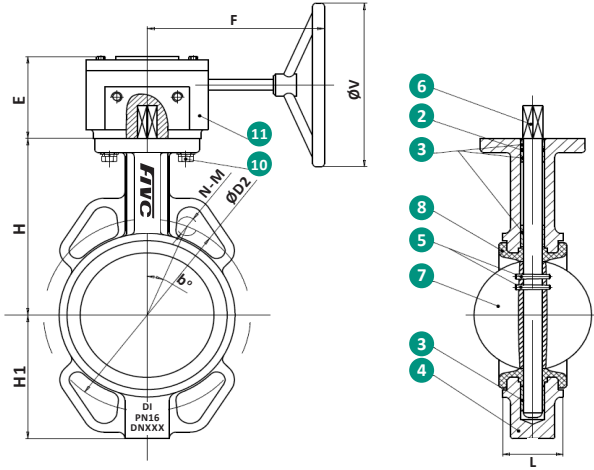
1 / 2

FIVC Butterfly Valve

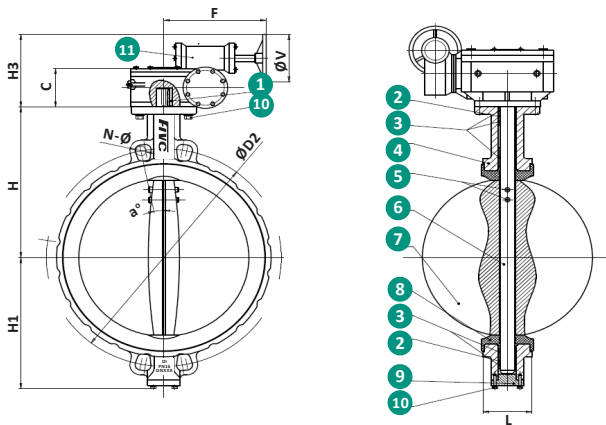
Ductile Iron – PN 16 – Wafer – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

DN 65-350



DN 400-600



Product Specification

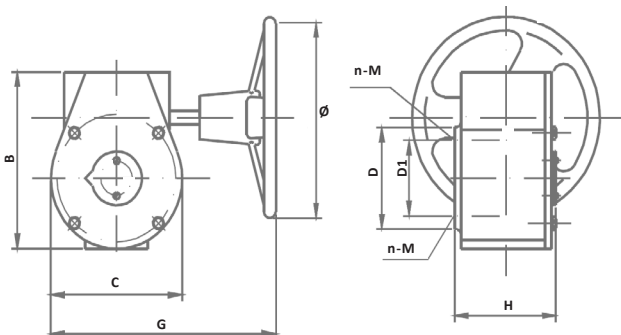
N°	Name	Material
1	Key <i>Only for DN 600+</i>	Carbon Steel (2 pcs)
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+; 2 pcs.
6	Stem	Stainless Steel SS 431
7	Disc	Stainless Steel CF8M
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron
10	Bolts and accessories	Stainless Steel SS 316
11	Gearbox	Ductile Iron

Gearbox Dimensions

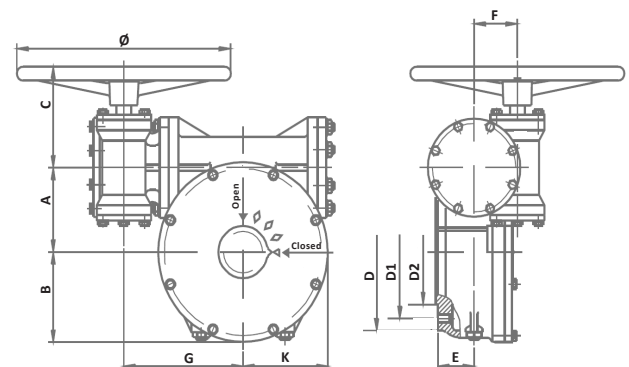
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M*
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350

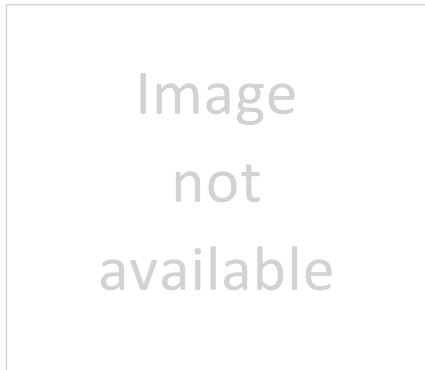


DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
Top flange acc. to ISO 5211/NFE 29-402
- Dimensions: Face-to-Face acc. to EN 558-1
(series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Powdery products
- Fire fighting
- General services
- Irrigation
- Shipbuilding

WAF series

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

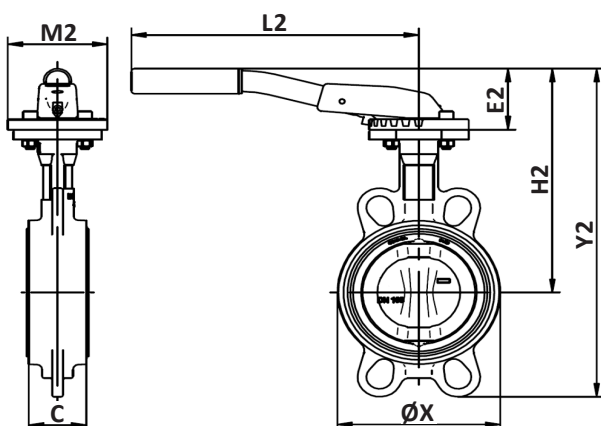
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 32+ 	

Dimensions



Product Information

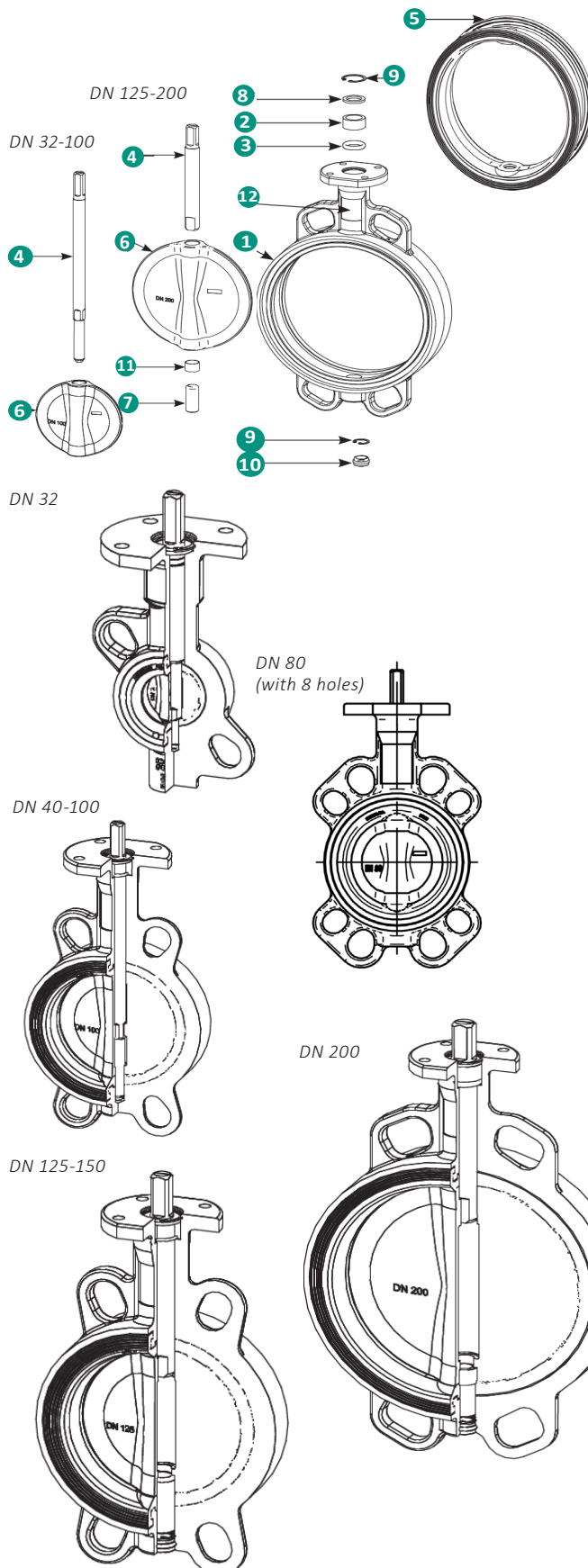
Product code	Size (DN)	N°**	C*	X*	E2*	H2*	Y2*	L2*	M2*	Kg
WAFN50032MNENR1601	32	4	33	68	49	151.5	211.7	220	90	1.9
WAFN50040MNENR1601	40	4	33	76	49	159	215	220	90	2.0
WAFN50050MNENR1601	50	4	43	100	49	169	230.5	220	90	2.8
WAFN50065MNENR1601	65	4	46	108	49	184	253	220	90	3.1
WAFN50080MNENR1601	80	8	46	124	60	201	295	260	90	3.7
WAFN50100MNENR1601	100	4	52	147	60	225	33	260	90	4.5
WAFN50125MNENR1601	125	4	56	180	75	255	381	315	90	6.8
WAFN50150MNENR1601	150	4	56	206	75	268	401	315	90	7.9
WAFN50200MNENR1601	200	4	60	257	75	300	470	315	90	11.7

*Dimensions are in millimeters ** N°: Number of holes pcs

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Hand lever – Replaceable – Pinless – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CF8M
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features tag	Polyester

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Gearbox – Replaceable – Pinless – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1
(series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powdery products
- Fire fighting

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

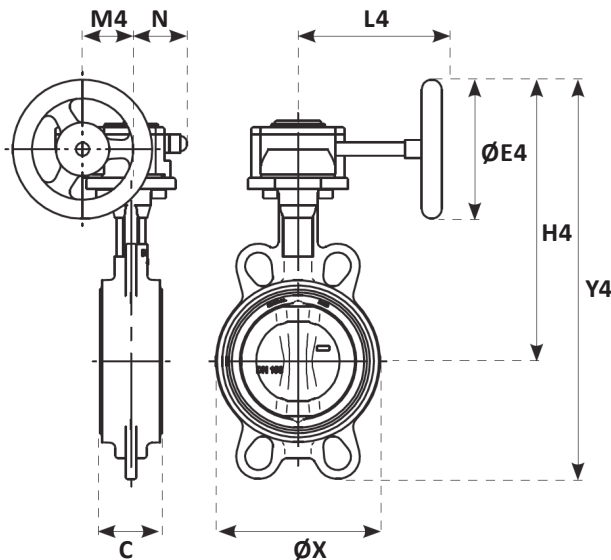
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Dimensions



WAFN5_MDVENR_1601 09.2017

All data sheets are subject to changes without prior notice

Product Information

Product code	Size (DN)	C*	X*	E4*	H4*	Y4*	L4*	M4*	N*	Kg
WAFN50150MDVENR1601	150	56	206	160	298.5	431.5	135	43.5	50.5	8.7
WAFN50200MDVENR1601	200	60	257	200	355	525	152	52.5	59	13.7
WAFN50250MDVENR1601	250	68	324	250	442.5	652.5	222	61.2	70.5	23.7
WAFN50300MDVENR1601	300	78	376	250	468	708	222	61.2	70.5	33.1
WAFN50350MDVENR1601	350	78	430	250	498.5	761.5	222	61.2	70.5	38.7
WAFN50400MDVENR1601	400	102	485	300	572.5	880.5	278	68.8	70.5	64.4
WAFN50450MDVENR1601	450	114	536	400	630.5	970.5	321	96.5	91.5	98.1
WAFN50500MDVENR1601	500	127	593	400	682.5	1063	321	96.5	91.5	132
WAFN50600MDVENR1601	600	154	690	500	798.5	1239	408	137.5	140	205
WAFN50700MDVENR1601	700	165	830	600	944.5	1435	424	137.5	140	288
WAFN50750MDVENR1601	750	190	836	600	944.5	1475	456	137.5	140	336
WAFN50800MDVENR1601	800	190	902	600	984.5	1550	456	137.5	140	388
WAFN50900MDVENR1601	900	203	1010	700	1109	1719	510	180	156	520
WAFN51000MDVENR1601	1000	216	1116	700	1184	1859	579	180	156	647
WAFN51100MDVENR1601	1100	216	1215	700	1229	1962	579	180	156	782
WAFN51200MDVENR1601	1200	254	1334	700	1310	2128	593	252	228	1159

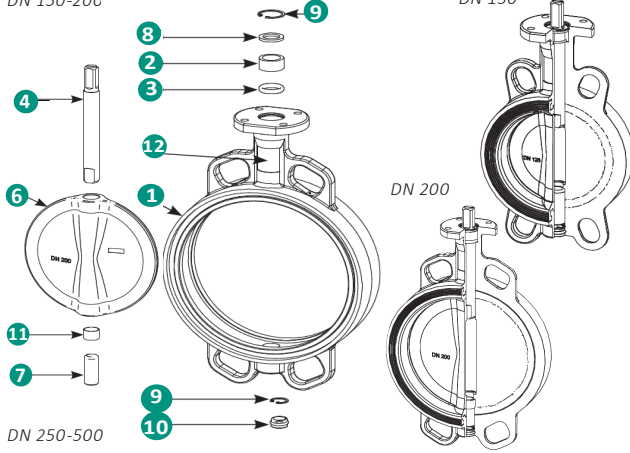
*Dimensions are in millimeters

FIVC Butterfly Valve

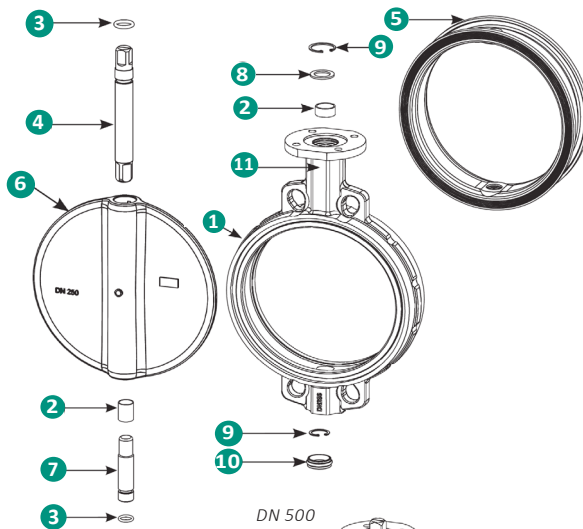
Ductile Iron – PN 16 – Wafer – Gearbox – Replaceable – Pinless – EN 1092-2

Product Specification

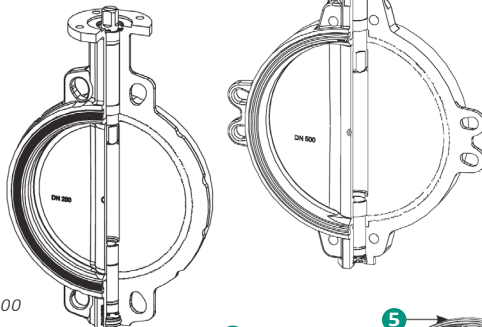
DN 150-200



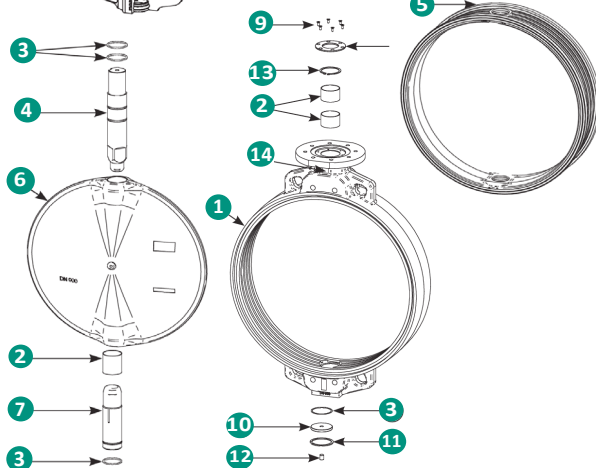
DN 250-500



DN 250-450

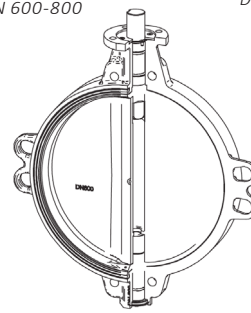


DN 250-500

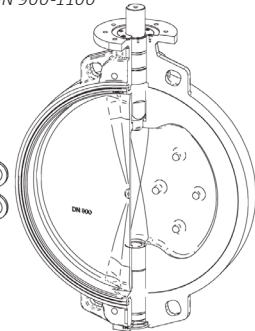


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CF8M
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

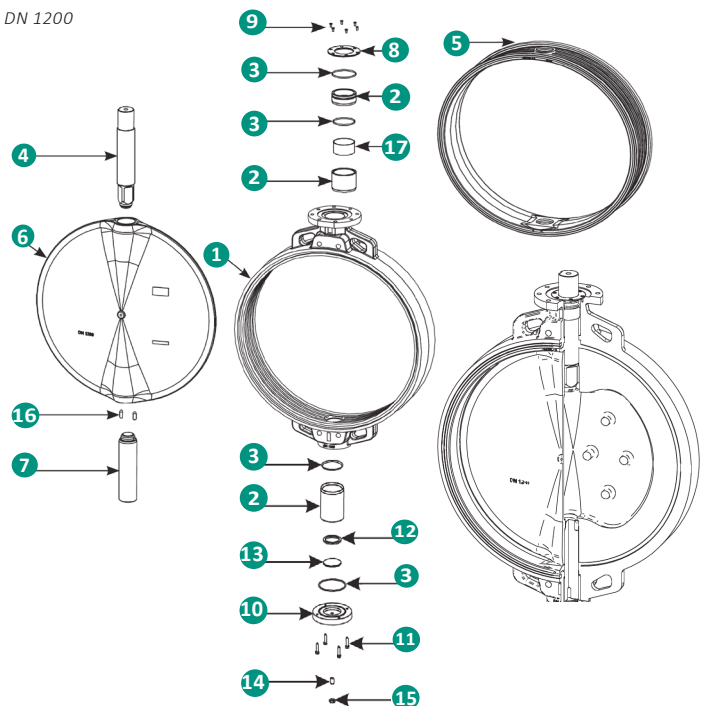
DN 600-800



DN 900-1100

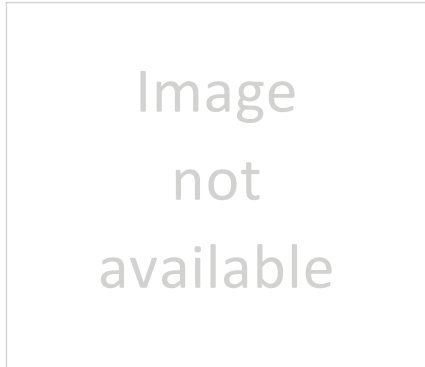


DN 1200



FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch handlever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to EN 558 (series 20)
- Inspection test: BS EN 12266-1
- Type: Drilling: PN 25
Shaft: SS AISI 431
Thread: Wafer

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 25 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

WAF series

Description

FIVC Wafer Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron • Alu-Bronze 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 16 • PN 20 • ANSI 150 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

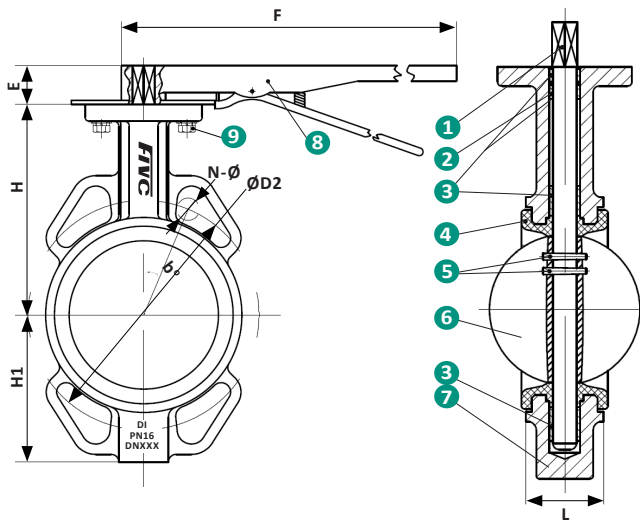
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b**	E*	F*	Kg	OTV (N.m)	BTV (N.m)
WAFN50040MNEPV2520	40	105	73	32	33	110	4-Ø19	45	35	223	3.7	23	86
WAFN50050MNEPV2520	50	130	85	32	33	125	4-Ø19	45	35	223	3.9	23	86
WAFN50065MNEPV2520	65	140	94	32	46	145	4-Ø19	22.5	35	223	4.5	26	86
WAFN50080MNEPV2520	80	145	105	32	46	160	4-Ø19	22.5	35	223	5.5	35	86
WAFN50100MNEPV2520	100	160	126	32	52	190	4-Ø23	22.5	35	223	7.7	60	169
WAFN50125MNEPV2520	125	170	140	32	56	220	4-Ø28	22.5	35	223	10	93	291
WAFN50150MNEPV2520	150	190	151	32	56	250	4-Ø28	22.5	35	223	12	153	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Hand lever – Vulcanized – w/Pin – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Pin	Stainless Steel SS 316 DN 40-100: 1 pcs. DN 125-200: 2 pcs.
6	Disc	Stainless Steel CF8M
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Lugged Butterfly Valve

Pin assembly
Pinless assembly
Vulcanized seat
Replaceable seat
Hand lever
Gearbox
Actuator



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever - Malleable Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type: Drilling: PN 16
Shaft: SS AISI 431
Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Product Information

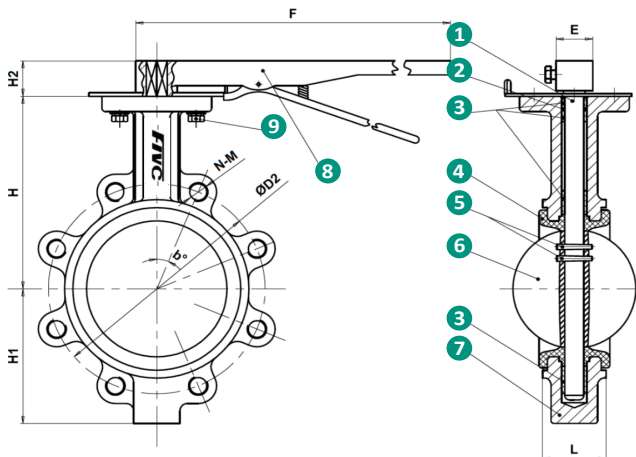
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
LUGN30040MNEPV1623	40	105	73	32	33	110	4-M16	45	35	223	5.1	15.1	86
LUGN30050MNEPV1623	50	130	85	32	33	125	4-M16	45	35	223	5.6	16	86
LUGN30065MNEPV1623	65	140	94	32	46	145	4-M16	45	35	223	7.3	17.2	86
LUGN30080MNEPV1623	80	145	105	32	46	160	8-M16	22.5	35	223	7.8	23.1	86
LUGN30100MNEPV1623	100	160	126	32	52	180	8-M16	22.5	35	263	12	39.8	169
LUGN30125MNEPV1623	125	170	140	32	56	210	8-M16	22.5	35	263	15.7	61.9	291
LUGN30150MNEPV1623	150	190	151	32	56	240	8-M20	22.5	35	263	17	102	291
LUGN30200MNEPV1623	200	220	183	35	60	295	12-M20	15	48	358	19	192	465

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass
4	Seat	EPDM - Vulcanized
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+: 2 pcs.
6	Disc	Ductile Iron
7	Body	Ductile Iron
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
 - Disc: Ductile Iron
 - Pin: Stainless Steel
 - Stem: Stainless Steel
 - Seat: Vulcanized EPDM
 - Operation: Gearbox in Ductile Iron
 - Coating: RAL 5015 (thickness 250 micron)
 - USP: Dead-end/center service
 - Standard: Standard acc. to BS EN 593
 - Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
-
- Type: Drilling: PN 16
Shaft: SS AISI 431
Thread: Metric
-
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valves with vulcanized seats are designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Bronze-Alu • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Product Information

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2	N-M	a°-b°*	C*	F*	ØV-V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
LUGN30065MDVEPV1623	65	140	94	-	46	145	4-M16	45	65	154	135	10.8	17.2	86	200	24:1	6
LUGN30080MDVEPV1623	80	145	105	-	46	160	8-M16	22.5	65	154	135	11.4	23.1	86	200	24:1	6
LUGN30100MDVEPV1623	100	160	126	-	52	180	8-M16	22.5	65	154	135	15	39.8	169	200	24:1	6
LUGN30125MDVEPV1623	125	170	140	-	56	210	8-M16	22.5	65	154	135	19.3	61.9	291	200	24:1	6
LUGN30150MDVEPV1623	150	190	151	-	56	240	8-M20	22.5	65	154	135	19	102	291	200	24:1	6
LUGN30200MDVEPV1623	200	220	183	-	60	295	12-M20	15	77	225	285	27.5	192	465	500	32:1	8
LUGN30250MDVEPV1623	250	260	217	-	68	355	12-M24	15	77	225	285	45.5	323	993	500	32:1	8
LUGN30300MDVEPV1623	300	290	252	-	78	410	12-M24	15	80	215	285	61.7	490	1360	1200	50:1	12.5
LUGN30350MDVEPV1623	350	320	285	-	78	470	16-M24	11.25	80	215	285	67.5	625	1360	1200	50:1	12.5
LUGN30400MDVEPV1623	400	356	315	271	102	525	16-M27	11.25	56	124	385	102	846	2356	2.5x103	560:1	140
LUGN30450MDVEPV1623	450	387	384	271	114	585	20-M27	9	56	124	385	208	1431	4120	2.5x103	560:1	140
LUGN30500MDVEPV1623	500	424	390	271	127	650	20-M30	9	121	256	385	200	1421	1421	2.5x103	560:1	140
LUGN30600MDVEPV1623	600	524	455	330	154	770	20-M33	9	130	285	385	320	2301	6781	4x103	506:1	140
LUGN30700MDVEPV1623	700	600	530	378	165	840	24-M33	7.5	149	337	425	431	4253	10961	8x103	704:1	176
LUGN30750MDVEPV1623	750	660	539	378	167	900	24-M36	7.5	149	337	425	476	4980	10961	8x103	704:1	176
LUGN30800MDVEPV1623	800	666	576	378	190	950	24-M36	7.5	149	337	425	568	5600	10961	8x103	704:1	176

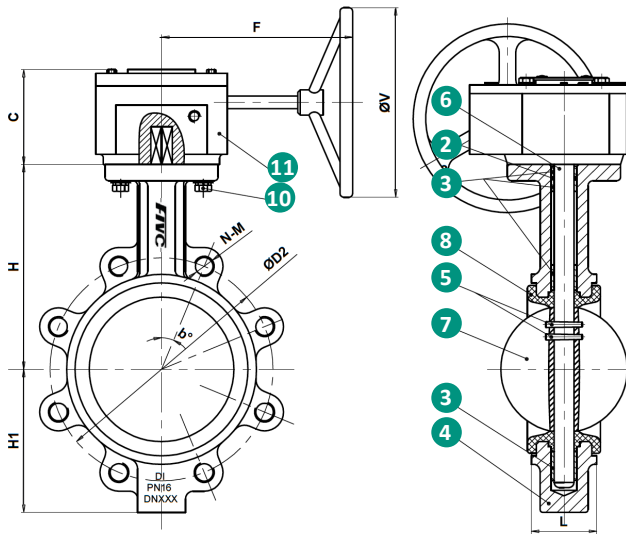
*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

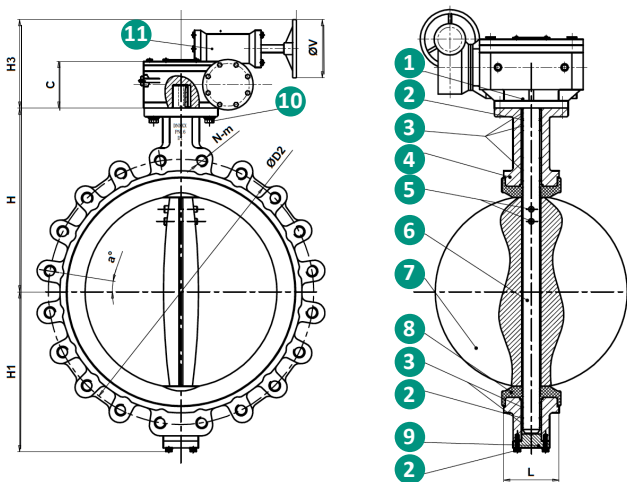
DN 65-350



Product Specification

N°	Name	Material
1	Key Only for DN 600+	Carbon Steel
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron
5	Pin	Stainless Steel SS 316 DN 40-100 1 pcs DN 125-350 2 pcs
6	Stem	Stainless Steel 431
7	Disc	Ductile Iron GGG 40
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron
10	Bolts and accessories	Stainless Steel 316
11	Gearbox	Ductile Iron GGG 40

DN 400-800

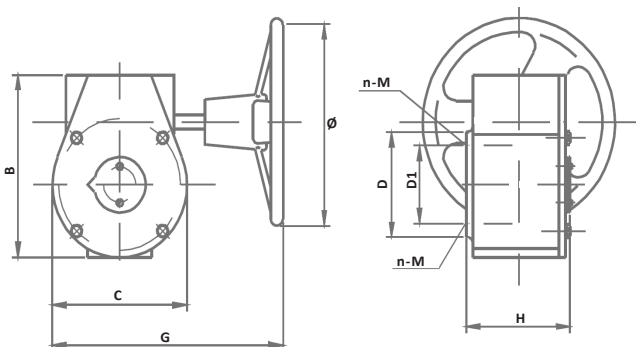


Gearbox Dimensions

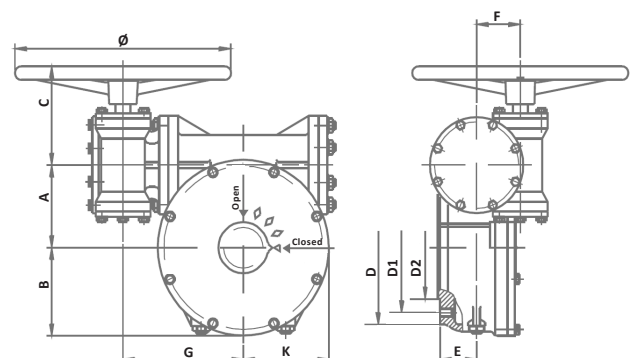
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350



DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever - Malleable Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+

Product Information

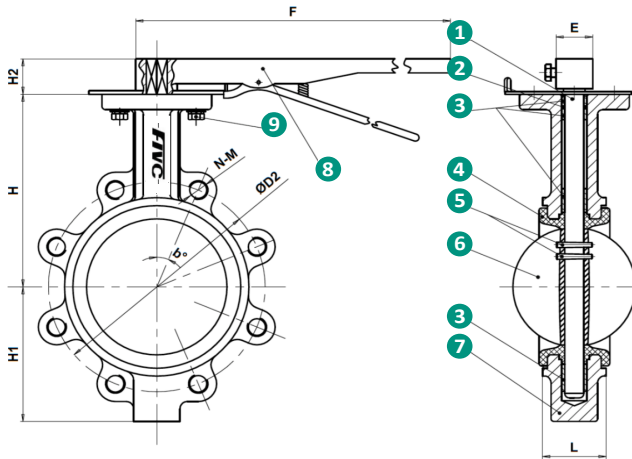
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
LUGN30040MNEPR1623	40	105	73	32	33	110	4-M16	45	35	223	5.1	15.1	86
LUGN30050MNEPR1623	50	130	85	32	33	125	4-M16	45	35	223	5.6	16	86
LUGN30065MNEPR1623	65	140	94	32	46	145	4-M16	45	35	223	7.3	17.2	86
LUGN30080MNEPR1623	80	145	105	32	46	160	8-M16	22.5	35	223	7.8	23.1	86
LUGN30100MNEPR1623	100	160	126	32	52	180	8-M16	22.5	35	223	12	39.8	169
LUGN30125MNEPR1623	125	170	140	32	56	210	8-M16	22.5	35	223	15.7	61.9	291
LUGN30150MNEPR1623	150	190	151	32	56	240	8-M20	22.5	35	223	17	102	291
LUGN30200MNEPR1623	200	220	183	35	60	295	12-M20	15	48	358	19	192	465

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – w/Pin – EN 1092-2

Dimensions

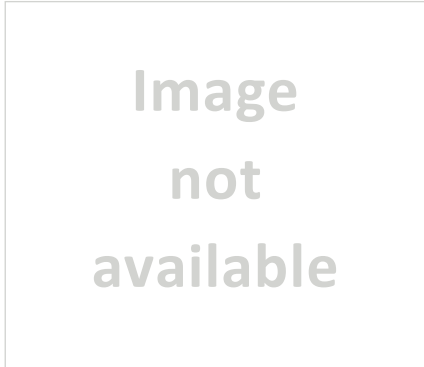


Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass
4	Seat	Replaceable EPDM
5	Pin	Stainless Steel SS 316
6	Disc	Ductile Iron
7	Body	Ductile Iron
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – w/Pin – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: RAL 5015 (*thickness 250 micron*)
- USP: Center service
- Standard: Standard acc. to BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (*series 20*)
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Product Information

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2	N-M	a-b**	C*	F*	ØV-V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
LUGN30065MDVEPR1623	65	140	94	-	46	145	4-M16	45	65	154	135	10.8	17.2	86	200	24:1	6
LUGN30080MDVEPR1623	80	145	105	-	46	160	8-M16	22.5	65	154	135	11.4	23.1	86	200	24:1	6
LUGN30100MDVEPR1623	100	160	126	-	52	180	8-M16	22.5	65	154	135	15	39.8	169	200	24:1	6
LUGN30125MDVEPR1623	125	170	140	-	56	210	8-M16	22.5	65	154	135	19.3	61.9	291	200	24:1	6
LUGN30150MDVEPR1623	150	190	151	-	56	240	8-M16	22.5	65	154	135	19	102	291	200	24:1	6
LUGN30200MDVEPR1623	200	220	183	-	60	295	12-M20	22.5	77	225	285	27.5	192	465	500	32:1	8
LUGN30250MDVEPR1623	250	260	217	-	68	355	12-M24	15	77	225	285	45.5	323	993	500	32:1	8
LUGN30300MDVEPR1623	300	290	252	-	78	410	12-M24	15	80	215	285	61.7	490	1360	1200	50:1	12.5
LUGN30350MDVEPR1623	350	320	285	-	78	470	16-M24	11.25	80	215	285	67.5	625	1360	1200	50:1	12.5
LUGN30400MDVEPR1623	400	356	315	271	102	525	16-M27	11.25	121	256	285	102	846	2356	2.5x103	560:1	140
LUGN30450MDVEPR1623	450	387	384	271	114	585	20-M27	9	121	256	285	153	1131	3394	2.5x103	560:1	140
LUGN30500MDVEPR1623	500	424	390	271	127	650	20-M30	9	121	256	285	208	1431	4120	2.5x103	560:1	140
LUGN30600MDVEPR1623	600	524	455	330	154	770	20-M33	9	130	285	385	320	2301	6781	4x103	506:1	140
LUGN30700MDVEPR1623	700	600	530	378	165	840	24-M33	7.5	149	377	425	431	4253	10961	8x103	704:1	176
LUGN30750MDVEPR1623	750	660	539	378	167	900	24-M36	7.58	149	377	425	476	4980	10961	8x103	704:1	176
LUGN30800MDVEPR1623	800	666	576	378	190	900	24-M36	7.5	149	377	425	568	5600	10961	8x103	704:1	176

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

LUGN3_MDVEPR_1623 09.2017

All data sheets are subject to changes without prior notice

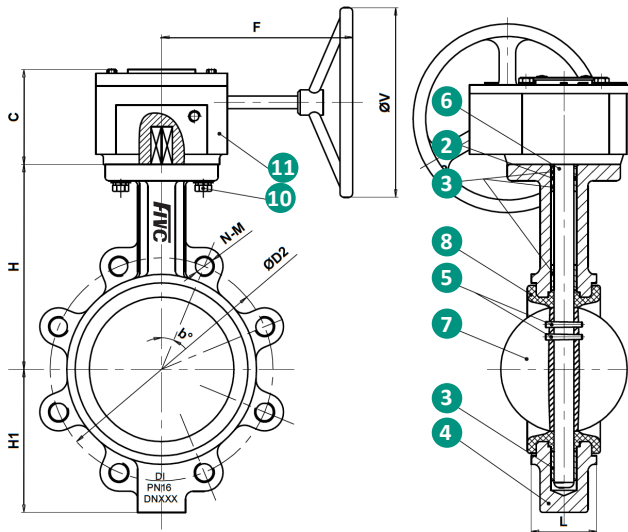
www.flowconivc.com

FIVC Butterfly Valve

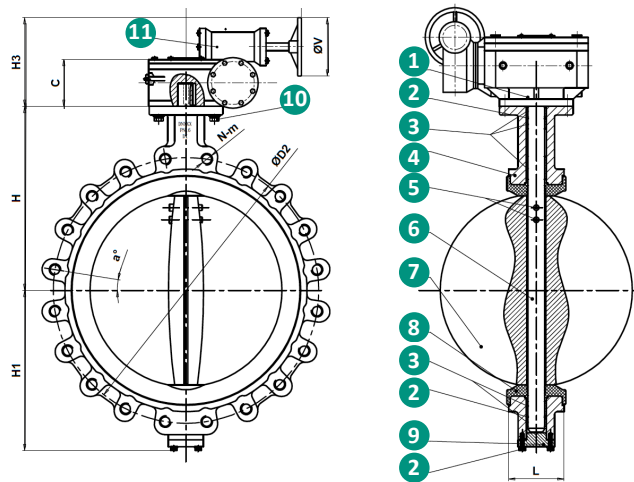
Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – w/Pin – EN 1092-2

Dimensions

DN 65-350



DN 400-800



Product Specification

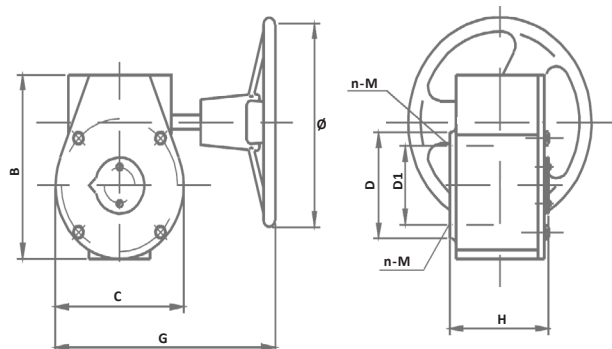
N°	Name	Material
1	Key Only for DN 600+	Carbon Steel
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron
5	Pin	Stainless Steel SS 316 DN 40-100: 1 pcs. DN 125+: 2 pcs.
6	Stem	Stainless Steel 431
7	Disc	Ductile Iron GGG 40
8	Seat	Replaceable EPDM
9	Cover	Ductile Iron
10	Bolts and accessories	Stainless Steel 316
11	Gearbox	Ductile Iron GGG 40

Gearbox Dimensions

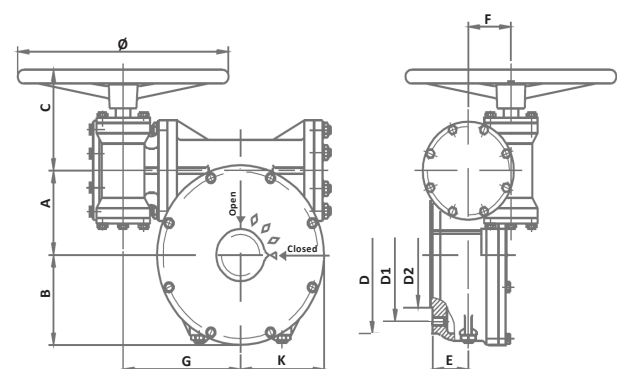
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350

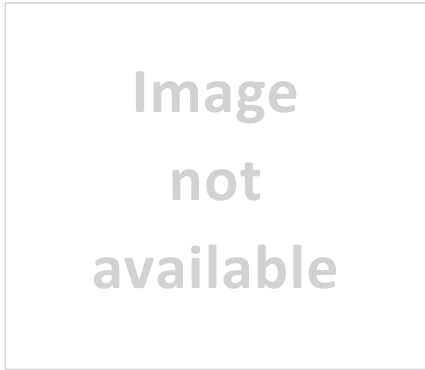


DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powdery products
- Fire fighting

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost.

Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

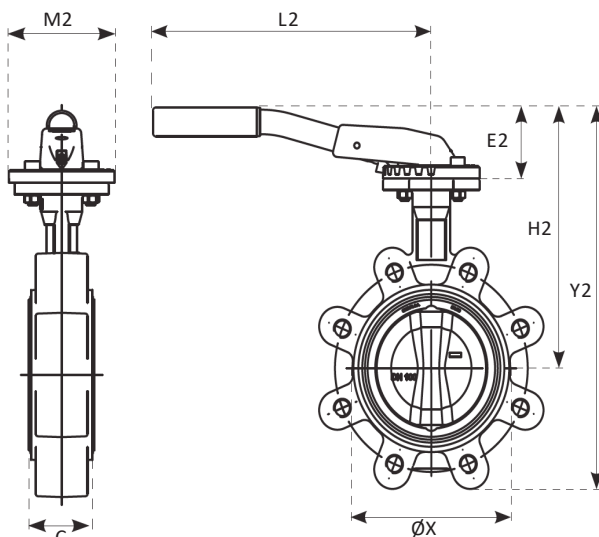
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 32+

Dimensions



Product Information

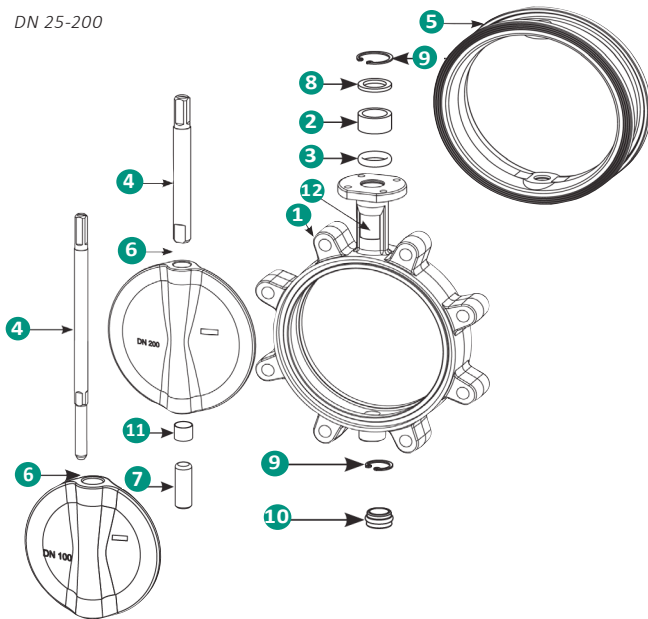
Product code	Size (DN)	C*	X*	E2*	H2*	Y2*	L2*	M2*	Kg
LUGN30025MNENR1603	25	33	68	49	151.5	202	220	90	2.2
LUGN30032MNENR1603	32	33	68	49	151.5	202	220	90	2.2
LUGN30040MNENR1603	40	33	76	49	159	213	220	90	2.4
LUGN30050MNENR1603	50	43	100	49	169	228.5	220	90	3.3
LUGN30065MNENR1603	65	46	108	49	184	250	220	90	3.7
LUGN30080MNENR1603	80	46	124	60	201	292	260	90	5.2
LUGN30100MNENR1603	100	52	147.3	60	225	330	260	90	6.9
LUGN30125MNENR1603	125	56	180	75	255	380	315	90	10.5
LUGN30150MNENR1603	150	56	206.5	75	268	404	315	90	11.2
LUGN30200MNENR1603	200	60	257	75	300	456	315	90	14.1

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – Pinless – EN 1092-2

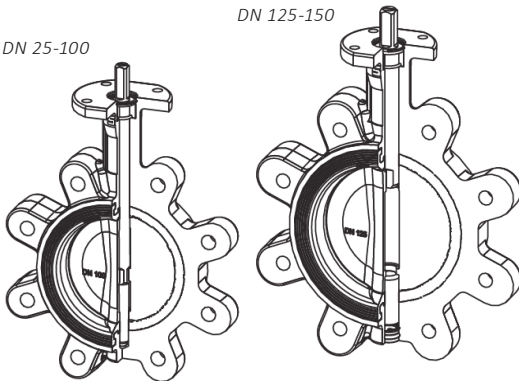
Product Specification

DN 25-200

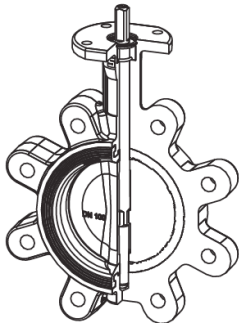


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron EN-GJS-400-15
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

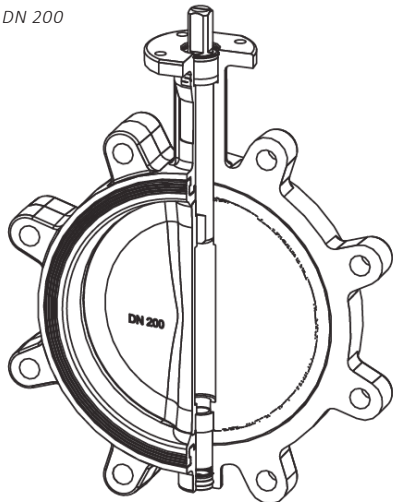
DN 125-150



DN 25-100



DN 200



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – Pinless – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1
(series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powdery products
- Fire fighting

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

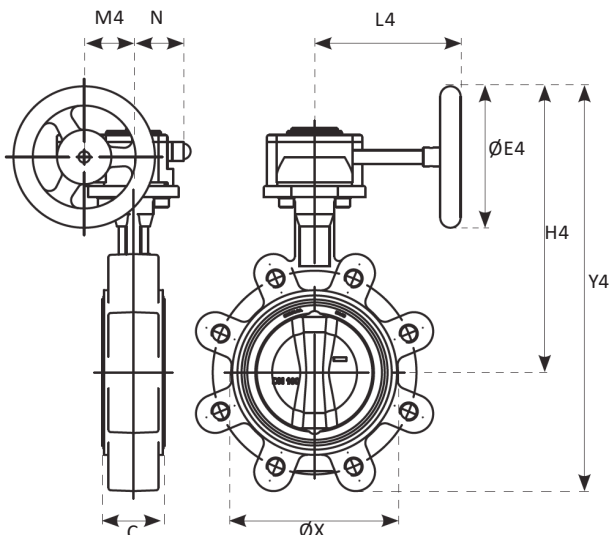
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch handlever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+

Dimensions



LUGN3_MDVENR_1603 11.2017

All data sheets are subject to changes without prior notice

Product Information

Product code	Size (DN)	C*	X*	E4*	H4*	Y4*	L4*	M4*	N*	Kg
LUGN30150MDVENR1603	150	56	206.5	160	298.5	435	135	43.5	50.5	12.0
LUGN30200MDVENR1603	200	60	257	200	355	527.5	152	52.5	59	16.1
LUGN30250MDVENR1603	250	68	324	250	442.5	652.5	222	61.2	70.5	30.1
LUGN30300MDVENR1603	300	78	383	250	468	708	222	61.2	70.5	43.1
LUGN30350MDVENR1603	350	78	437	250	498.5	761.5	222	61.2	70.5	59.5
LUGN30400MDVENR1603	400	102	486	300	572.5	880.5	278	68.8	72.5	83.7
LUGN30450MDVENR1603	450	114	538	400	630.5	970.5	321	96.5	91.5	120
LUGN30500MDVENR1603	500	127	613	400	682.5	1063	321	96.5	91.5	173
LUGN30600MDVENR1603	600	154	690	500	798.5	1239	408	137.5	140	250
LUGN30700MDVENR1603	700	165	832	600	944.5	1435	424	137.5	140	322
LUGN30750MDVENR1603	750	190	836	600	944.5	1475	456	137.5	140	411
LUGN30800MDVENR1603	800	190	902	600	984.5	1550	456	137.5	140	466
LUGN30900MDVENR1603	900	203	1010	700	1109	1719	510	180	156	591
LUGN31000MDVENR1603	1000	216	1116	700	1184	1859	579	180	156	747

*Dimensions are in millimeters

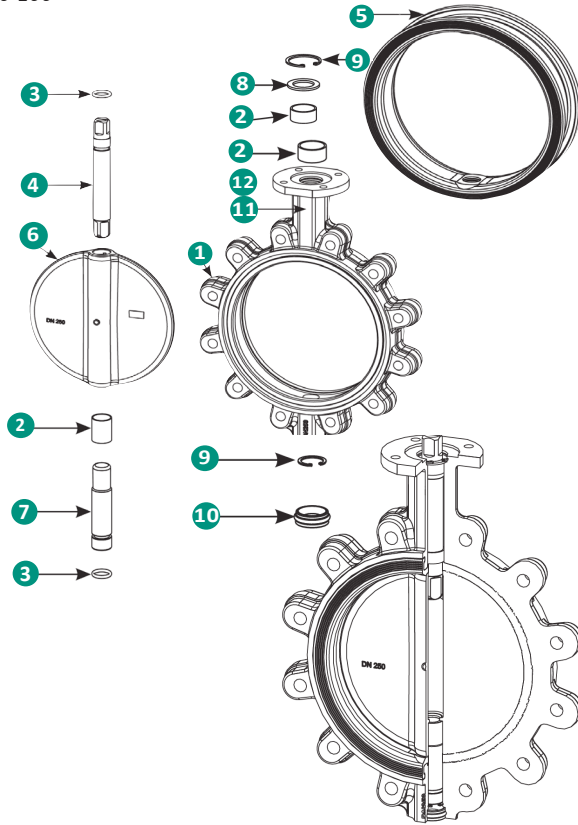
www.flowconivc.com

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – Pinless – EN 1092-2

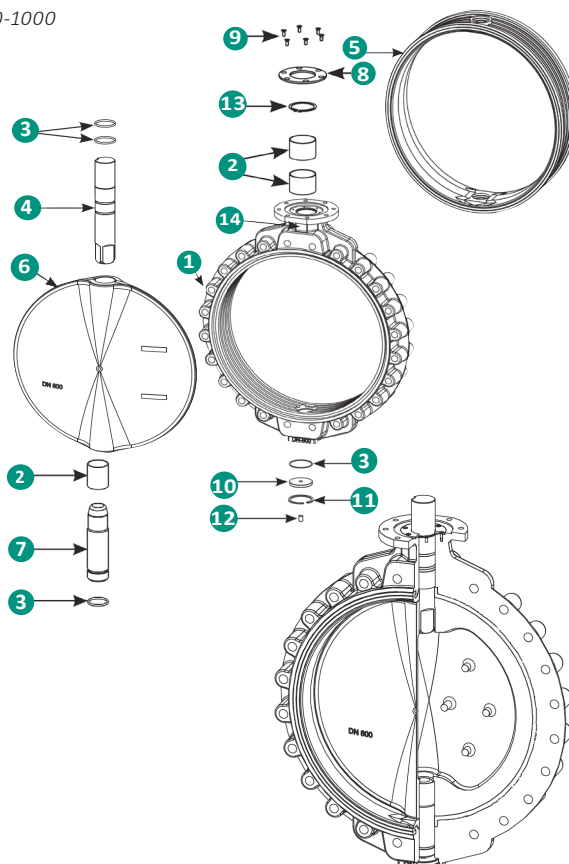
Product Specification

DN 150-200



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron EN-GJS-400-15
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 600-1000



FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: RAL 5015
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 25
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve is, with its vulcanized seat, designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Stainless Steel • Alu-Bronze 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other operations upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+

Product Information

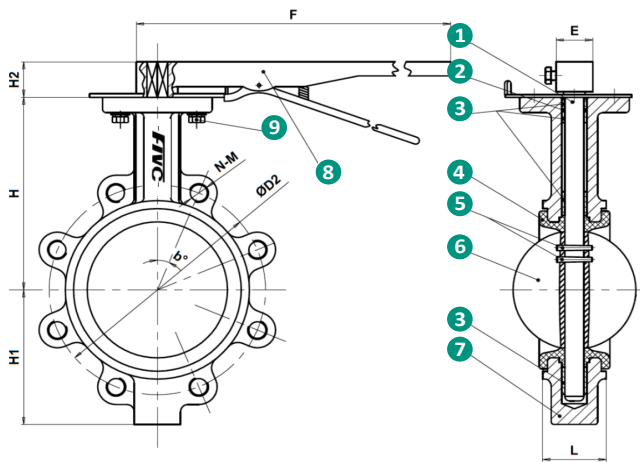
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M*	B°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
LUGN30040MNEPV2529	40	105	73	32	33	110	4-M16	45	35	223	5.2	23	86
LUGN30050MNEPV2529	50	130	85	32	33	125	4-M16	45	35	223	5.7	23	86
LUGN30065MNEPV2529	65	140	94	32	46	145	8-M16	22.5	35	223	7.5	26	86
LUGN30080MNEPV2529	80	145	105	32	46	160	8-M16	22.5	35	223	8	35	86
LUGN30100MNEPV2529	100	160	126	32	52	190	8-M20	22.5	35	223	12.3	60	169
LUGN30125MNEPV2529	125	170	140	32	56	220	8-M24	22.5	35	223	16.1	93	291
LUGN30150MNEPV2529	150	190	151	32	56	250	8-M24	22.5	35	223	18.6	153	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Pin	Stainless Steel SS 316
6	Disc	Ductile Iron GGG 40
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 25
 - Shaft: SS AISI 431/630
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+

Product Information

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2*	N-M	a°-b°*	C*	F*	ØV-V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
LUGN30065MDVEPV2529	65	140	94	-	46	145	8-M16	22.5	65	154	135	11	26	86	200	24:1	6
LUGN30080MDVEPV2529	80	145	105	-	46	160	8-M16	22.5	65	154	135	11.6	35	86	200	24:1	6
LUGN30100MDVEPV2529	100	160	126	-	52	190	8-M20	22.5	65	154	135	15.3	60	169	200	24:1	6
LUGN30125MDVEPV2529	125	170	140	-	56	220	8-M24	22.5	65	154	135	19.8	93	291	200	24:1	6
LUGN30150MDVEPV2529	150	190	151	-	56	250	8-M24	22.5	65	154	135	20.5	153	291	200	24:1	6
LUGN30200MDVEPV2529	200	220	183	-	60	310	12-M24	15	77	225	285	33.1	288	992	500	32:1	8
LUGN30250MDVEPV2529	250	260	217	-	68	370	12-M27	15	77	225	285	56.5	485	1360	500	32:1	8
LUGN30300MDVEPV2529	300	290	252	-	78	430	16-M27	11.25	80	215	285	77.2	735	1563	1200	50:1	12.5
LUGN30350MDVEPV2529	350	320	285	-	78	490	16-M30	11.25	80	215	285	96.2	938	2356	1200	50:1	12.5
LUGN30400MDVEPV2530	400	356	325	271	102	550	16-M33	11.25	121	256	285	142.1	1269	3928	2.5x103	560:1	140
LUGN30450MDVEPV2530	450	387	384	271	114	600	20-M33	9	121	256	285	218.6	1697	5072	2.5x103	560:1	140
LUGN30500MDVEPV2530	500	424	392	271	127	600	20-M33	9	121	256	285	290.6	2147	6788	2.5x103	560:1	140
LUGN30600MDVEPV2530	600	524	455	330	154	770	20-M36	9	130	285	385	458.6	3452	10780	4x103	506:1	140
LUGN30700MDVEPV2530	700	600	530	378	165	875	24-M39	7.5	149	377	425	593.5	6380	14788	8x103	704:1	176
LUGN30750MDVEPV2530	750	660	539	378	167	-	-	-	149	377	425	661	7390	18188	8x103	704:1	176
LUGN30800MDVEPV2530	800	666	576	378	190	990	24-M45	7.5	149	377	425	799	8400	18188	8x103	704:1	176

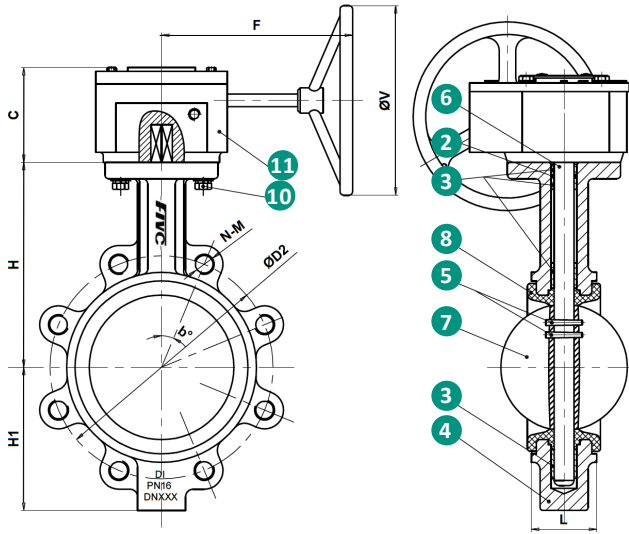
*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

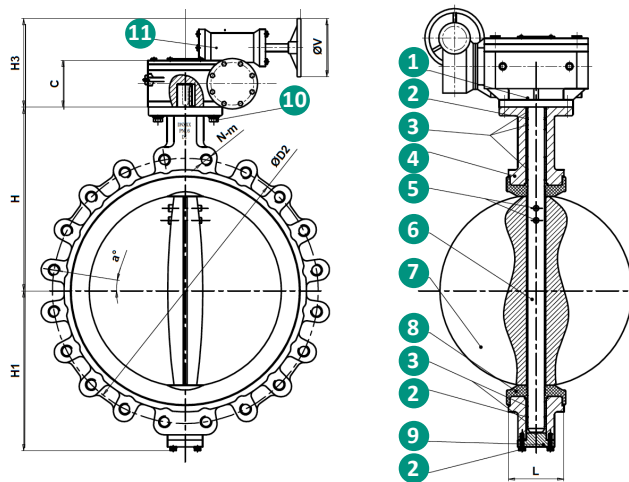
Ductile Iron – PN 25 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

DN 65-350



DN 400-800



Product Specification

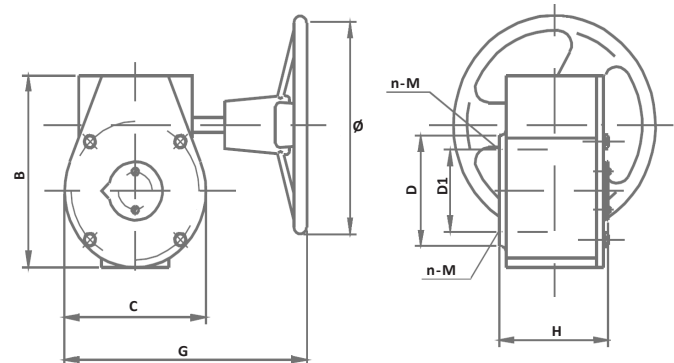
N°	Name	Material
1	Key <i>Only for DN 600+</i>	Carbon Steel
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron GGG 40
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+: 2 pcs.
6	Stem	DN 40-350: Stainless Steel 431 DN 400-800: Stainless Steel 630
7	Disc	Ductile Iron GGG 40
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron GGG 40
10	Bolts and Accessories	Stainless Steel 316
11	Gearbox	Ductile Iron

Gearbox Dimensions

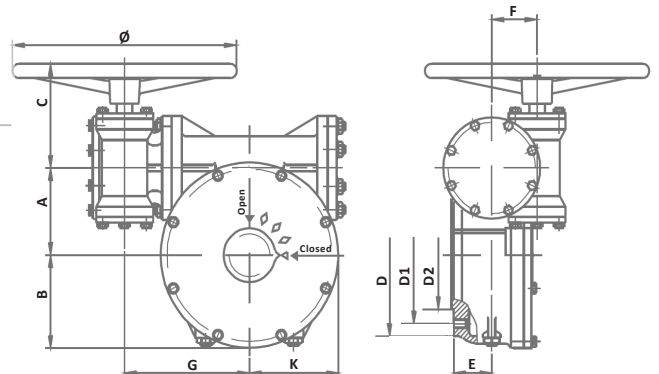
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M
65-150	-	125	102	92	70	-	65		203	135		-
200-250	-	167	141	125	102	-	79		295	285		-
300-350	-	188	152	125	102	-	80		291	285		-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350



DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Vulcanized – Pinless – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever - Malleable Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the construction ensures to good corrosion resistance.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+

Product Information

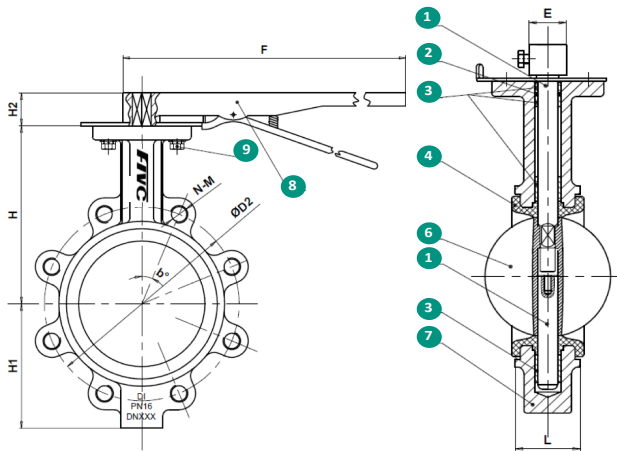
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2	N-M	b ^o *	E*	F*	Kg	OTV (N.m)	BTV (N.m)
LUGN50040MNENV1623	40	105	73	32	33	110	4-M16	45	35	223	5.1	15.1	86
LUGN50050MNENV1623	50	130	85	32	33	125	4-M16	45	35	223	5.6	16	86
LUGN50060MNENV1623	65	140	94	32	46	145	4-M16	45	35	223	7.3	17.2	86
LUGN50080MNENV1623	80	145	105	32	46	160	8-M16	22.5	35	223	7.8	23.1	86
LUGN50100MNENV1623	100	160	126	32	52	180	8-M16	22.5	35	223	12	39.8	169
LUGN50125MNENV1623	125	170	140	32	56	210	8-M16	22.5	35	223	15.7	61.9	291
LUGN50150MNENV1623	150	190	151	32	56	240	8-M20	22.5	35	223	17	102	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Vulcanized – Pinless – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
6	Disc	Stainless Steel CF8M
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever - Malleable Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Product Information

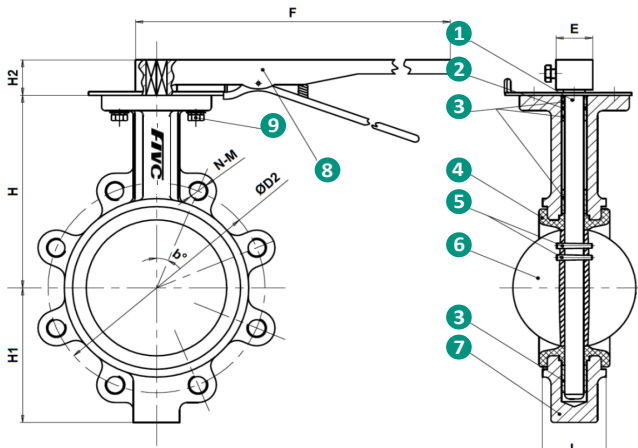
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M	b ^o *	E*	F*	Kg	OTV (N.m)	BTV (N.m)
LUGN50040MNEPV1623	40	105	73	32	33	110	4-M16	45	35	223	5.1	15.1	86
LUGN50050MNEPV1623	50	130	85	32	33	125	4-M16	45	35	223	5.6	16	86
LUGN50065MNEPV1623	65	140	94	32	46	145	4-M16	45	35	223	7.3	17.2	86
LUGN50080MNEPV1623	80	145	105	32	46	160	8-M16	22.5	35	223	7.8	23.1	86
LUGN50100MNEPV1623	100	160	126	32	52	180	8-M16	22.5	35	263	12	39.8	169
LUGN50125MNEPV1623	125	170	140	32	56	210	8-M16	22.5	35	263	15.7	61.9	291
LUGN50150MNEPV1623	150	190	151	32	56	240	8-M20	22.5	35	263	17	102	291
LUGN50200MNEPV1623	200	220	183	35	60	295	12-M20	15	48	358	19	192	465

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass
4	Seat	EPDM - Vulcanized
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+: 2 pcs.
6	Disc	Stainless Steel CF8M
7	Body	Ductile Iron
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service
- Standard: Standard acc. to BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Bronze-Alu • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable lever • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Product Information

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2	N-M	a°-b°*	C*	F*	ØV-V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
LUGN50065MDVEPV1623	65	140	94	-	46	145	4-M16	45	65	154	135	10.8	17.2	86	200	24:1	6
LUGN50080MDVEPV1623	80	145	105	-	46	160	8-M16	22.5	65	154	135	11.4	23.1	86	200	24:1	6
LUGN50100MDVEPV1623	100	160	126	-	52	180	8-M16	22.5	65	154	135	15	39.8	169	200	24:1	6
LUGN50125MDVEPV1623	125	170	140	-	56	210	8-M16	22.5	65	154	135	19.3	61.9	291	200	24:1	6
LUGN50150MDVEPV1623	150	190	151	-	56	240	8-M20	22.5	65	154	135	19	102	291	200	24:1	6
LUGN50200MDVEPV1623	200	220	183	-	60	295	12-M20	15	77	225	285	27.5	192	465	500	32:1	8
LUGN50250MDVEPV1623	250	260	217	-	68	355	12-M24	15	77	225	285	45.5	323	993	500	32:1	8
LUGN50300MDVEPV1623	300	290	252	-	78	410	12-M24	15	80	215	285	61.7	490	1360	1200	50:1	12.5
LUGN50350MDVEPV1623	350	320	285	-	78	470	16-M24	11.25	80	215	285	67.5	625	1360	1200	50:1	12.5
LUGN50400MDVEPV1623	400	356	315	271	102	525	16-M27	11.25	56	124	385	102	846	2356	2.5x103	560:1	140
LUGN50450MDVEPV1623	450	387	384	271	114	585	20-M27	9	56	124	385	208	1431	4120	2.5x103	560:1	140
LUGN50500MDVEPV1623	500	424	390	271	127	650	20-M30	9	121	256	285	200	1421	4120	2.5x103	560:1	140
LUGN50600MDVEPV1623	600	524	455	330	154	770	20-M33	9	130	285	385	320	2301	6781	4x103	506:1	140
LUGN50700MDVEPV1623	700	600	530	378	165	840	24-M33	7.5	149	337	425	431	4253	10961	8x103	704:1	176
LUGN50750MDVEPV1623	750	660	539	378	167	900	24-M36	7.5	149	337	425	476	4980	10961	8x103	704:1	176
LUGN50800MDVEPV1623	800	666	576	378	190	950	24-M36	7.5	149	337	425	568	5600	10961	8x103	704:1	176

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

LUGN5_MDVEPV_1623 09.2017

All data sheets are subject to changes without prior notice

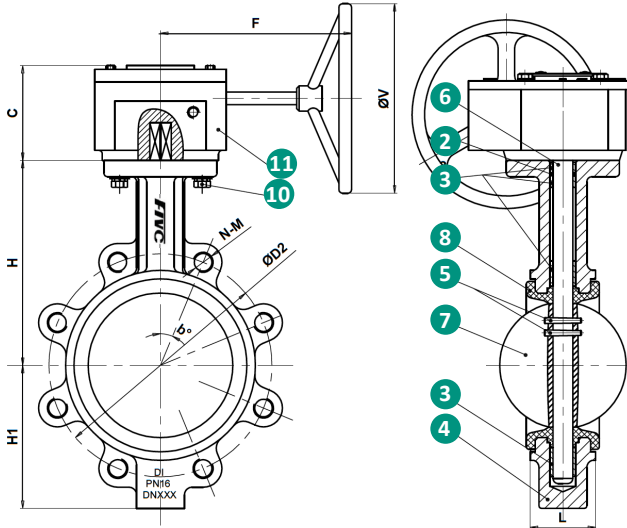
www.flowconivc.com

FIVC Butterfly Valve

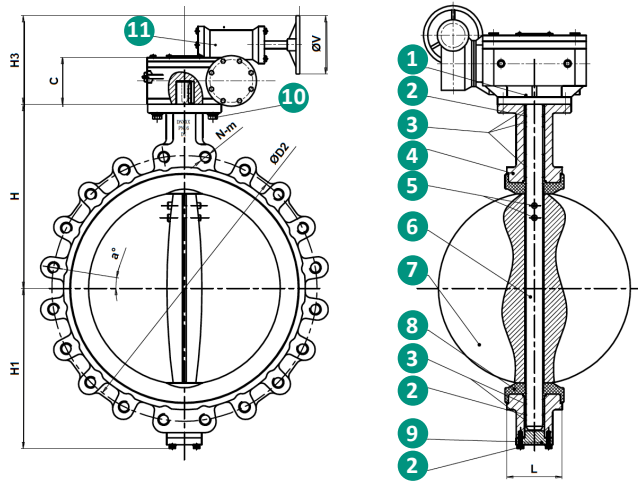
Ductile Iron – PN 16 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

DN 65-350



DN 400-800



Product Specification

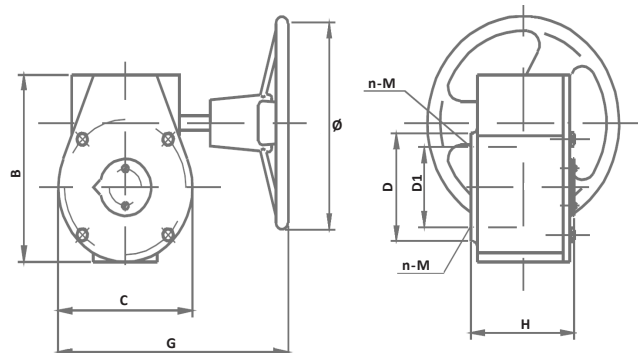
N°	Name	Material
1	Key Only for DN 600+	Carbon Steel
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron
5	Pin	Stainless Steel SS 316 DN 40-100: 1 pcs. DN 125+: 2 pcs.
6	Stem	Stainless Steel 431
7	Disc	Stainless Steel CF8M
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron
10	Bolts and accessories	Stainless Steel 316
11	Gearbox	Ductile Iron GGG 40

Gearbox Dimensions

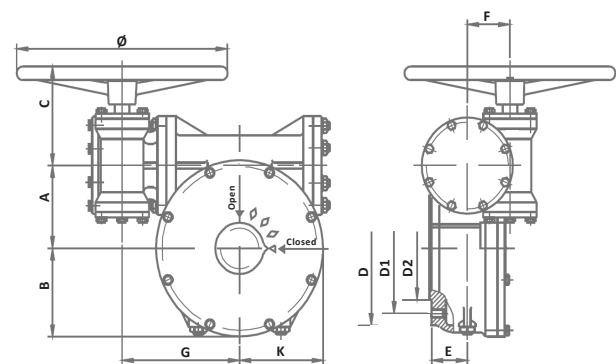
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø *	n-M
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

DN 65-350

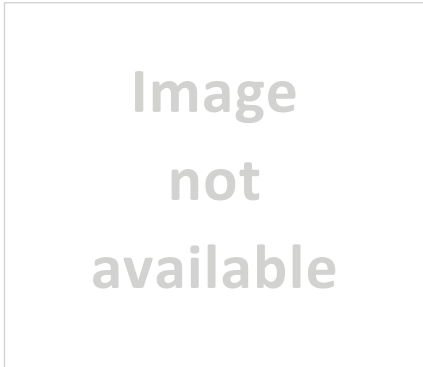


DN 400-800



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powdery products
- Fire fighting

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

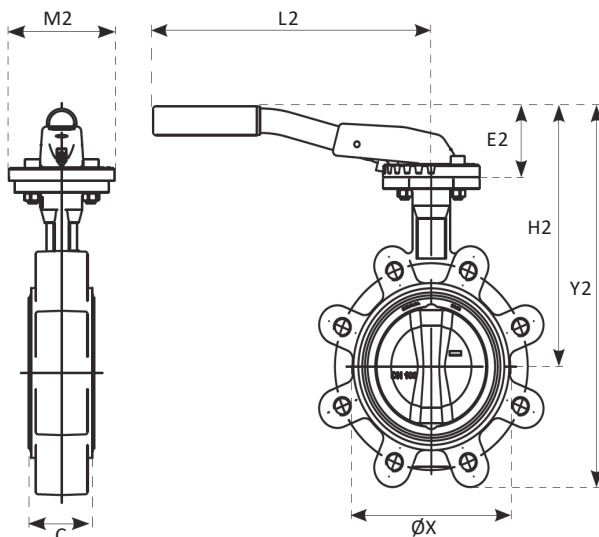
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron • Alu-Bronze 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 32+

Dimensions



Product Information

Product code	Size (DN)	C*	X*	E2*	H2*	Y2*	L2*	M2*	Kg
LUGN50025MNENR1603	25	33	68	49	151.5	202	220	90	2.2
LUGN50032MNENR1603	32	33	68	49	151.5	202	220	90	2.2
LUGN50040MNENR1603	40	33	76	49	159	213	220	90	2.4
LUGN50050MNENR1603	50	43	100	49	169	228.5	220	90	3.3
LUGN50065MNENR1603	65	46	108	49	184	250	220	90	3.7
LUGN50080MNENR1603	80	46	124	60	201	292	260	90	5.2
LUGN50100MNENR1603	100	52	147.3	60	225	330	260	90	6.9
LUGN50125MNENR1603	125	56	180	75	255	380	315	90	10.5
LUGN50150MNENR1603	150	56	206.5	75	268	404	315	90	11.2
LUGN50200MNENR1603	200	60	257	75	300	456	315	90	14.1

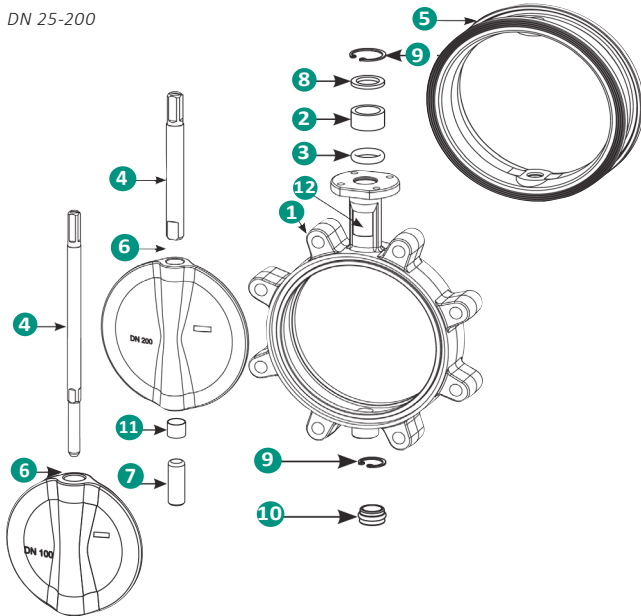
*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – Pinless – EN 1092-2

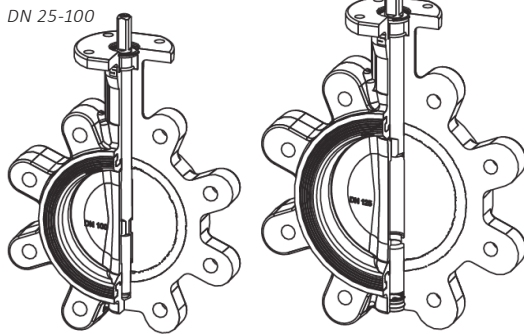
Product Specification

DN 25-200

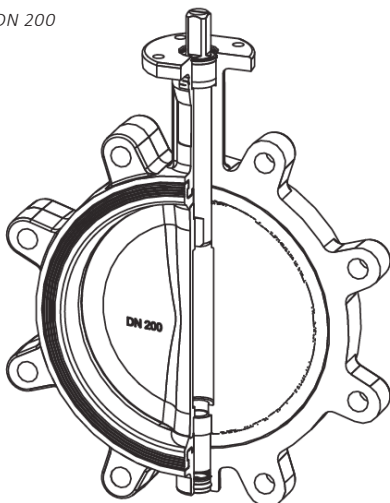


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel AISI 420
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 125-150

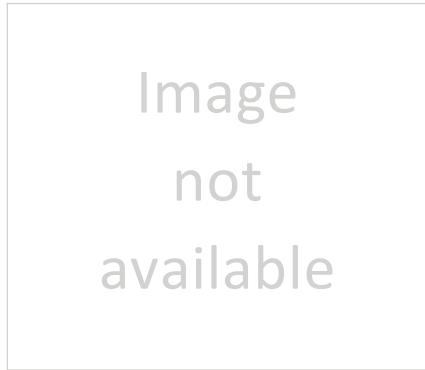


DN 200



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powdery products
- Fire fighting

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

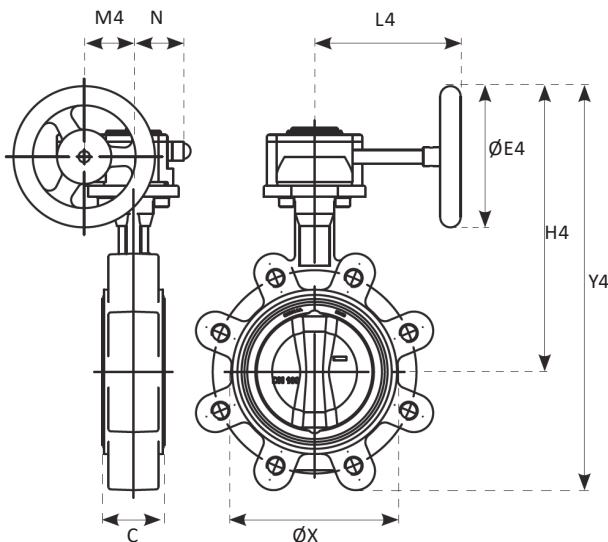
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron • Alu-Bronze 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch handlever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+

Dimensions



LUGN5_MDVENR_1603 11.2017

All data sheets are subject to changes without prior notice

Product Information

Product code	Size (DN)	C*	X*	E4*	H4*	Y4*	L4*	M4*	N*	Kg
LUGN50150MDVENR1603	150	56	206.5	160	298.5	435	135	43.5	50.5	12.0
LUGN50200MDVENR1603	200	60	257	200	355	527.5	152	52.5	59	16.1
LUGN50250MDVENR1603	250	68	324	250	442.5	652.5	222	61.2	70.5	30.1
LUGN50300MDVENR1603	300	78	383	250	468	708	222	61.2	70.5	43.1
LUGN50350MDVENR1603	350	78	437	250	498.5	761.5	222	61.2	70.5	59.5
LUGN50400MDVENR1603	400	102	486	300	572.5	880.5	278	68.8	72.5	83.7
LUGN50450MDVENR1603	450	114	538	400	630.5	970.5	321	96.5	91.5	120
LUGN50500MDVENR1603	500	127	613	400	682.5	1063	321	96.5	91.5	173
LUGN50600MDVENR1603	600	154	690	500	798.5	1239	408	137.5	140	250
LUGN50700MDVENR1603	700	165	832	600	944.5	1435	424	137.5	140	322
LUGN50750MDVENR1603	750	190	836	600	944.5	1475	456	137.5	140	411
LUGN50800MDVENR1603	800	190	902	600	984.5	1550	456	137.5	140	466
LUGN50900MDVENR1603	900	203	1010	700	1109	1719	510	180	156	591
LUGN51000MDVENR1603	1000	216	1116	700	1184	1859	579	180	156	747

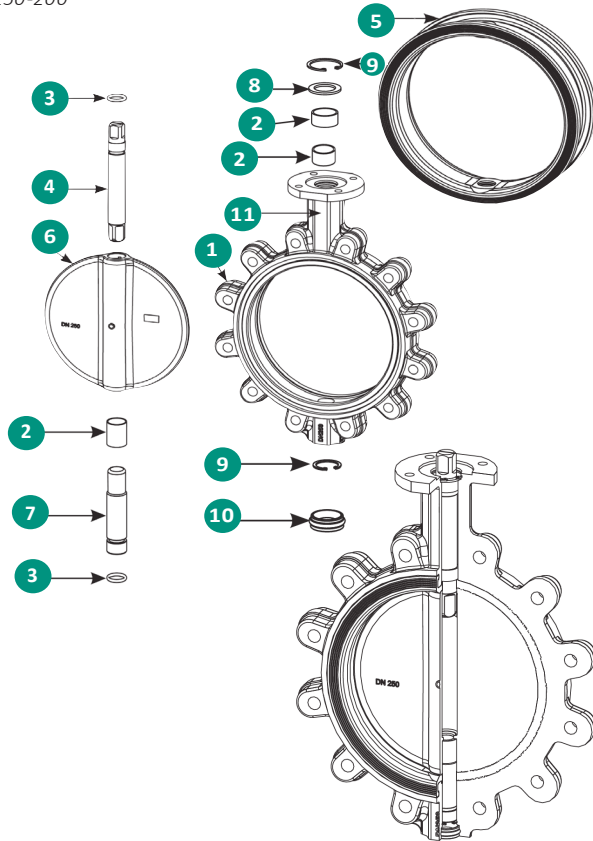
*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – Pinless – EN 1092-2

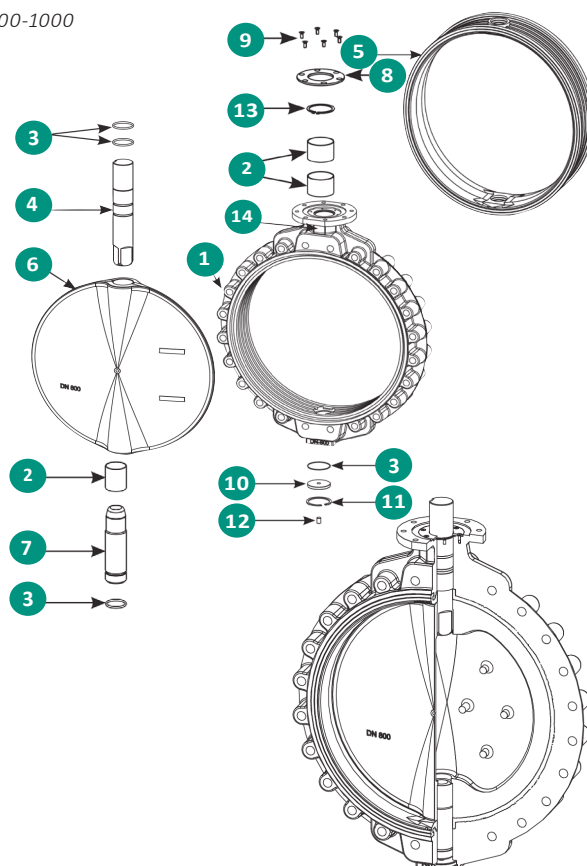
Product Specification

DN 150-200



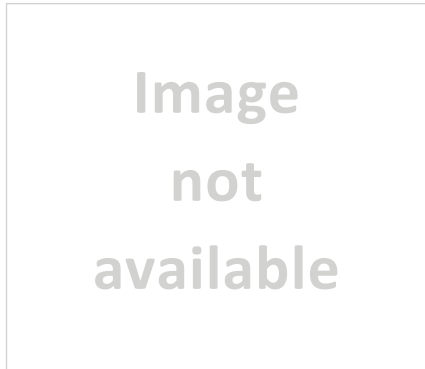
N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CF8M
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 600-1000



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – w/Pin – WRAS – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
 - Disc: Stainless Steel
 - Pin: Stainless Steel
 - Stem: Stainless Steel
 - Seat: Replaceable EPDM
 - Operation: 15° Notch hand lever in Malleable Iron
 - Coating: Epoxy
 - USP: Maintenance and installation efficient
- WRAS approval
- Standard: BS EN 593
 - Dimensions: BS EN 1092-2
 - Type:
 - Drilling: PN 16
 - Shaft: SS AISI 410
 - Thread: Metric

Field of applications

- Temperature range: -15 to 85 °C
 - Max. working pressure: 16 bar
- | | |
|--|--|
| <ul style="list-style-type: none"> • Water treatment plants and Water distribution • HVAC (Heat Ventilation Air Conditioning) • Fire fighting | <ul style="list-style-type: none"> • General services • Irrigation • Shipbuilding • Powdery products |
|--|--|

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

The valve can be used for water.

Declaration

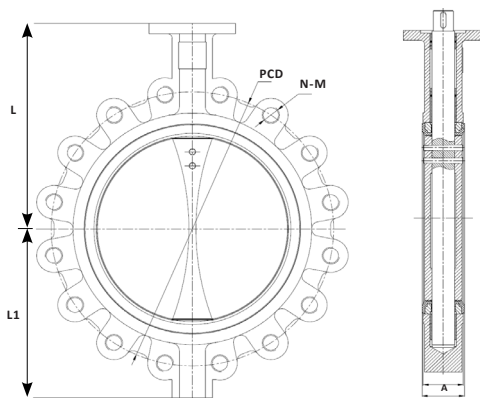
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Alternative Product Versions

Disc	Standard	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron 	<ul style="list-style-type: none"> • BS 5155 • ISO 5752 • MSS SP-67 • API 609 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 10 • PN 25 	<ul style="list-style-type: none"> • DN 50+

Dimensions



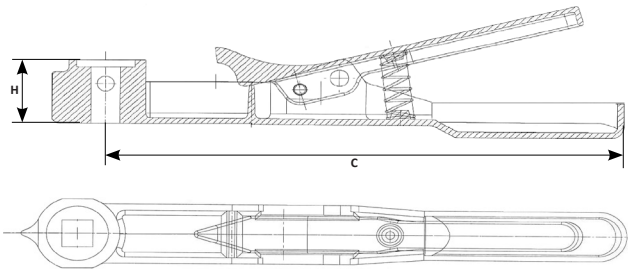
Product code	Size (DN)	L*	L1*	A*	B*	N-M	H	C
LUGN50065MNEPR1683	65	150.4	76	44.5	49.1	4-M16	27	195/266
LUGN50080MNEPR1683	80	156.4	98.6	44.5	49.1	8-M16	27	195/266
LUGN50100MNEPR1683	100	167.9	118.7	51	55.5	8-M16	27	266
LUGN50125MNEPR1683	125	186.5	129.4	54.5	58.8	8-M16	27	266
LUGN50150MNEPR1683	150	205.7	142	54.5	59.1	8-M20	27	328
LUGN50200MNEPR1683	200	230.6	176	59.6	64.1	12-M20	30	386

*Dimensions are in millimeters

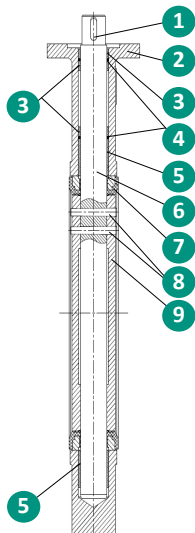
FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Hand lever – Replaceable – w/Pin – WRAS – EN 1092-2

Dimensions



Product Specification



N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Stainless Steel A351 CF8M
3	Shaft	Stainless Steel A276 SS 410
4	Seat	EPDM
5	O-Ring	EPDM
6	Bushing	Bronze B62 C83600
7	Pin	Stainless Steel BS970 316S11

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – w/Pin – WRAS – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
WRAS approval
- Standard: BS EN 593
- Dimensions: BS EN 1092-2
- Type: Drilling: PN 16
Shaft: SS AISI 410
Thread: Metric

Field of applications

- Temperature range: -15 to 85 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- Fire fighting
- General services
- Irrigation
- Shipbuilding
- Powdery products

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions. Furthermore, the valve can by the high-quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

The valve can be used for water.

Declaration

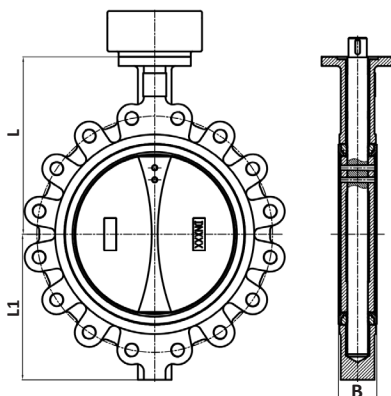
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.



Alternative Product Versions

Disc	Standard	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron 	<ul style="list-style-type: none"> • BS 5155 • ISO 5752 • MSS SP-67 • API 609 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch operation and lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 10 • PN 25 	<ul style="list-style-type: none"> • DN 50+

Dimensions



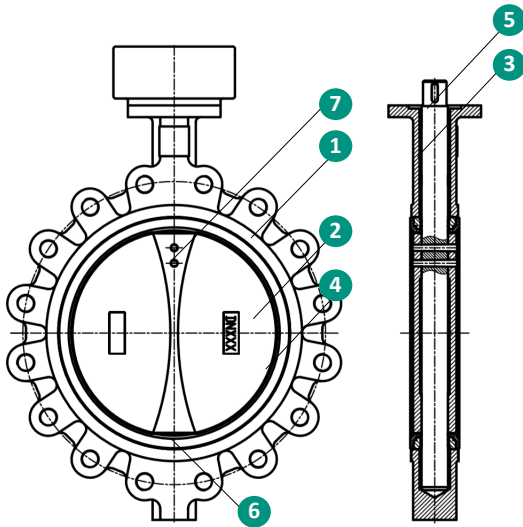
Product code	Size (DN)	L*	L1*	B*
LUGN50065MDVEPR1683	65	175	86	44.5
LUGN50080MDVEPR1683	80	181	94	44.5
LUGN50100MDVEPR1683	100	200	112.4	51
LUGN50125MDVEPR1683	125	213	130	54.5
LUGN50150MDVEPR1683	150	226	149.8	54.5
LUGN50200MDVEPR1683	200	260	190	59.6
LUGN50250MDVEPR1683	250	292	225	67
LUGN50300MDVEPR1683	300	337	255	75.5
LUGN50350MDVEPR1683	350	368	302	75.5
LUGN50400MDVEPR1683	400	400	354	102.
LUGN50450MDVEPR1683	450	422	385	114
LUGN50500MDVEPR1683	500	480	438	130
LUGN50600MDVEPR1683	600	562	464	151

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Gearbox – Replaceable – w/Pin – WRAS – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Body	Ductile Iron A536 Gr. 65-45-12
2	Disc	Stainless Steel A351 CF8M
3	Shaft	Stainless Steel A276 SS 410
4	Seat	EPDM
5	O-Ring	EPDM
6	Bushing	Bronze B62 C83600
7	Pin	Stainless Steel BS970 316S11

FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: 15° Notch hand lever in Malleable Iron
- Coating: RAL 5015
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 25
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve is with its vulcanized seat designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other operations upon request 	<ul style="list-style-type: none"> • Gearbox • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+

Product Information

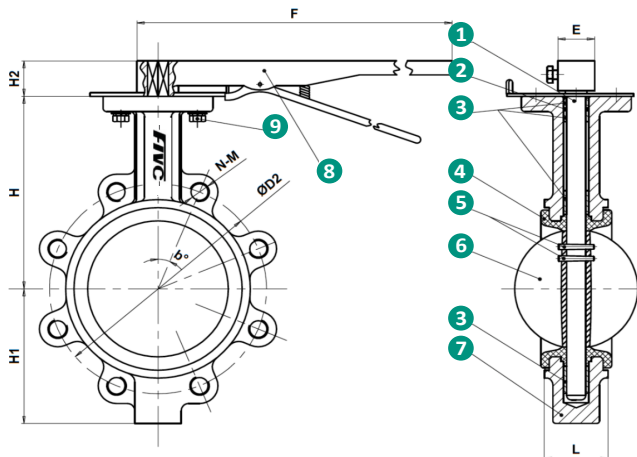
Product code	Size (DN)	H*	H1*	H2*	L*	ØD2*	N-M*	B°*	E*	F*	Kg	OTV (N.m)	BTV (N.m)
LUGN50040MNEPV2529	40	105	73	32	33	110	4-M16	45	35	223	5.2	23	86
LUGN50050MNEPV2529	50	130	85	32	33	125	4-M16	45	35	223	5.7	23	86
LUGN50065MNEPV2529	65	140	94	32	46	145	8-M16	22.5	35	223	7.5	26	86
LUGN50080MNEPV2529	80	145	105	32	46	160	8-M16	22.5	35	223	8	35	86
LUGN50100MNEPV2529	100	160	126	32	52	190	8-M20	22.5	35	223	12.3	60	169
LUGN50125MNEPV2529	125	170	140	32	56	220	8-M24	22.5	35	223	16.1	93	291
LUGN50150MNEPV2529	150	190	151	32	56	250	8-M24	22.5	35	223	18.6	153	291

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Hand lever – Vulcanized – w/Pin – EN 1092-2

Dimensions



Product Specification

N°	Name	Material
1	Stem	Stainless Steel SS 431
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Seat	Vulcanized EPDM
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+: 2 pcs.
6	Disc	Stainless Steel CF8M
7	Body	Ductile Iron GGG 40
8	Handle	Malleable Iron
9	Bolt	Stainless Steel SS 316

FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2



LUG series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service
- Standard: BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 25
 - Shaft: SS AISI 431/630
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Max. temperature: -15 to 120 °C
- Max. working pressure: 25 bar

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

Description

FIVC Lugged Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

The vulcanized seat ensures that the valve is both suitable for center service and end-of-line service. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 16 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 16 • PN 20 	<ul style="list-style-type: none"> • DN 40+

Product Information

Product code	Size (DN)	H*	H1*	H3*	L*	ØD2*	N-M	a°-b°*	C*	F*	ØV-V*	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
															OT N-M	Ratio	N° of turns
LUGN50065MDVEPV2529	65	140	94	-	46	145	8-M16	22.5	65	154	135	11	26	86	200	24:1	6
LUGN50080MDVEPV2529	80	145	105	-	46	160	8-M16	22.5	65	154	135	11.6	35	86	200	24:1	6
LUGN50100MDVEPV2529	100	160	126	-	52	190	8-M20	22.5	65	154	135	15.3	60	169	200	24:1	6
LUGN50125MDVEPV2529	125	170	140	-	56	220	8-M24	22.5	65	154	135	19.8	93	291	200	24:1	6
LUGN50150MDVEPV2529	150	190	151	-	56	250	8-M24	22.5	65	154	135	20.5	153	291	200	24:1	6
LUGN50200MDVEPV2529	200	220	183	-	60	310	12-M24	15	77	225	285	33.1	288	992	500	32:1	8
LUGN50250MDVEPV2529	250	260	217	-	68	370	12-M27	15	77	225	285	56.5	485	1360	500	32:1	8
LUGN50300MDVEPV2529	300	290	252	-	78	430	16-M27	11.25	80	215	285	77.2	735	1563	1200	50:1	12.5
LUGN50350MDVEPV2529	350	320	285	-	78	490	16-M30	11.25	80	215	285	96.2	938	2356	1200	50:1	12.5
LUGN50400MDVEPV2530	400	356	325	271	102	550	16-M33	11.25	121	256	285	142.1	1269	3928	2.5x103	560:1	140
LUGN50450MDVEPV2530	450	387	384	271	114	600	20-M33	9	121	256	285	218.6	1697	5072	2.5x103	560:1	140
LUGN50500MDVEPV2530	500	424	392	271	127	600	20-M33	9	121	256	285	290.6	2147	6788	2.5x103	560:1	140
LUGN50600MDVEPV2530	600	524	455	330	154	770	20-M36	9	130	285	385	458.6	3452	10780	4x103	506:1	140
LUGN50700MDVEPV2530	700	600	530	378	165	875	24-M39	7.5	149	377	425	593.5	6380	14788	8x103	704:1	176
LUGN50750MDVEPV2530	750	660	539	378	167	-	-	-	149	377	425	661	7390	18188	8x103	704:1	176
LUGN50800MDVEPV2530	800	666	576	378	190	990	24-M45	7.5	149	377	425	799	8400	18188	8x103	704:1	176

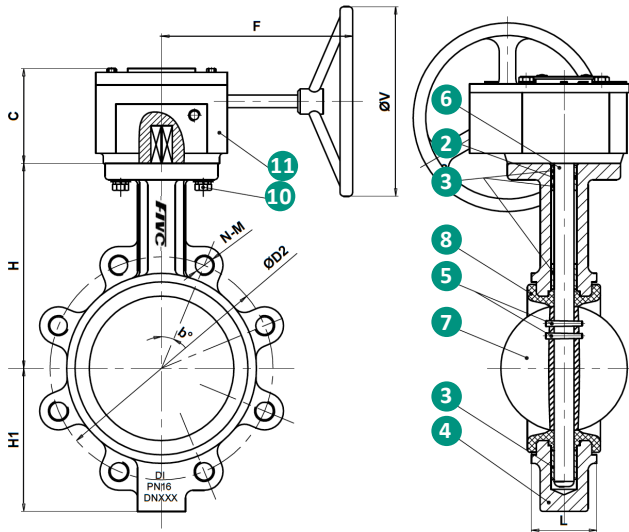
*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FIVC Butterfly Valve

Ductile Iron – PN 25 – Lugged – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

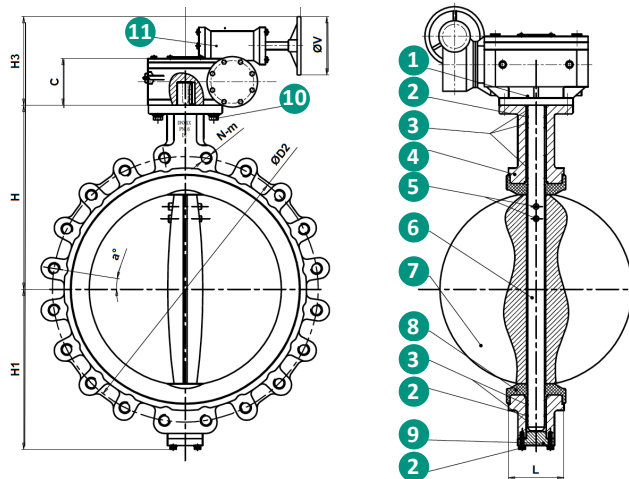
DN 65-350



Product Specification

N°	Name	Material
1	Key Only for DN 600+	Carbon Steel
2	O-Ring	NBR
3	Bushing	Brass C836600 + C37700
4	Body	Ductile Iron GGG 40
5	Pin	Stainless Steel SS 316 DN 65-100: 1 pcs. DN 125+: 2 pcs.
6	Stem	DN 40-350: Stainless Steel 431 DN 400-800: Stainless Steel 630
7	Disc	Stainless Steel CF8M
8	Seat	Vulcanized EPDM
9	Cover	Ductile Iron GGG 40
10	Bolts and Accessories	Stainless Steel 316
11	Gearbox	Ductile Iron

DN 400-800

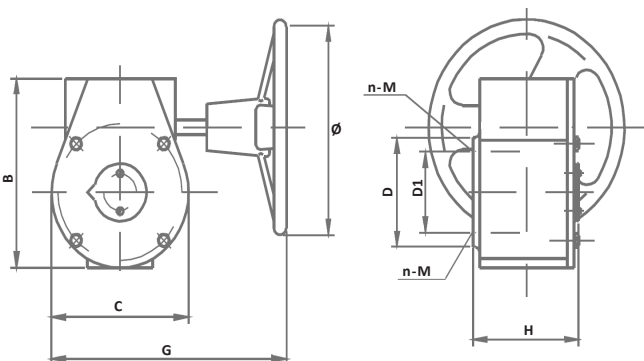


Gearbox Dimensions

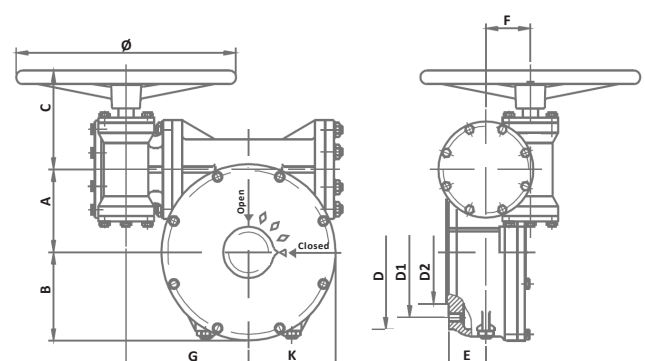
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Ø*	n-M
65-150	-	125	102	92	70	-	65	-	203	135	-	-
200-250	-	167	141	125	102	-	79	-	295	285	-	-
300-350	-	188	152	125	102	-	80	-	291	285	-	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

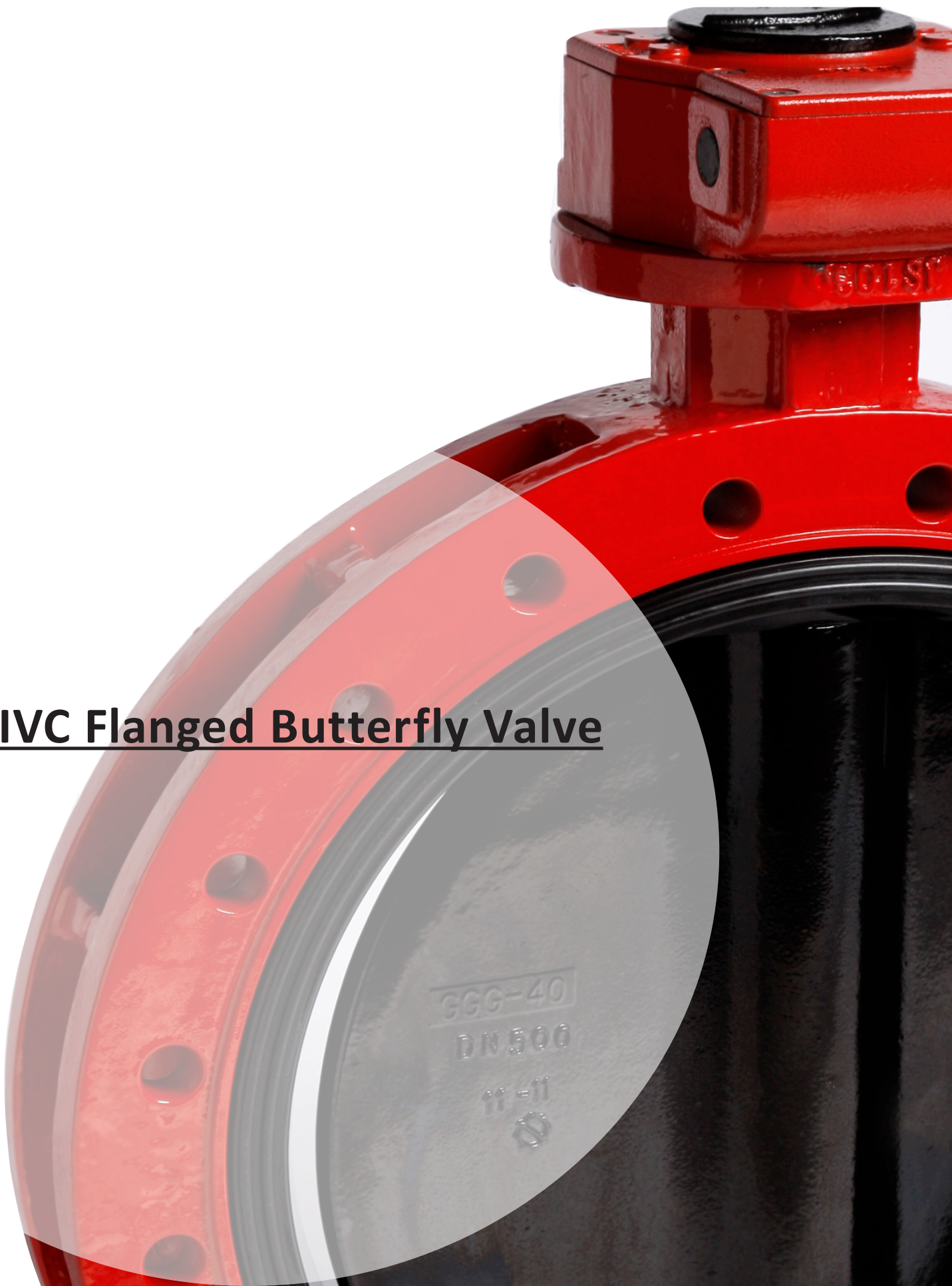
DN 65-350



DN 400-800

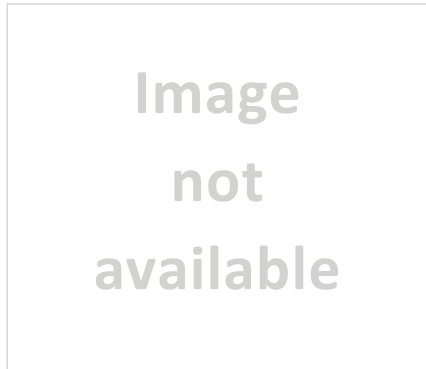


FIVC Flanged Butterfly Valve



FIVC Butterfly Valve

Ductile Iron – PN 16 – Double Flanged – Gearbox – Vulcanized – w/Pin – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Center service Double flanged
- Standard: Standard acc. to BS EN 593 (series 13)
- Type: Drilling: PN 16
Shaft: SS AISI 431
Thread: Metric
- Top flanges: ISO 5211

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

FLA series

Description

FIVC Double Flanged Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

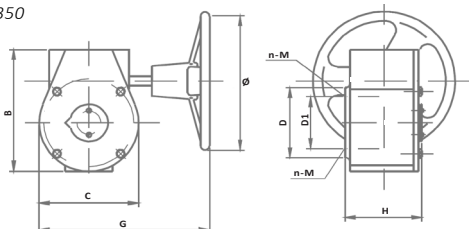
The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

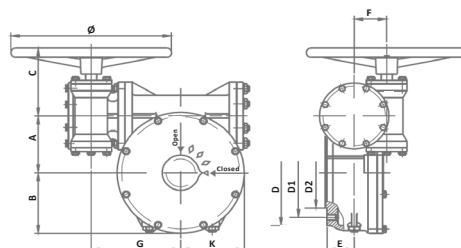
Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Ductile Iron 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Gearbox Dimensions

DN 65-350



DN 400-800



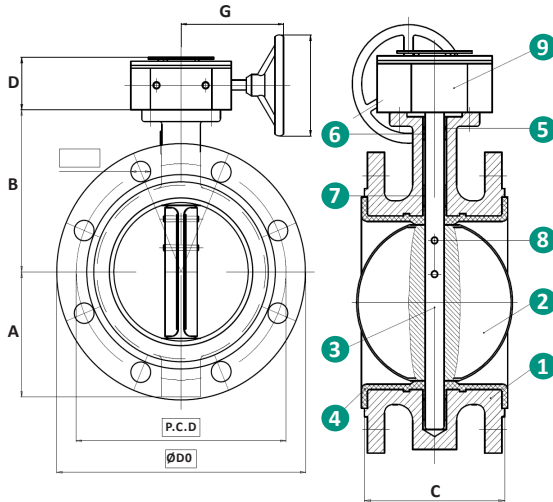
Valve size (DN)	A*	B*	C*	D*	D1*	D2*	E-H*	F*	G*	K*	Φ*	n-M*	Technical Information		
													OT N-M	Ratio	N° of turns
65-150	-	125	102	92	70	-	65	-	203	-	135	-	200	24:1	6
200-250	-	167	141	125	102	-	79	-	295	-	285	-	500	32:1	8
300-350	-	188	152	125	102	-	80	-	291	-	285	-	1200	50:1	12.5
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20	2.5x10 ³	560:1	140
600	125	131	172	276	165	-	65	66	192	131	385	4-M20	4x10 ³	506:1	140
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16	8x10 ³	704:1	176
900-1000	-	-	-	-	-	-	-	-	-	-	-	-	15x10 ³	680:1	170
1200	-	-	-	-	-	-	-	-	-	-	-	-	25x10 ³	850:1	212.5

FIVC Butterfly Valve

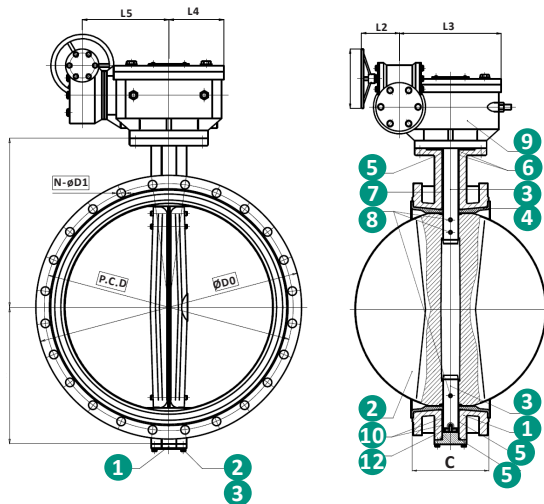
Ductile Iron – PN 16 – Double Flanged – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

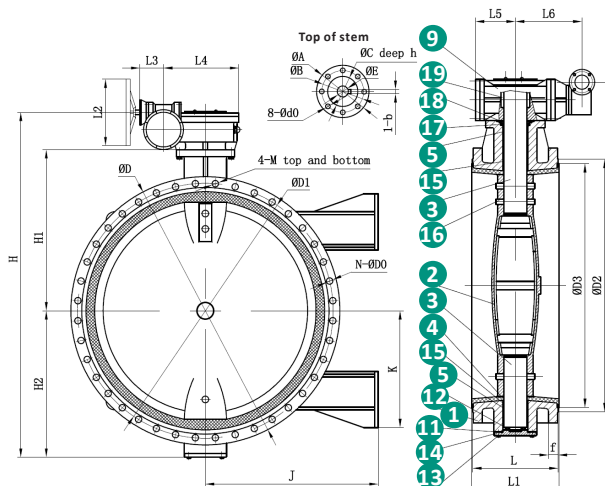
DN 50-350



DN 400-1200



DN 1400-1600



Product Information

DN 50-1200

Product code	Size (DN)	A*	B*	C*	D*	G*	Ø*	L2*	L3*	L4*	L5*	ØD0*	P.C.D*	NxØD*	Kg
FLAN50050MDVEPV1623	50	68	126	108	65	154	135	-	-	-	-	165	Ø125	4xØ19	-
FLAN50065MDVEPV1623	65	74	134	112	65	154	135	-	-	-	-	185	Ø145	4xØ19	-
FLAN50080MDVEPV1623	80	82	146	114	65	154	135	-	-	-	-	200	Ø160	8xØ19	-
FLAN50100MDVEPV1623	100	995	158	127	65	154	135	-	-	-	-	220	Ø180	8xØ19	-
FLAN50125MDVEPV1623	125	113	180	140	65	154	135	-	-	-	-	250	Ø210	8xØ19	-
FLAN50150MDVEPV1623	150	130	200	140	65	154	135	-	-	-	-	285	Ø240	8xØ23	-
FLAN50200MDVEPV1623	200	155	220	152	79	225	285	-	-	-	-	340	Ø295	8xØ23	-
FLAN50250MDVEPV1623	250	190	255	165	80	215	285	-	-	-	-	395	Ø350	12xØ23	-
FLAN50300MDVEPV1623	300	213	300	178	80	215	285	-	-	-	-	445	Ø400	12xØ23	-
FLAN50350MDVEPV1623	350	250	330	190	80	215	285	-	-	-	-	505	Ø460	16xØ23	-
FLAN50400MDVEPV1623	400	292	375	216	-	-	285	156	207	107	168	580	Ø525	16-Ø31	-
FLAN50450MDVEPV1623	450	307	405	222	-	-	285	156	207	107	168	640	Ø585	20-Ø31	-
FLAN50500MDVEPV1623	500	342	450	229	-	-	285	156	207	107	168	715	Ø650	20-Ø34	-
FLAN50600MDVEPV1623	600	433	518	267	-	-	385	160	256	131	193	840	Ø770	20-Ø37	-
FLAN50700MDVEPV1623	700	450	560	292	-	-	425	197	335	173	244.5	910	Ø840	24-Ø37	-
FLAN50800MDVEPV1623	800	501	620	318	-	-	425	197	335	173	244.5	1025	Ø950	24-Ø41	-
FLAN50900MDVEPV1623	900	550	685	330	-	-	425	203	397	201	279	1125	Ø1050	28-Ø41	-
FLAN51000MDVEPV1623	1000	622	735	410	-	-	425	203	397	201	279	1255	Ø1170	28-Ø44	-
FLAN51200MDVEPV1623	1200	763	917	470	-	-	425	203	425	225	311	1485	Ø1390	32-Ø50	-

*Dimensions are in millimeters

DN 1400-2000

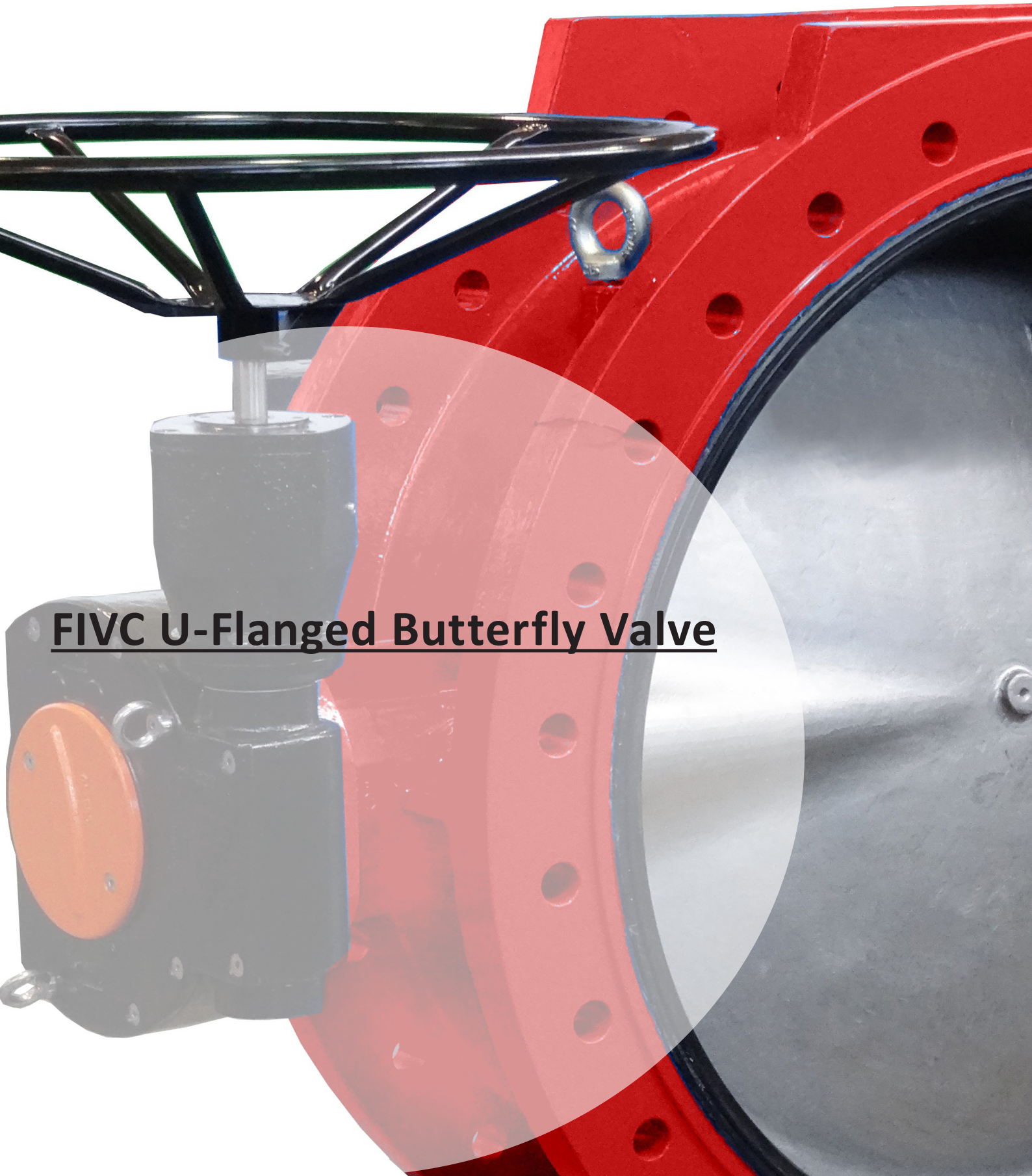
Product code	Size (DN)	ØD*	ØD1*	N-ØD0*	ØD2*	ØD3*	H*	H1*	H2*	L*	L1*	L2*	L3*	L4*	Kg
FLAN51400MDVEPV1623	1400	1685	1590	36-Ø48	1530	1500	2538	1000	985	530	540	510	258	553	-
FLAN51600MDVEPV1623	1600	1930	1820	40-Ø56	1750	1700	2921	1150	1045	600	610	510	237	726	-
FLAN51800MDVEPV1623	1800	2130	2020	44-Ø56	1914	1950	3176	1200	1156	670	680	510	237	820	-
FLAN52000MDVEPV1623	2000	2375	2230	48-Ø62	2130	2150	3725	1363	1350	760	770	510	265	-	-
Product code	Size (DN)	L5*	L6*	f*	J*	K*	Top of stem				2-b*	h*	-	Kg	
							ØA*	ØB*	ØC*	ØE*	8-Ød0*				
FLAN51400MDVEPV1623	1400	355	435	60	990	785	415	356	260	120	8-Ø32	2-32	6	-	-
FLAN51600MDVEPV1623	1600	425	450	65	1107	907	415	356	260	140	8-Ø32	2-36	6	-	-
FLAN51800MDVEPV1623	1800	475	466	70	1215	980	475	406	300	160	8-Ø40	2-40	9	-	-
FLAN52000MDVEPV1623	2000	630	725	75	1450	1090	475	406	300	160	8-Ø40	2-40	9	-	-

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Ductile Iron GGG40
2	Disc	Stainless Steel CF8M
3	Stem	Stainless Steel SS431
4	Seat	EPDM rubber
5	O-Ring	NBR rubber
6	Short bushing	DN 50-1200: Alu-Bronze DN 1400-1600: Composite Bronze
7	Long bushing	DN 50-1200: Alu-Bronze DN 1400-1600: Composite Bronze
8	Taper pin	Stainless Steel SS316
9	Gearbox	Assembly
10	Middle bushing	Copper Alloys AL-BC
11	Cover	Ductile Iron GGG40
12	Bearing	Steel
13	Boilt	DN 50-1200: Stainless Steel SS316 DN 1400-1600: Zinc-plated Steel/Stainless Steel
14	Spring washer	DN 50-1200: Stainless Steel SS316 DN 1400-1600: Zinc-plated Steel/Stainless Steel
15	Bushing	Composite Bronze
16	Pin	Stainless Steel SS304
17	Packing	NBR
18	Gland	Stainless Steel SS304
19	Key	Steel

FIVC U-Flanged Butterfly Valve



FIVC Butterfly Valve

Ductile Iron – PN 16 – U-Flanged – Gearbox – Replaceable – Pinless – EN 1092-2



FLA series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1
(series 20)
- Type: Drilling: ANSI 150
Shaft: SS AISI 420
Thread: UNC
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powderly products
- Fire fighting

Description

FIVC Flanged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

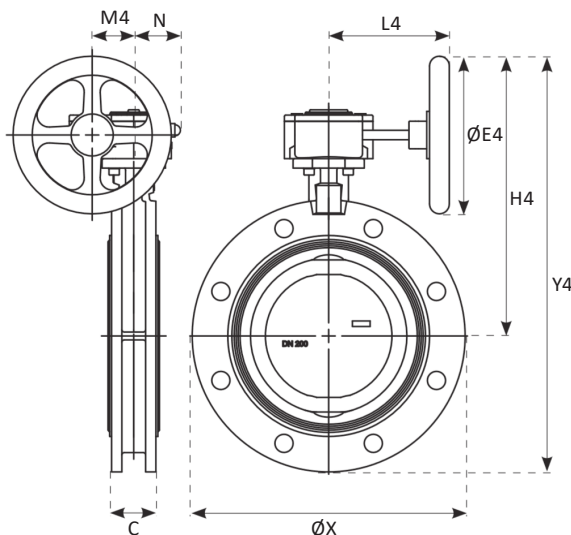
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Stainless Steel • Alu-Bronze 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch handlever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • Metric • Whitworth 	<ul style="list-style-type: none"> • PN 16 • PN 20 • PN 25 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+

Dimensions



FLANU3_MDVENR_1604 02.2018

All data sheets are subject to changes without prior notice

Product Information

Product code	Size (DN)	C*	X*	E4*	H4*	Y4*	L4*	M4*	N*	Kg
FLANU30200MDVENR1604	200	60	345	200	355	527	152	52.5	59	21.0
FLANU30250MDVENR1604	250	68	406	250	442.5	652.5	222	61.2	70.5	34.3
FLANU30300MDVENR1604	300	78	480	250	468	708	222	61.2	70.5	48.9
FLANU30350MDVENR1604	350	78	535	250	498.5	766.5	222	61.2	70.5	57.9
FLANU30400MDVENR1604	400	102	597	300	572.5	880.5	278	68.8	72.5	88.1
FLANU30450MDVENR1604	450	114	640	400	630.5	970.5	321	96.5	91.5	118
FLANU30500MDVENR1604	500	127	700	400	682.5	1063	321	96.5	91.5	153
FLANU30600MDVENR1604	600	154	834	500	798.5	1239	408	137.5	140	251
FLANU30700MDVENR1604	700	165	916	600	944.5	1435	424	137.5	140	309
FLANU30750MDVENR1604	750	190	995	600	944.5	1475	456	137.5	140	390
FLANU30800MDVENR1604	800	190	1060	600	984.5	1550	456	137.5	140	436
FLANU30900MDVENR1604	900	203	1170	700	1109	1719	510	180	156	572
FLANU31000MDVENR1604	1000	216	1290	700	1184	1859	579	180	156	771
FLANU31100MDVENR1604	1100	216	1405	700	1229	1962	579	180	156	925
FLANU31200MDVENR1604	1200	254	1485	700	1310	2128	593	252.5	228	1290
FLANU31400MDVENR1604	1400	280	1735	700	1435	2404	593	252.5	228	1852
FLANU31500MDVENR1604	1500	318	1855	700	1510	2560	593	252.5	228	2205
FLANU31600MDVENR1604	1600	318	1930	700	1550	2640	593	252.5	228	2328

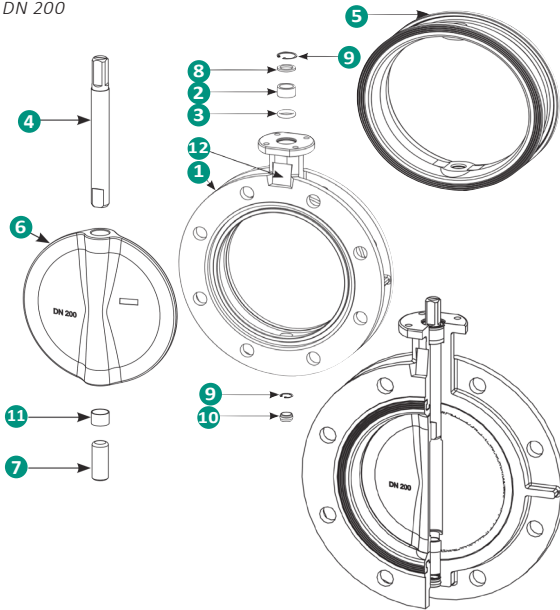
*Dimensions are in millimeters

FIVC Butterfly Valve

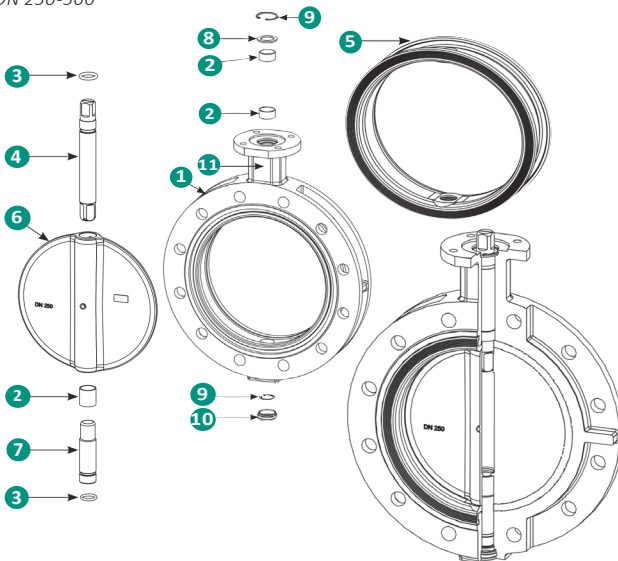
Ductile Iron – PN 16 – U-Flanged – Gearbox – Replaceable – Pinless – EN 1092-2

Product Specification

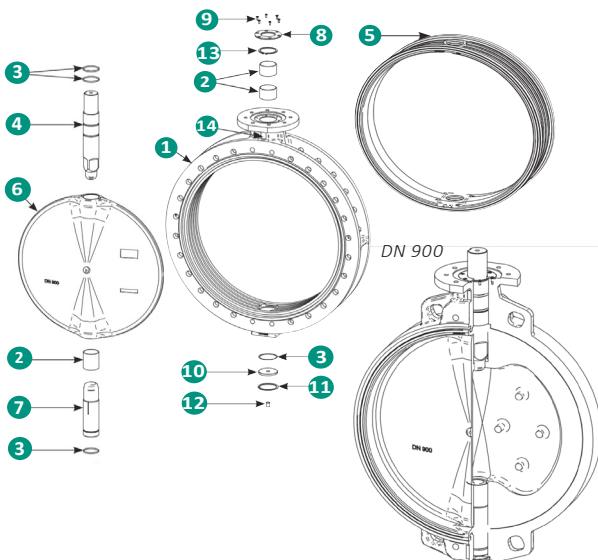
DN 200



DN 250-500



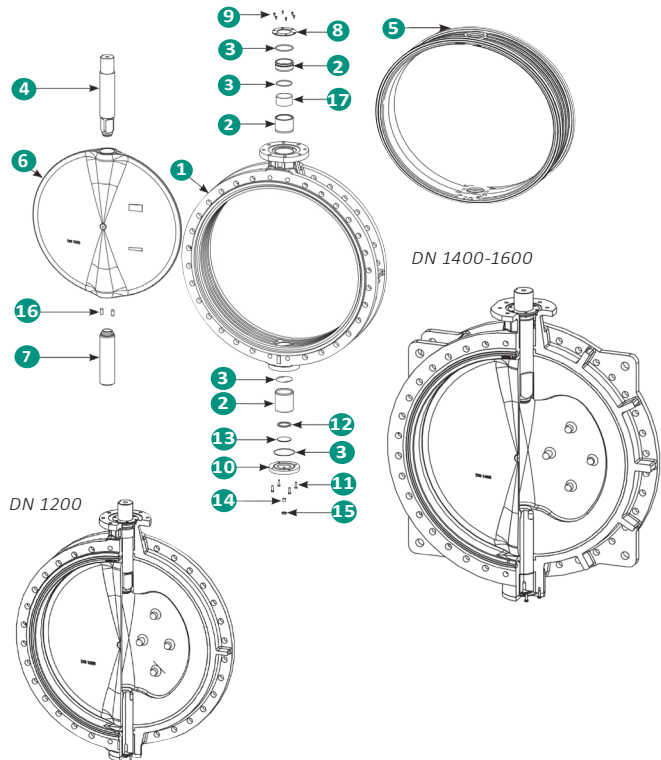
DN 600-1100



Product Specification

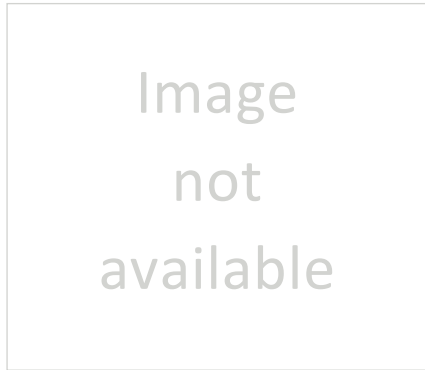
N°	Name	Material
1	Body	Ductile Iron GGG 40 + 120 microns Epoxy coating
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron GGG 40 + NiChr
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 1200-1600



FIVC Butterfly Valve

Ductile Iron – PN 16 – U-Flanged – Gearbox – Vulcanized – w/Pin – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Pin: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Gearbox in Ductile Iron
- Coating: RAL 5015 (thickness 250 micron)
- USP: Dead-end/center service U-Flanged
- Standard: Standard acc. to BS EN 593
- Dimensions: Face-to-Face acc. to BS EN 558 (series 20)
- Type:
 - Drilling: PN 16
 - Shaft: SS AISI 431
 - Thread: Metric
- Tests: Inspection test acc. to BS EN 12266-1

Field of applications

- Temperature range: -15 to 120 °C
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Steam applications
- Other various industries

FLA series

Description

FIVC Flanged Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Due to the integrated pin in the disc, the butterfly valve features much higher strength and can work in higher pressure conditions.

Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive No 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu-Bronze • Stainless Steel 	<ul style="list-style-type: none"> • Pinless 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch hand lever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • UNC • Whitworth 	<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 • PN 25 	<ul style="list-style-type: none"> • DN 40+

Product Information

Product code	Size (DN)	D*	H*	H1*	P.C.D*	N-m	a°	C*	L	V	L1	L2	L3	L4	L5	ØV	N-d0	Q	Kg	OTV (N.m)	BTV (N.m)	Gearbox		
																						OT N-M	Ratio	N° of turns
FLANU50150MDVEPV1623	150	-	226	139	Ø240	-	22.5°	65	56	-	-	-	154	-	-	135	-	-	23	102	291	200	24:1	6
FLANU50200MDVEPV1623	200	-	260	175	Ø295	-	15°	77	60	-	-	-	225	-	-	285	-	-	33	192	465	500	32:1	8
FLANU50250MDVEPV1623	250	-	292	203	Ø355	-	15°	77	68	-	-	-	225	-	-	285	-	-	55	323	993	500	32:1	8
FLANU50300MDVEPV1623	300	-	313	242	Ø410	-	15°	80	78	-	-	-	215	-	-	285	-	-	75	490	1360	1200	50:1	12.5
FLANU50350MDVEPV1623	350	-	368	263	Ø470	-	11.25°	80	78	-	-	-	215	-	-	285	-	-	85	625	1360	1200	50:1	12.5
FLANU50400MDVEPV1623	400	580	400	297	Ø525	4-M27	11.25°	-	102	190	107	100	156	168	107	285	12-Ø31	290	130	846	2356	2.5x10 ³	560:1	140
FLANU50450MDVEPV1623	450	640	422	315	Ø585	4-M27	9°	-	114	190	107	100	156	168	107	285	16-Ø31	320	200	1131	3394	2.5x10 ³	560:1	140
FLANU50500MDVEPV1623	500	715	480	380	Ø650	4-M30	9°	-	127	190	107	100	156	168	107	285	16-Ø34	335	260	1431	4120	2.5x10 ³	560:1	140
FLANU50600MDVEPV1623	600	840	562	444	Ø770	4-M33	9°	-	154	280	131	125	160	224	146	385	16-Ø37	420	400	2301	6781	4x10 ³	506:1	140
FLANU50700MDVEPV1623	700	910	560	450	Ø840	4-M33	7.5°	-	165	290	173	162	197	244	173	425	16-Ø37	455	500	4253	10961	8x10 ³	704:1	176
FLANU50750MDVEPV1623	750	995	660	559	Ø927	4-M30	7.5°	-	165	280	173	146	200	224	146	425	20-Ø37	497.5	485	4980	10961	8x10 ³	704:1	176
FLANU50800MDVEPV1623	800	1025	626	539	Ø950	4-M36	7.5°	-	190	350	173	162	197	244	173	425	24-Ø41	512.5	600	5600	10961	8x10 ³	704:1	176
FLANU50900MDVEPV1623	900	1125	720	656	Ø1050	4-M36	6.4°	-	203	380	201	196	203	280	201	425	24-Ø41	526.5	750	6834	18188	15x10 ³	680:1	170
FLANU51000MDVEPV1623	1000	1255	800	700	Ø1270	4-M39	5.6°	-	216	425	201	196	203	280	201	425	24-Ø42	627.5	950	11603	26477	15x10 ³	680:1	170
FLANU51200MDVEPV1623	1200	1485	938	869	Ø1390	4-M45	5.6°	-	276	500	185	240	210	310	255	425	28-Ø50	742.5	1300	16321	49909	25x10 ³	850:1	212.5

*Dimensions are in millimeters • OTV: Operation Torque Value • BTV: Breaking Torque Value

FLANU5_MDVEPV_1623 09.2017

All data sheets are subject to changes without prior notice

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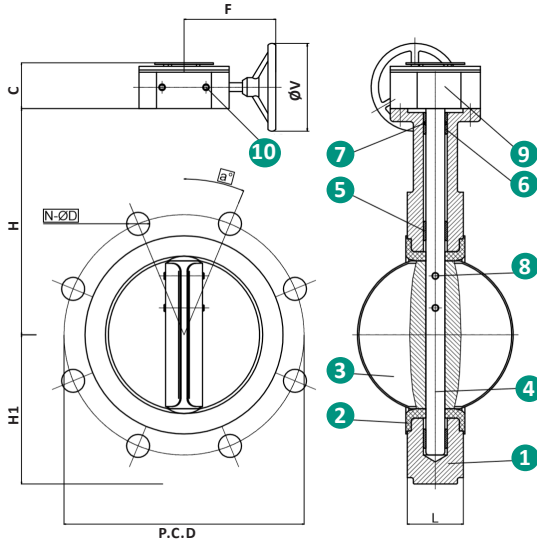
1 / 2

FIVC Butterfly Valve

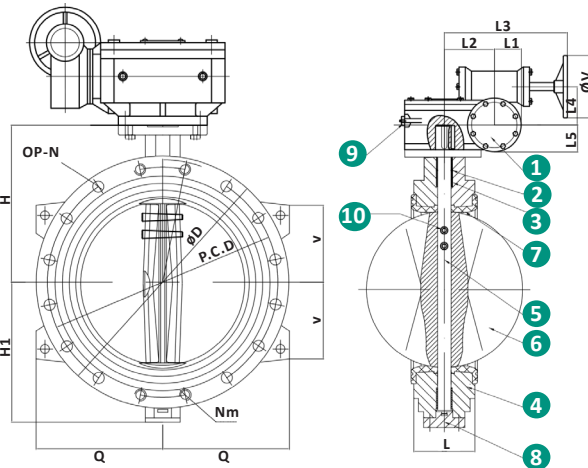
Ductile Iron – PN 16 – U-Flanged – Gearbox – Vulcanized – w/Pin – EN 1092-2

Dimensions

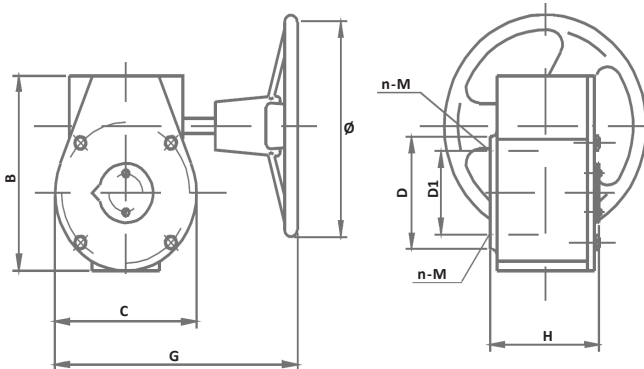
DN 150-350



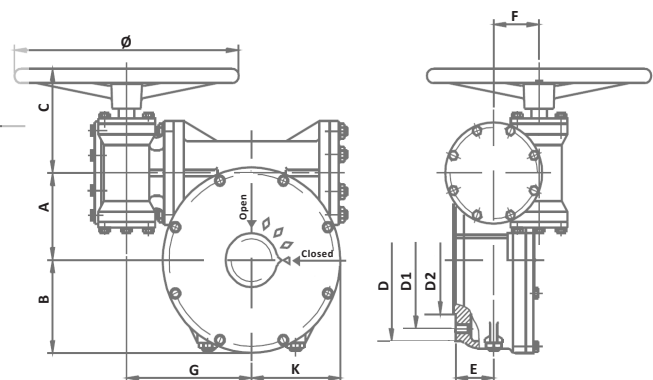
DN 400-1200



DN 65-350



DN 400-800



Product Specification

N°	Name	Material
1	Gearbox	Ductile Iron GGG 40
2	O-Ring	NBR rubber
3	Bushing	Copper
4	Body	Ductile Iron
5	Stem	Stainless Steel 431
6	Disc	Stainless Steel CF8M/C95400
7	Seat	EPDM Vulcanized
8	Cover	Ductile Iron GGG 40
9	Bolts and accessories	Stainless Steel 316
10	Pin	Stainless Steel 316

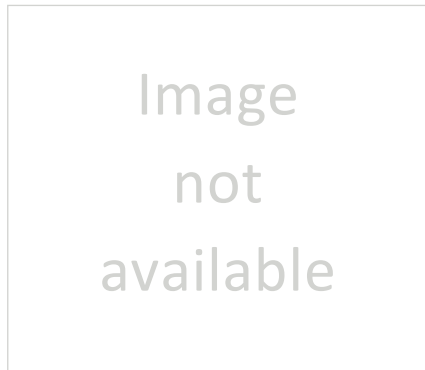
Gearbox Dimensions

Valve size (DN)	A*	B*	C*	D*	D1*	D2*	F*	G*	K*	Ø*	n-M	
65-150	-	125	102	92	70	-	65	-	203	-	135	-
200-250	-	167	141	125	102	-	79	-	295	-	285	-
300-350	-	188	152	125	102	-	80	-	291	-	285	-
400-500	100	107	162	175	140	100	67	60	170	107	285	4-M16/ 4-M20
600	125	131	172	276	165	-	65	66	192	131	385	4-M20
700-800	140	146	200	300	254	200	72	88	224	146	425	8-M16

*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – U-Flanged – Gearbox – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Gearbox in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1
(series 20)
- Type: Drilling: ANSI 150
Shaft: SS AISI 420
Thread: UNC
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding
- Powdery products
- Fire fighting

FLA series

Description

FIVC Flanged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality gearbox be closed and opened precisely because of the non-gap between the shaft and disc.

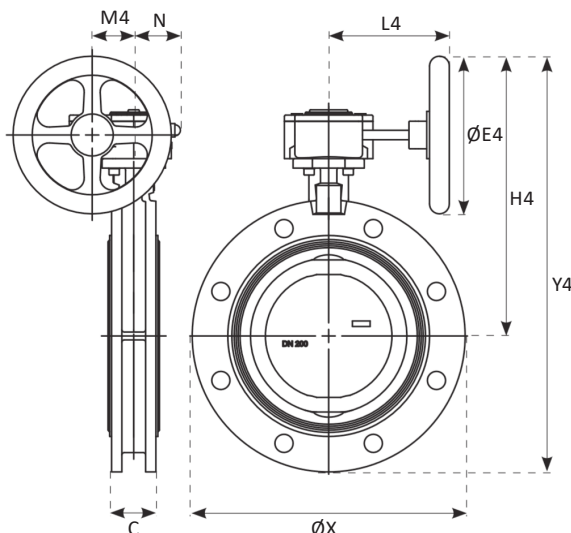
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Ductile Iron • Bronze-Alu 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° Notch handlever • Other operations upon request
Threading	Drilling	PN	Size
<ul style="list-style-type: none"> • Metric • Whitworth 	<ul style="list-style-type: none"> • PN 16 • PN 20 • PN 25 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+

Dimensions



FLANU5_MDVENR_1604 02.2018

All data sheets are subject to changes without prior notice

Product Information

Product code	Size (DN)	C*	X*	E4*	H4*	Y4*	L4*	M4*	N*	Kg
FLANU50200MDVENR1604	200	60	345	200	355	527	152	52.5	59	21.0
FLANU50250MDVENR1604	250	68	406	250	442.5	652.5	222	61.2	70.5	34.3
FLANU50300MDVENR1604	300	78	480	250	468	708	222	61.2	70.5	48.9
FLANU50350MDVENR1604	350	78	535	250	498.5	766.5	222	61.2	70.5	57.9
FLANU50400MDVENR1604	400	102	597	300	572.5	880.5	278	68.8	72.5	88.1
FLANU50450MDVENR1604	450	114	640	400	630.5	970.5	321	96.5	91.5	118
FLANU50500MDVENR1604	500	127	700	400	682.5	1063	321	96.5	91.5	153
FLANU50600MDVENR1604	600	154	834	500	798.5	1239	408	137.5	140	251
FLANU50700MDVENR1604	700	165	916	600	944.5	1435	424	137.5	140	309
FLANU50750MDVENR1604	750	190	995	600	944.5	1475	456	137.5	140	390
FLANU50800MDVENR1604	800	190	1060	600	984.5	1550	456	137.5	140	436
FLANU50900MDVENR1604	900	203	1170	700	1109	1719	510	180	156	572
FLANU51000MDVENR1604	1000	216	1290	700	1184	1859	579	180	156	771
FLANU51100MDVENR1604	1100	216	1405	700	1229	1962	579	180	156	925
FLANU51200MDVENR1604	1200	254	1485	700	1310	2128	593	252.5	228	1290
FLANU51400MDVENR1604	1400	280	1735	700	1435	2404	593	252.5	228	1852
FLANU51500MDVENR1604	1500	318	1855	700	1510	2560	593	252.5	228	2205
FLANU51600MDVENR1604	1600	318	1930	700	1550	2640	593	252.5	228	2328

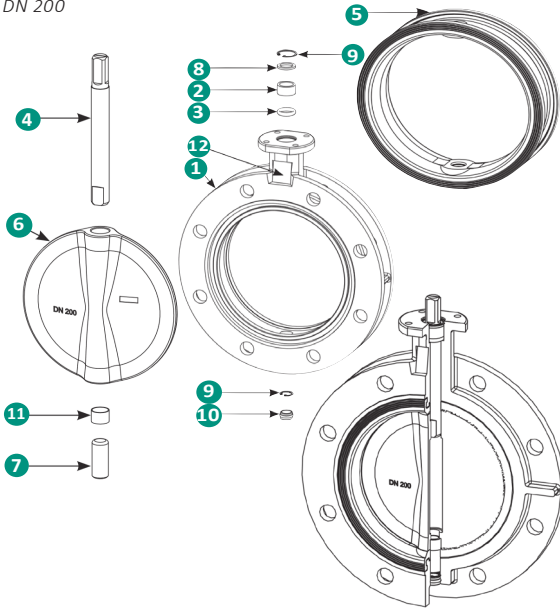
*Dimensions are in millimeters

FIVC Butterfly Valve

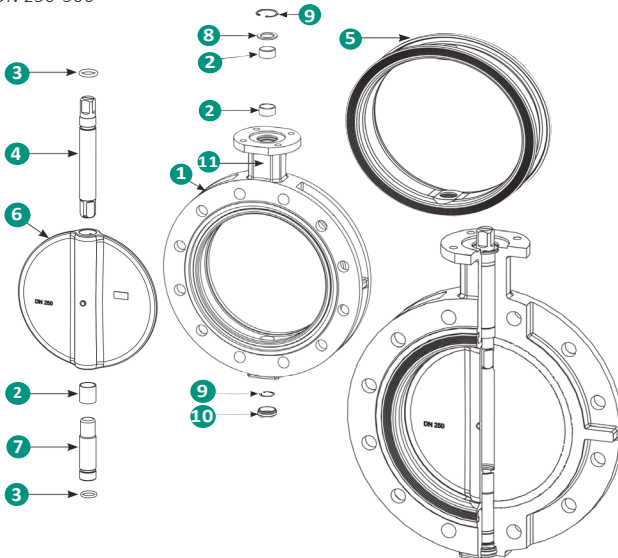
Ductile Iron – PN 16 – U-Flanged – Gearbox – Replaceable – Pinless – EN 1092-2

Product Specification

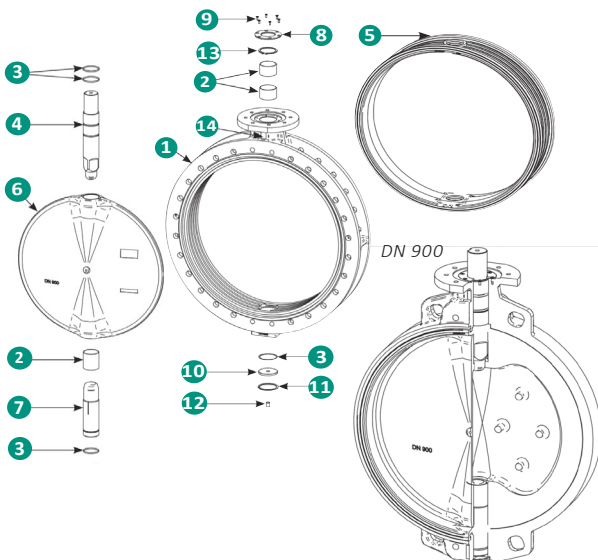
DN 200



DN 250-500

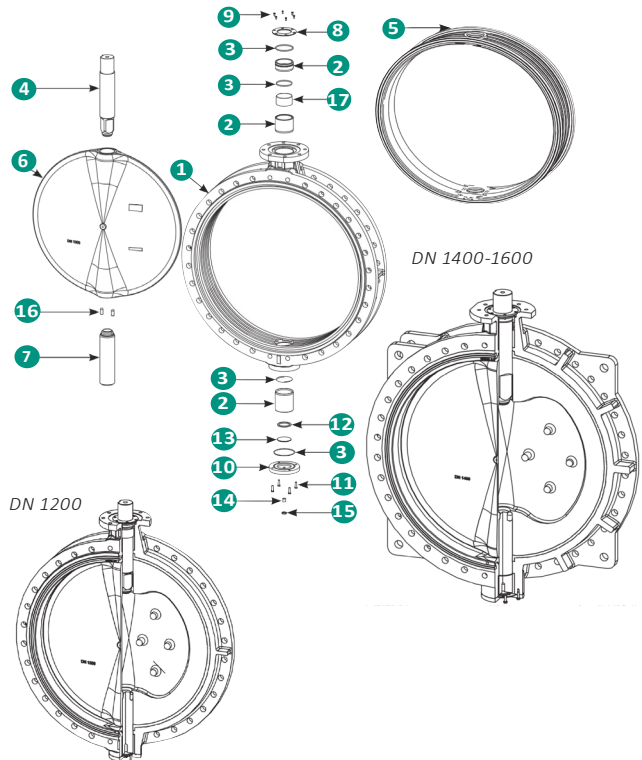


DN 600-1100



N°	Name	Material
1	Body	Ductile Iron GGG 40 + 120 microns Epoxy coating
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CF8M
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 1200-1600



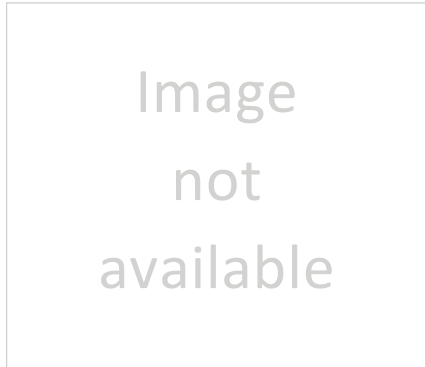


FIVC Motorized Butterfly Valve

Bernard Controls SA

FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

WAF series

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function. Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can by its high quality Bernard Controls actuator be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of bareshaft																			
		A	B	C	D	F	I	G	H	J	K	L	Kg	ISO	P	Q	R	S	T	Keyway	
		axb		h																	
WAFN30050MSEENR1601	50	120	61.5	43	100	30	11	90	211.5	123	120.6	10	2.4	F-07	13	70	4x9	-	-	-	-
WAFN30065MSEENR1601	65	135	69	46	108	30	11	90	234	145	127	10	2.7	F-07	13	70	4x9	-	-	-	-
WAFN30080MSEENR1601	80	141	94	46	124	30	11	90	265	160	145	10	3.2	F-07	13	70	4x9	-	-	-	-
WAFN30100MSEENR1601	100	165	106	52	147	30	11	90	301	185.5	165	10	4.0	F-07	13	70	4x9	-	-	-	-
WAFN30125MSEENR1601	125	180	126.5	56	180	33	14	90	339.5	225	206	12	6.2	F-07	17	70	4x9	-	-	-	-
WAFN30150MSEENR1601	150	193	133	56	206	33	14	90	359	241.3	229	12	7.3	F-07	17	70	4x9	-	-	-	-
WAFN30200MSEENR1601	200	225	170	60	257	33	17	90	428	305	280	12	11.1	F-07	20.3	70	4x9	-	-	-	-
WAFN30250MSEENR1601	250	282.5	210	68	324	23	22	130	515.5	362	335	14	20.2	F-10	26.2	102	4x12	3	70	-	-
WAFN30300MSEENR1601	300	308	240	78	376	23	22	130	571	431.8	394	14	29.6	F-10	26.2	102	4x12	3	70	-	-
WAFN30350MSEENR1601	350	338.5	263	78	422	31	22	160	632.5	476.3	445	16	35.2	F-10	28	102	4x12	3	70	-	-
WAFN30400MSEENR1601	400	380	308	102	480	31	27	160	719	540	510	18	55.5	F-12	33	125	4x14	4	85	-	-
WAFN30450MSEENR1601	450	380.5	340	114	536	38	36	190	758.5	-	-	20	79.7	F-14	48	140	4x18	4	100	-	-
WAFN30500MSEENR1601	500	432.5	380	127	593	38	36	210	850.5	-	-	20	114	F-14	48	140	4x18	4	100	-	-
WAFN30600MSEENR1601	600	494	440	154	690	80	60	210	1014	-	-	24	170.9	F-16	-	165	4x22	5	130	18x11	7
WAFN30700MSEENR1601	700	590	490	165	830	106	65	300	1186	-	-	30	252.9	F-25	-	254	8x18	5	200	18x11	7
WAFN30750MSEENR1601	750	590	530	190	836	106	80	300	1226	-	-	25	294.9	F-25	-	254	8x18	5	200	22x14	9
WAFN30800MSEENR1601	800	630	565	190	902	106	80	300	1301	-	-	28	346.5	F-25	-	254	8x18	5	200	22x14	9
WAFN30900MSEENR1601	900	695	610	203	1010	110	80	350	1415	-	-	32	459.5	F-25	-	254	8x18	5	200	22x14	9
WAFN31000MSEENR1601	1000	770	675	216	1116	110	80	350	1555	-	-	32	580.7	F-25	-	254	8x18	5	200	22x14	9
WAFN31100MSEENR1601	1100	815	733	216	1215	110	80	350	1658	-	-	32	715.5	F-25	-	254	8x18	5	200	22x14	9
WAFN31200MSEENR1601	1200	875	818	254	1334	110	100	350	1803	-	-	40	963.3	F-30	-	298	8x23	5	230	28x16	10

*Dimensions are in millimeters

WAFN3_MSEENR_1601 05.2018

All data sheets are subject to changes without prior notice

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1 / 3

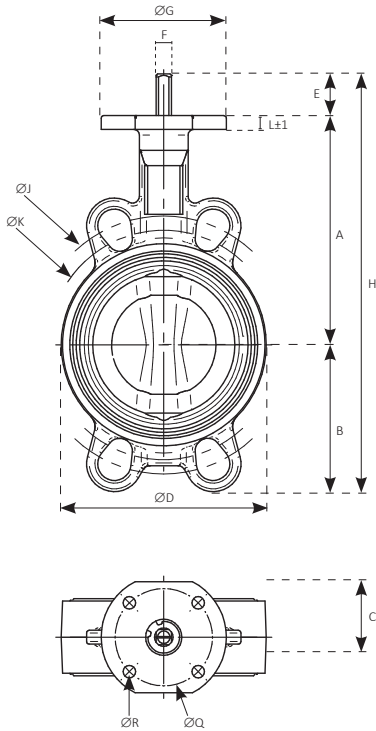
FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2

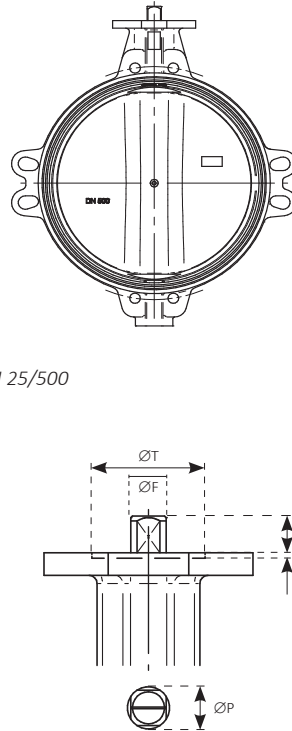
Dimensions

Bareshaft

DN 25/450

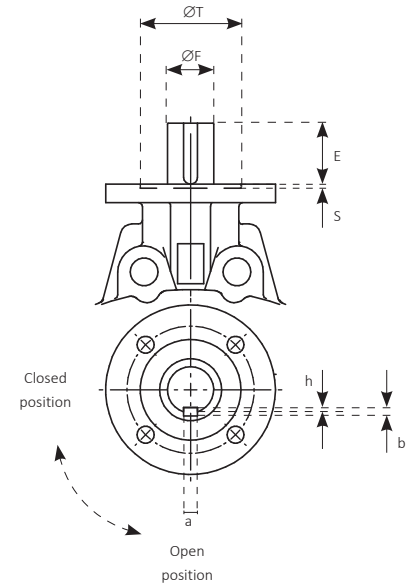


DN 500/1200



DN 25/500

DN 600/1200



Valve with actuator

For actuator details please refer to Bernard Controls catalogue - AQ range

Valve size (DN)	Actuator model				Actuator model	ISO 5211	Max. Torque	Operating time	Power Kw*		Kg	
	PN 6	PN 10	PN 16	PN 25					1x230V 50Hz	3x400V 50Hz		
50	AQ 5	AQ 5	AQ 5	AQ 5	Actuator Dimensions	AQ 5	F07	50 Nm	16 seg.	0.015	0.03	10
65	AQ 5	AQ 5	AQ 5	AQ 5		AQ 10	F07	100 Nm	25 seg.	0.015	0.03	10
80	AQ 5	AQ 5	AQ 5	AQ 10		AQ 15	F07	150 Nm	30 seg.	0.03	0.03	10
100	AQ 5	AQ 5	AQ 5	AQ 10		AQ 25	F07-F10	250 Nm	30 seg.	0.04	0.04	13
125	AQ 10	AQ 10	AQ 15	AQ 15		AQ 50	F07-F10	500 Nm	35 seg.	0.06	0.07	15
150	AQ 10	AQ 15	AQ 15	AQ 25		AQ 80	F10/F12	800 Nm	60 seg.	0.06	0.07	-
200	AQ 15	AQ 15	AQ 25	AQ 50		AQ 120	F12 or F14	1200 Nm	50 / 80 / 155 seg.	0.06	0.07	-
250	AQ 25	AQ 50	AQ 50	AQ 80		AQ 250	F12 or F14	2500 Nm	70 / 105 / 185 seg.	0.06	0.07	-
300	AQ 50	AQ 50	AQ 50	-								
350	AQ 50	AQ 80	AQ 120	-								
400	-	AQ 120	AQ 120	-								
500	-	AQ 250	AQ 250	-								

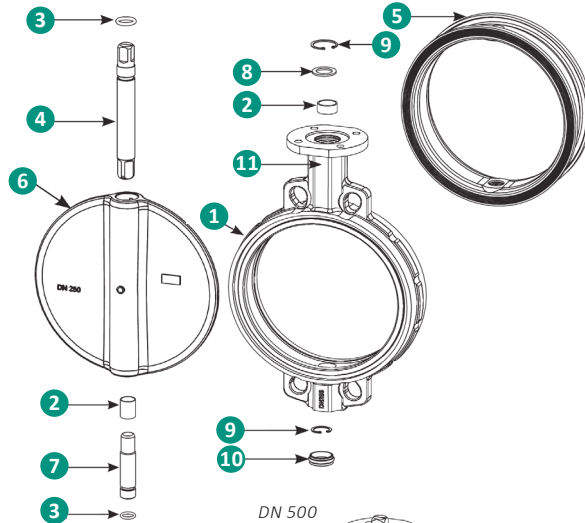
*Voltage ±10%, frequency ±2%

FIVC Butterfly Valve

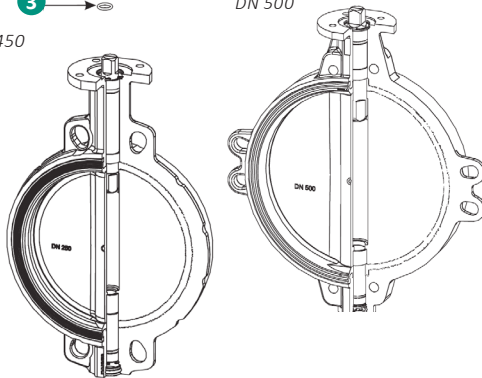
Ductile Iron – PN 16 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2

Product Specification

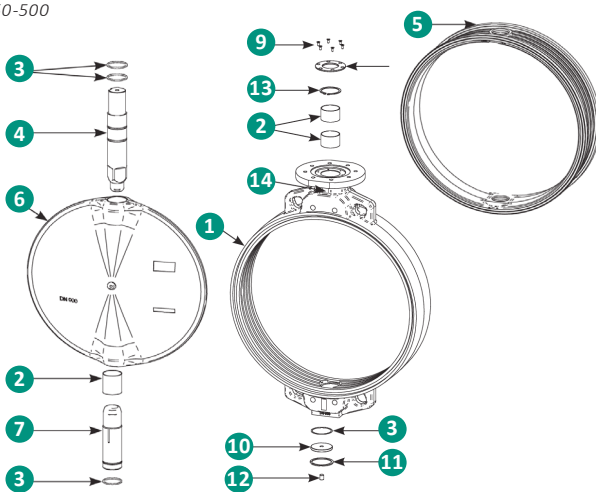
DN 250-500



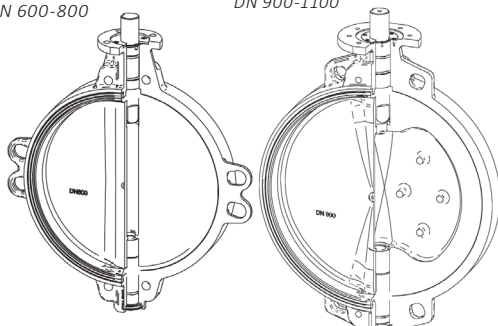
DN 250-450



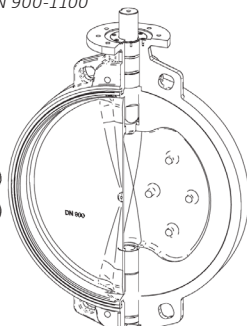
DN 250-500



DN 600-800

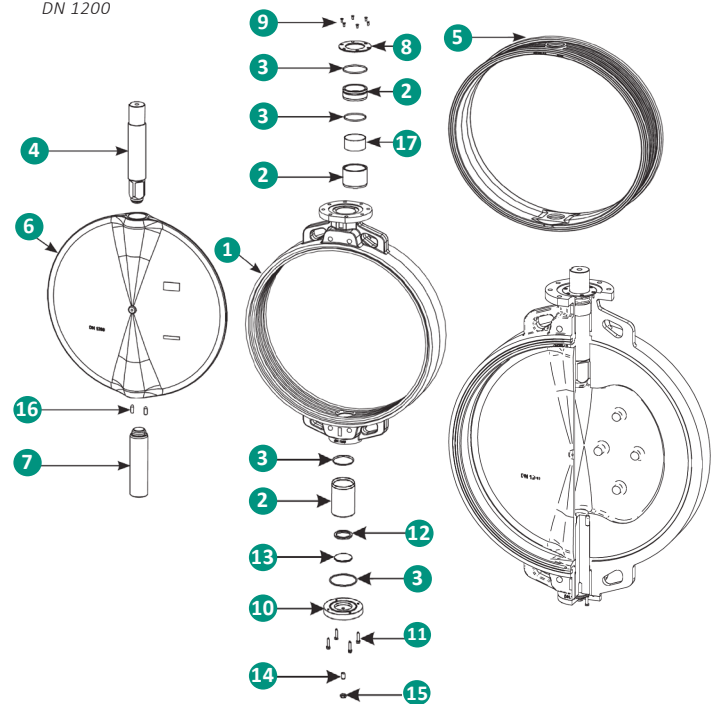


DN 900-1100



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron EN-GJS-400-15
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 1200



FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2



WAF series

Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of shaft																			
		A	B	C	D	F	I	G	H	J	K	L	Kg	ISO	P	Q	R	S	T		
		Keyway																			
		axb	h																		
WAFN50050MSEENR1601	50	120	61.5	43	100	30	11	90	211.5	123	120.6	10	2.4	F-07	13	70	4x9	-	-	-	-
WAFN50065MSEENR1601	65	135	69	46	108	30	11	90	234	145	127	10	2.7	F-07	13	70	4x9	-	-	-	-
WAFN50080MSEENR1601	80	141	94	46	124	30	11	90	265	160	145	10	3.2	F-07	13	70	4x9	-	-	-	-
WAFN50100MSEENR1601	100	165	106	52	147	30	11	90	301	185.5	165	10	4.0	F-07	13	70	4x9	-	-	-	-
WAFN50125MSEENR1601	125	180	126.5	56	180	33	14	90	339.5	225	206	12	6.2	F-07	17	70	4x9	-	-	-	-
WAFN50150MSEENR1601	150	193	133	56	206	33	14	90	359	241.3	229	12	7.3	F-07	17	70	4x9	-	-	-	-
WAFN50200MSEENR1601	200	225	170	60	257	33	17	90	428	305	280	12	11.1	F-07	20.3	70	4x9	-	-	-	-
WAFN50250MSEENR1601	250	282.5	210	68	324	23	22	130	515.5	362	335	14	20.2	F-10	26.2	102	4x12	3	70	-	-
WAFN50300MSEENR1601	300	308	240	78	376	23	22	130	571	431.8	394	14	29.6	F-10	26.2	102	4x12	3	70	-	-
WAFN50350MSEENR1601	350	338.5	263	78	422	31	22	160	632.5	476.3	445	16	35.2	F-10	28	102	4x12	3	70	-	-
WAFN50400MSEENR1601	400	380	308	102	480	31	27	160	719	540	510	18	55.5	F-12	33	125	4x14	4	85	-	-
WAFN50450MSEENR1601	450	380.5	340	114	536	38	36	190	758.5	-	-	20	79.7	F-14	48	140	4x18	4	100	-	-
WAFN50500MSEENR1601	500	432.5	380	127	593	38	36	210	850.5	-	-	20	114	F-14	48	140	4x18	4	100	-	-
WAFN50600MSEENR1601	600	494	440	154	690	80	60	210	1014	-	-	24	170.9	F-16	-	165	4x22	5	130	18x11	7
WAFN50700MSEENR1601	700	590	490	165	830	106	65	300	1186	-	-	30	252.9	F-25	-	254	8x18	5	200	18x11	7
WAFN50750MSEENR1601	750	590	530	190	836	106	80	300	1226	-	-	25	294.9	F-25	-	254	8x18	5	200	22x14	9
WAFN50800MSEENR1601	800	630	565	190	902	106	80	300	1301	-	-	28	346.5	F-25	-	254	8x18	5	200	22x14	9
WAFN50900MSEENR1601	900	695	610	203	1010	110	80	350	1415	-	-	32	459.5	F-25	-	254	8x18	5	200	22x14	9
WAFN51000MSEENR1601	1000	770	675	216	1116	110	80	350	1555	-	-	32	580.7	F-25	-	254	8x18	5	200	22x14	9
WAFN51100MSEENR1601	1100	815	733	216	1215	110	80	350	1658	-	-	32	715.5	F-25	-	254	8x18	5	200	22x14	9
WAFN51200MSEENR1601	1200	875	818	254	1334	110	100	350	1803	-	-	40	963.3	F-30	-	298	8x23	5	230	28x16	10

*Dimensions are in millimeters
WAFN5_MSEENR_1601 05.2018

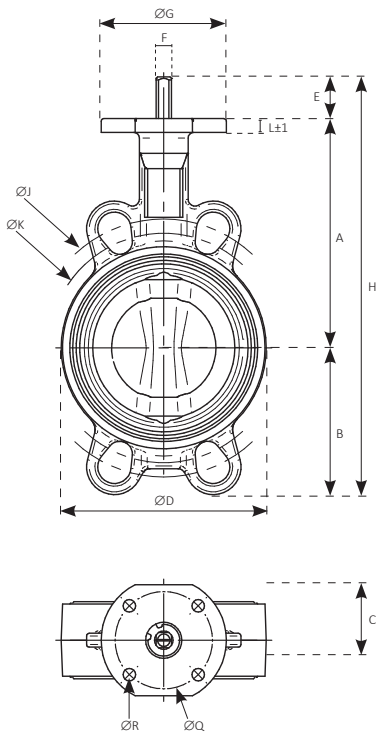
FIVC Butterfly Valve

Ductile Iron – PN 16 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2

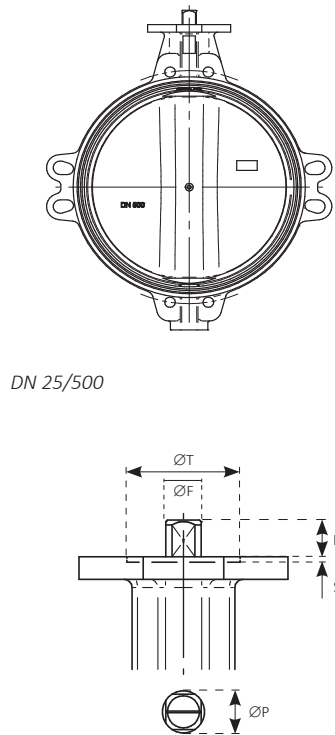
Dimensions

Bareshaft

DN 25/450

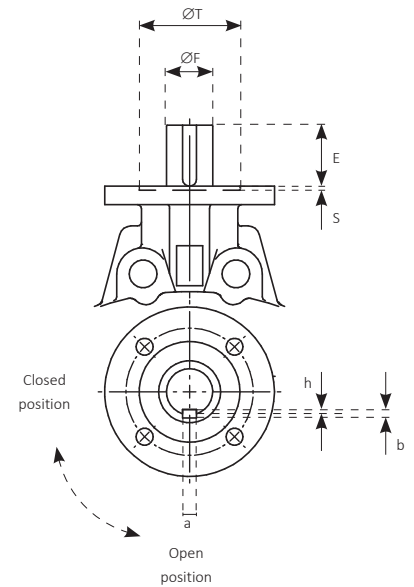


DN 500/1200



DN 25/500

DN 600/1200



Valve with actuator

For actuator details please refer to Bernard Controls catalogue - AQ range

Valve size (DN)	Actuator model				Actuator model	ISO 5211	Max. Torque	Operating time	Power Kw*		Kg	
	PN 6	PN 10	PN 16	PN 25					1x230V 50Hz	3x400V 50Hz		
50	AQ 5	AQ 5	AQ 5	AQ 5	Actuator Dimensions	AQ 5	F07	50 Nm	16 seg.	0.015	0.03	10
65	AQ 5	AQ 5	AQ 5	AQ 5		AQ 10	F07	100 Nm	25 seg.	0.015	0.03	10
80	AQ 5	AQ 5	AQ 5	AQ 10		AQ 15	F07	150 Nm	30 seg.	0.03	0.03	10
100	AQ 5	AQ 5	AQ 5	AQ 10		AQ 25	F07-F10	250 Nm	30 seg.	0.04	0.04	13
125	AQ 10	AQ 10	AQ 15	AQ 15		AQ 50	F07-F10	500 Nm	35 seg.	0.06	0.07	15
150	AQ 10	AQ 15	AQ 15	AQ 25		AQ 80	F10/F12	800 Nm	60 seg.	0.06	0.07	-
200	AQ 15	AQ 15	AQ 25	AQ 50		AQ 120	F12 or F14	1200 Nm	50 / 80 / 155 seg.	0.06	0.07	-
250	AQ 25	AQ 50	AQ 50	AQ 80		AQ 250	F12 or F14	2500 Nm	70 / 105 / 185 seg.	0.06	0.07	-
300	AQ 50	AQ 50	AQ 50	-								
350	AQ 50	AQ 80	AQ 120	-								
400	-	AQ 120	AQ 120	-								
500	-	AQ 250	AQ 250	-								

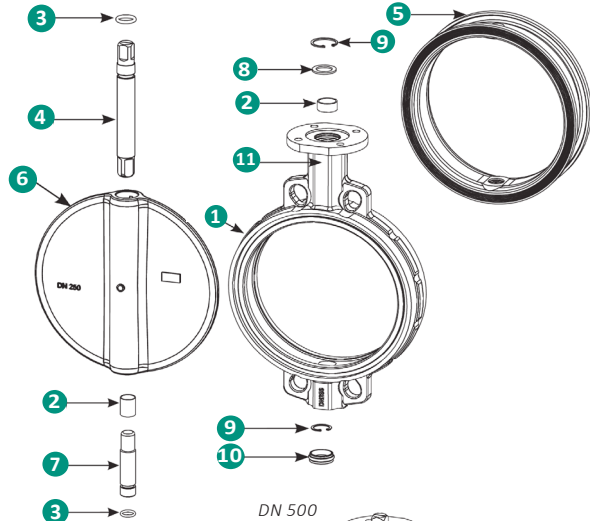
*Voltage ±10%, frequency ±2%

FIVC Butterfly Valve

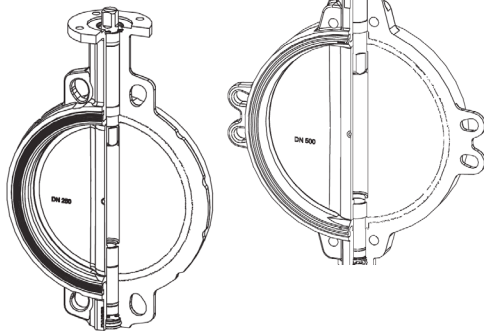
Ductile Iron – PN 16 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2

Product Specification

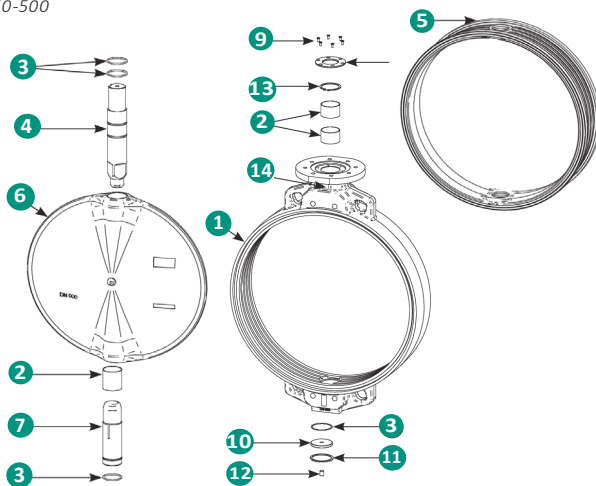
DN 250-500



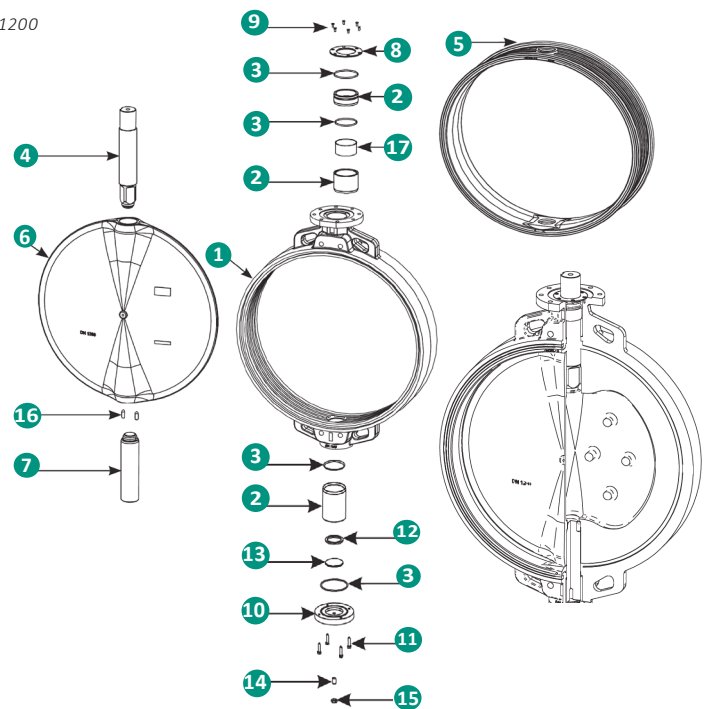
DN 250-450



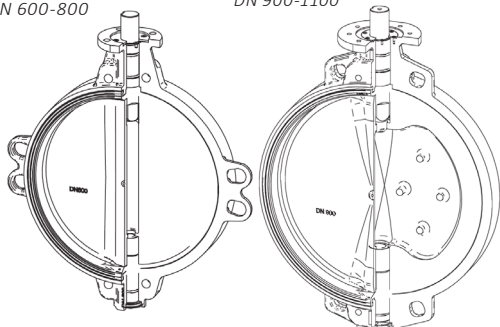
DN 250-500



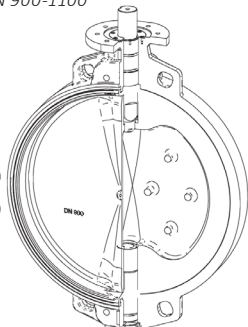
DN 1200



DN 600-800



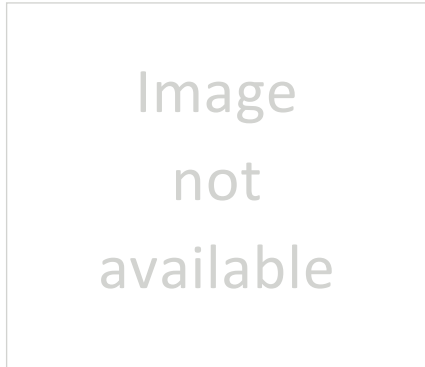
DN 900-1100



N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CFM8
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 25
Shaft: SS AISI 420
Thread: Wafer
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 25 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

WAF series

Description

FIVC Wafer Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes. With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance. Furthermore, the valve can be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 16 (w/pin) • PN 20 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of bareshaft																			
		A	B	C	D	F	I	G	H	J	K	L	Kg	ISO	P	Q	R	S	T	Keyway	
																				axb	h
WAFN50050MSEENR2501	50	120	61.5	43	100	30	11	90	211.5	123	120.6	10	2.4	F-07	13	70	4x9	-	-	-	-
WAFN50065MSEENR2501	65	135	69	46	108	30	11	90	234	145	127	10	2.7	F-07	13	70	4x9	-	-	-	-
WAFN50080MSEENR2501	80	141	94	46	124	30	11	90	265	160	145	10	3.2	F-07	13	70	4x9	-	-	-	-
WAFN50100MSEENR2501	100	165	106	52	147	30	11	90	301	185.5	165	10	4.0	F-07	13	70	4x9	-	-	-	-
WAFN50125MSEENR2501	125	180	126.5	56	180	33	14	90	339.5	225	206	12	6.2	F-07	17	70	4x9	-	-	-	-
WAFN50150MSEENR2501	150	193	133	56	206	33	14	90	359	241.3	229	12	7.3	F-07	17	70	4x9	-	-	-	-
WAFN50200MSEENR2501	200	225	170	60	257	33	17	90	428	305	280	12	11.1	F-07	20.3	70	4x9	-	-	-	-
WAFN50250MSEENR2501	250	282.5	210	68	324	23	22	130	515.5	362	335	14	20.2	F-10	26.2	102	4x12	3	70	-	-
WAFN50300MSEENR2501	300	308	240	78	376	23	22	130	571	431.8	394	14	29.6	F-10	26.2	102	4x12	3	70	-	-
WAFN50350MSEENR2501	350	338.5	263	78	422	31	22	160	632.5	476.3	445	16	35.2	F-10	28	102	4x12	3	70	-	-
WAFN50400MSEENR2501	400	380	308	102	480	31	27	160	719	540	510	18	55.5	F-12	33	125	4x14	4	85	-	-
WAFN50450MSEENR2501	450	380.5	340	114	536	38	36	190	758.5	-	-	20	79.7	F-14	48	140	4x18	4	100	-	-
WAFN50500MSEENR2501	500	432.5	380	127	593	38	36	210	850.5	-	-	20	114	F-14	48	140	4x18	4	100	-	-
WAFN50600MSEENR2501	600	494	440	154	690	80	60	210	1014	-	-	24	170.9	F-16	-	165	4x22	5	130	18x11	7
WAFN50700MSEENR2501	700	590	490	165	830	106	65	300	1186	-	-	30	252.9	F-25	-	254	8x18	5	200	18x11	7
WAFN50750MSEENR2501	750	590	530	190	836	106	80	300	1226	-	-	25	294.9	F-25	-	254	8x18	5	200	22x14	9
WAFN50800MSEENR2501	800	630	565	190	902	106	80	300	1301	-	-	28	346.5	F-25	-	254	8x18	5	200	22x14	9
WAFN50900MSEENR2501	900	695	610	203	1010	110	80	350	1415	-	-	32	459.5	F-25	-	254	8x18	5	200	22x14	9
WAFN51000MSEENR2501	1000	770	675	216	1116	110	80	350	1555	-	-	32	580.7	F-25	-	254	8x18	5	200	22x14	9
WAFN51100MSEENR2501	1100	815	733	216	1215	110	80	350	1658	-	-	32	715.5	F-25	-	254	8x18	5	200	22x14	9
WAFN51200MSEENR2501	1200	875	818	254	1334	110	100	350	1803	-	-	40	963.3	F-30	-	298	8x23	5	230	28x16	10

*Dimensions are in millimeters

WAFN5_MSEENR_2501 05.2018

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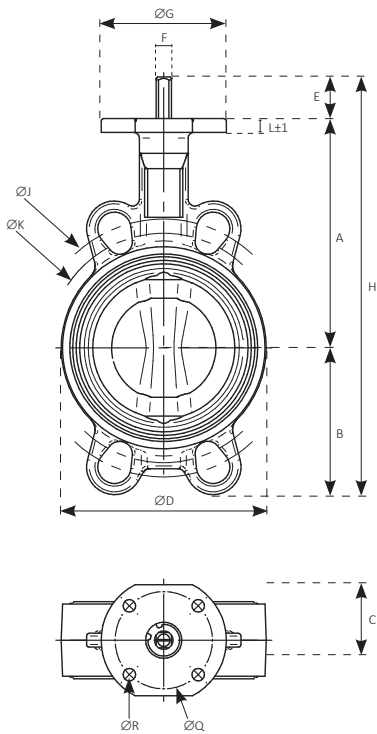
FIVC Butterfly Valve

Ductile Iron – PN 25 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2

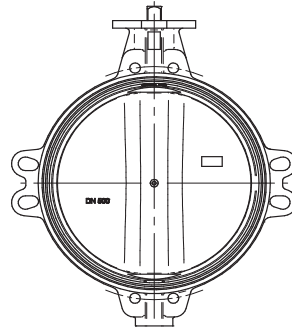
Dimensions

Bareshaft

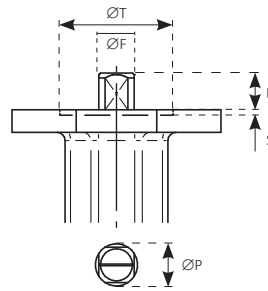
DN 50/200



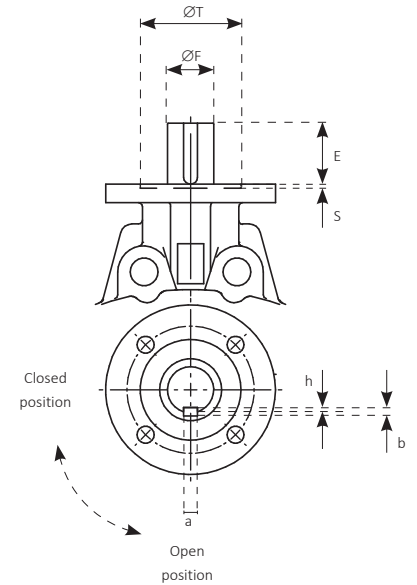
DN 500/1200



DN 25/500



DN 600/1200



Valve with actuator

For actuator details please refer to Bernard Controls catalogue - AQ range

Valve size (DN)	Actuator model				Actuator model	ISO 5211	Max. Torque	Operating time	Power Kw*		Kg	
	PN 6	PN 10	PN 16	PN 25					1x230V 50Hz	3x400V 50Hz		
50	AQ 5	AQ 5	AQ 5	AQ 5	Actuator Dimensions	AQ 5	F07	50 Nm	16 seg.	0.015	0.03	10
65	AQ 5	AQ 5	AQ 5	AQ 5		AQ 10	F07	100 Nm	25 seg.	0.015	0.03	10
80	AQ 5	AQ 5	AQ 5	AQ 10		AQ 15	F07	150 Nm	30 seg.	0.03	0.03	10
100	AQ 5	AQ 5	AQ 5	AQ 10		AQ 25	F07-F10	250 Nm	30 seg.	0.04	0.04	13
125	AQ 10	AQ 10	AQ 15	AQ 15		AQ 50	F07-F10	500 Nm	35 seg.	0.06	0.07	15
150	AQ 10	AQ 15	AQ 15	AQ 25		AQ 80	F10/F12	800 Nm	60 seg.	0.06	0.07	-
200	AQ 15	AQ 15	AQ 25	AQ 50		AQ 120	F12 or F14	1200 Nm	50 / 80 / 155 seg.	0.06	0.07	-
250	AQ 25	AQ 50	AQ 50	AQ 80		AQ 250	F12 or F14	2500 Nm	70 / 105 / 185 seg.	0.06	0.07	-
300	AQ 50	AQ 50	AQ 50	-		-	-	-	-	-	-	-
350	AQ 50	AQ 80	AQ 120	-		-	-	-	-	-	-	-

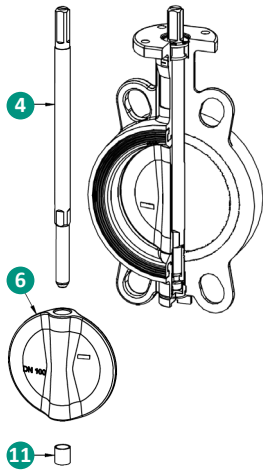
*Voltage ±10%, frequency ±2%

FIVC Butterfly Valve

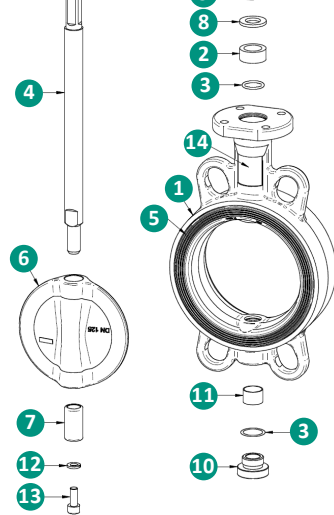
Ductile Iron – PN 25 – Wafer – Actuator – Replaceable – Pinless – EN 1092-2

Product Specification

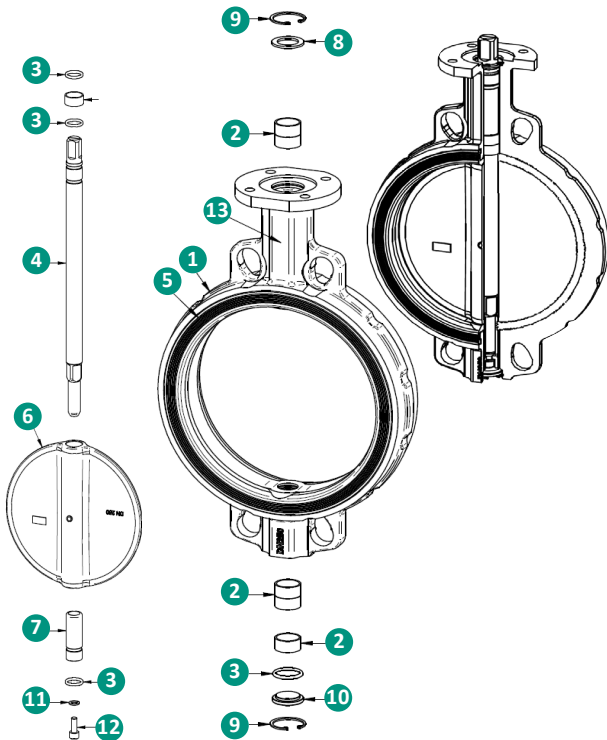
DN 50-100



DN 125-200



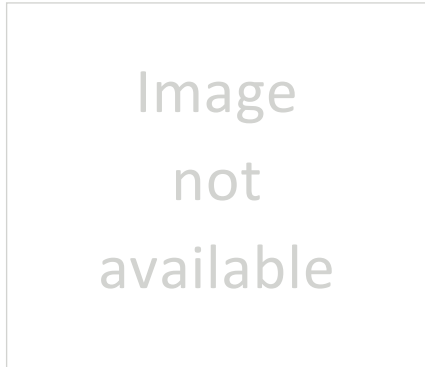
DN 250-300



N°	Name	Material
1	Body	Ductile Iron GGG 40
2	Bushing	Steel, Bronze, PTFE
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel 1.4542
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CFM8
7	Lower shaft	Stainless Steel 1.4542
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	Stainless Steel AISI 420
11	Spring lock washer	Stainless Steel AISI 304
12	Features Tag	Polyester

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Ductile Iron
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes.

With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance.

Furthermore, the valve can by its high quality Bernard Controls actuator be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of bareshaft																		
		A*	B*	C*	D*	E*	F*	G*	H*	J*	L*	Kg	ISO	P*	Q*	R*	S*	T*	Keyway	
																			axb	h
LUGN30050MSEENR1603	50	120	59.5	43	100	30	11	90	209.5	156	10	2.9	F-07	13	70	4x9	-	-	-	-
LUGN30065MSEENR1603	65	135	66.5	46	108	30	11	90	231.5	175	10	3.3	F-07	13	70	4x9	-	-	-	-
LUGN30080MSEENR1603	80	141	75	46	124	30	11	90	246	185	10	3.6	F-07	13	70	4x9	-	-	-	-
LUGN30100MSEENR1603	100	165	105	52	147.3	30	11	90	300	224	10	6.4	F-07	13	70	4x9	-	-	-	-
LUGN30125MSEENR1603	125	180	125	56	180	33	14	90	338	267	12	9.9	F-07	17	70	4x9	-	-	-	-
LUGN30150MSEENR1603	150	193	136.5	56	206.5	33	14	90	362.5	292	12	10.6	F-07	17	70	4x9	-	-	-	-
LUGN30200MSEENR1603	200	225	171	60	257	33	17	90	429	352	12	17.5	F-07	20.3	70	4x9	-	-	-	-
LUGN30250MSEENR1603	250	282.5	210	68	324	23	17	130	515.5	409	14	26.5	F-10	26.2	102	4x12	3	70	-	-
LUGN30300MSEENR1603	300	308	240	78	383	23	22	130	571	480	14	39.6	F-10	26.2	102	4x12	3	70	-	-
LUGN30350MSEENR1603	350	338.5	263	78	437	31	22	160	632.5	522	18	56.0	F-10	28	102	4x12	3	70	-	-
LUGN30400MSEENR1603	400	380	308	102	486	31	27	160	719	595	17	74.8	F-12	33	125	4x14	4	85	-	-
LUGN30450MSEENR1603	450	380.5	340	114	538	38	36	190	758.5	633	20	101.4	F-14	48	140	4x18	4	100	-	-
LUGN30500MSEENR1603	500	432.5	380	127	613	38	36	210	850.5	717	20	154.4	F-14	48	140	4x18	4	100	-	-
LUGN30600MSEENR1603	600	494	440	154	690	80	60	210	1014	833	24	215.9	F-16	-	165	4x22	5	130	18x11	7
LUGN30700MSEENR1603	700	590	490	165	832	106	65	300	1186	904	30	287	F-25	-	254	8x18	5	200	18x11	7
LUGN30750MSEENR1603	750	590	530	190	836	106	80	300	1226	964	25	370	F-25	-	254	8x18	5	200	22x14	9
LUGN30800MSEENR1603	800	630	565	190	902	106	80	300	1301	1020	28	425.5	F-25	-	254	8x18	5	200	22x14	9
LUGN30900MSEENR1603	900	695	610	203	1010	110	80	350	1415	1120	32	530.5	F-25	-	254	8x18	5	200	22x14	9
LUGN31000MSEENR1603	1000	770	675	216	1116	110	80	350	1555	1246	32	680.7	F-25	-	254	8x18	5	200	22x14	9

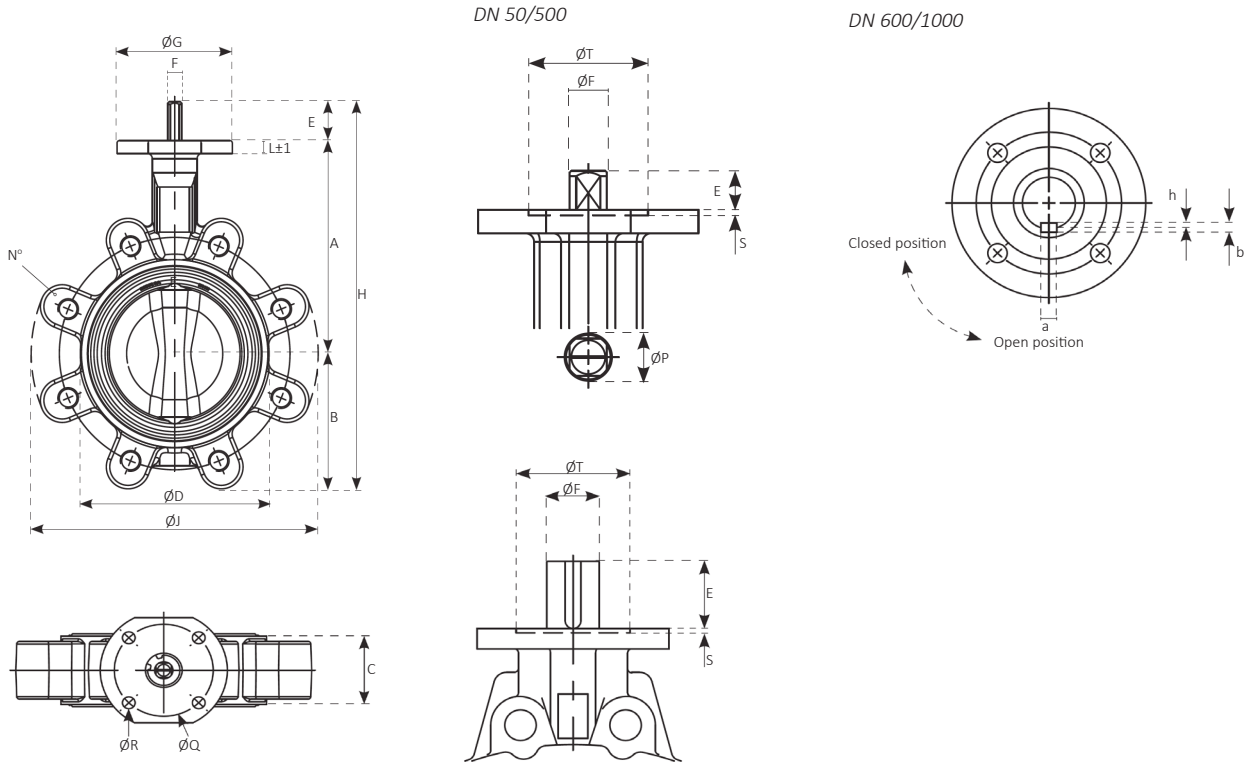
*Dimensions are in millimeters

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2

Dimensions

Bareshaft



Valve with actuator

For actuator details please refer to Bernard Controls catalogue - AQ range

Valve size (DN)	Actuator model				Actuator model	ISO 5211	Max. Torque	Operating time	Power Kw*		Kg	
	PN 6	PN 10	PN 16	PN 25					1x230V 50Hz	3x400V 50Hz		
50	AQ 5	AQ 5	AQ 5	AQ 5	Actuator Dimensions	AQ 5	F07	50 Nm	16 seg.	0.015	0.03	10
65	AQ 5	AQ 5	AQ 5	AQ 5		AQ 10	F07	100 Nm	25 seg.	0.015	0.03	10
80	AQ 5	AQ 5	AQ 5	AQ 10		AQ 15	F07	150 Nm	30 seg.	0.03	0.03	10
100	AQ 5	AQ 5	AQ 5	AQ 10		AQ 25	F07-F10	250 Nm	30 seg.	0.04	0.04	13
125	AQ 10	AQ 10	AQ 15	AQ 15		AQ 50	F07-F10	500 Nm	35 seg.	0.06	0.07	15
150	AQ 10	AQ 15	AQ 15	AQ 25		AQ 80	F10/F12	800 Nm	60 seg.	0.06	0.07	-
200	AQ 15	AQ 15	AQ 25	AQ 50		AQ 120	F12 or F14	1200 Nm	50 / 80 / 155 seg.	0.06	0.07	-
250	AQ 25	AQ 50	AQ 50	AQ 80		AQ 250	F12 or F14	2500 Nm	70 / 105 / 185 seg.	0.06	0.07	-
300	AQ 50	AQ 50	AQ 50	-		-	-	-	-	-	-	-
350	AQ 50	AQ 80	AQ 120	-		-	-	-	-	-	-	-
400	-	AQ 120	AQ 120	-		-	-	-	-	-	-	-
500	-	AQ 250	AQ 250	-		-	-	-	-	-	-	-

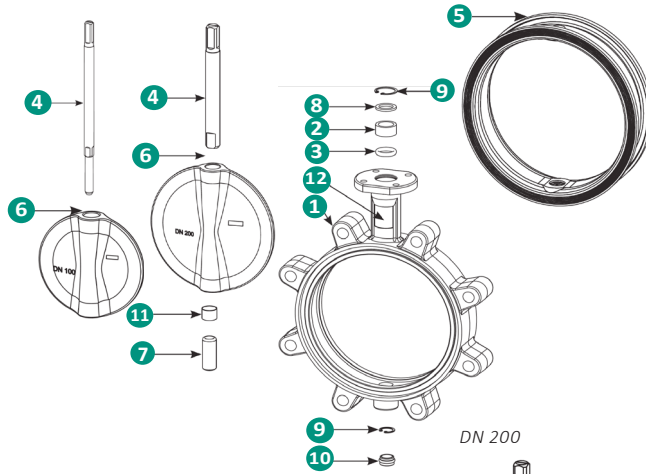
*Voltage ±10%, frequency ±2%

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2

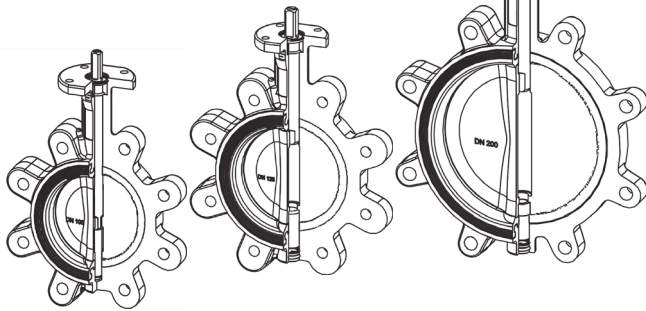
Product Specification

DN 50-100 DN 125-150

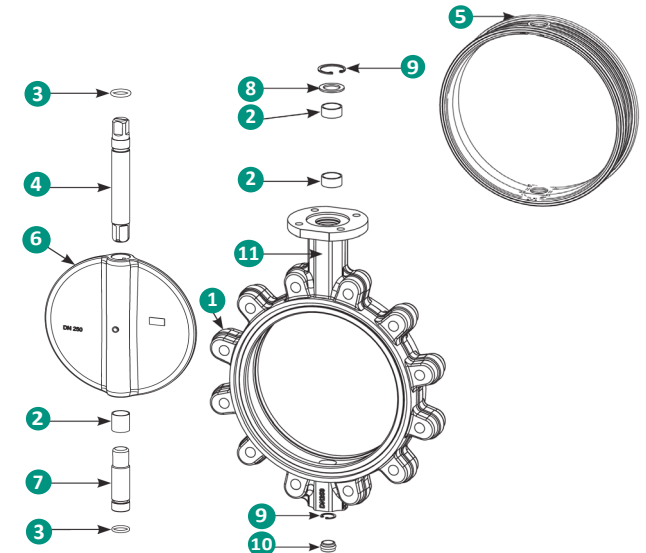


DN 50-100

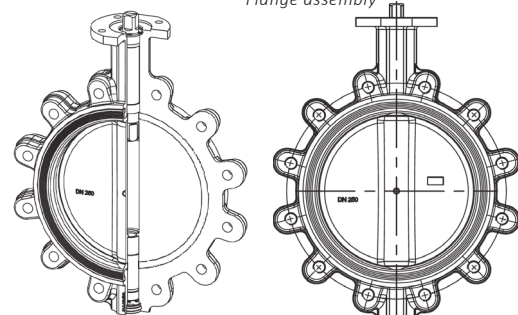
DN 125-150



DN 250-500

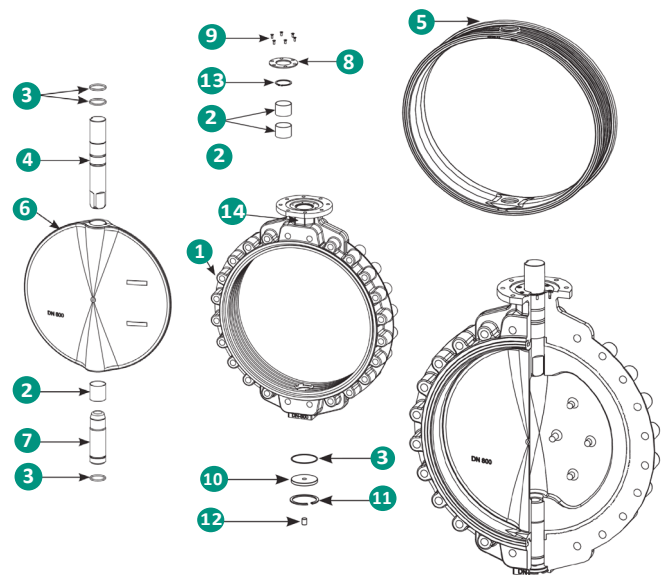


Flange assembly

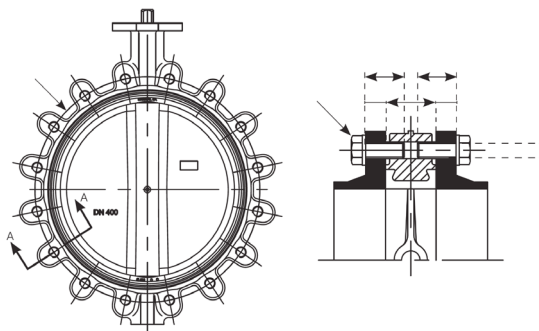


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Ductile Iron EN-GJS-400-15
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 600/1000

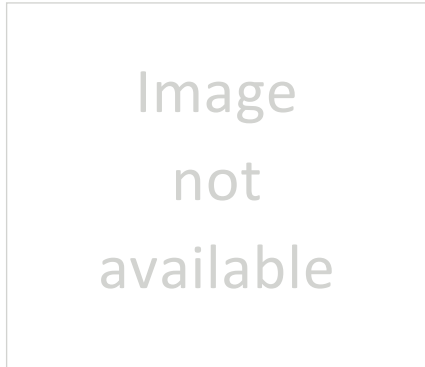


Screwing



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Nickel-plated
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar
- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes.

With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance.

Furthermore, the valve can by its high quality Bernard Controls actuator be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Stainless Steel 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of bareshaft																		
		A*	B*	C*	D*	E*	F*	G*	H*	J*	L*	Kg	ISO	P*	Q*	R*	S*	T*	Keyway	
		axb h																		
LUGN3NP0050MSEENR1603	50	120	59.5	43	100	30	11	90	209.5	156	10	2.9	F-07	13	70	4x9	-	-	-	-
LUGN3NP0065MSEENR1603	65	135	66.5	46	108	30	11	90	231.5	175	10	3.3	F-07	13	70	4x9	-	-	-	-
LUGN3NP0080MSEENR1603	80	141	75	46	124	30	11	90	246	185	10	3.6	F-07	13	70	4x9	-	-	-	-
LUGN3NP0100MSEENR1603	100	165	105	52	147.3	30	11	90	300	224	10	6.4	F-07	13	70	4x9	-	-	-	-
LUGN3NP0125MSEENR1603	125	180	125	56	180	33	14	90	338	267	12	9.9	F-07	17	70	4x9	-	-	-	-
LUGN3NP0150MSEENR1603	150	193	136.5	56	206.5	33	14	90	362.5	292	12	10.6	F-07	17	70	4x9	-	-	-	-
LUGN3NP0200MSEENR1603	200	225	171	60	257	33	17	90	429	352	12	17.5	F-07	20.3	70	4x9	-	-	-	-
LUGN3NP0250MSEENR1603	250	282.5	210	68	324	23	17	130	515.5	409	14	26.5	F-10	26.2	102	4x12	3	70	-	-
LUGN3NP0300MSEENR1603	300	308	240	78	383	23	22	130	571	480	14	39.6	F-10	26.2	102	4x12	3	70	-	-
LUGN3NP0350MSEENR1603	350	338.5	263	78	437	31	22	160	632.5	522	18	56.0	F-10	28	102	4x12	3	70	-	-
LUGN3NP0400MSEENR1603	400	380	308	102	486	31	27	160	719	595	17	74.8	F-12	33	125	4x14	4	85	-	-
LUGN3NP0450MSEENR1603	450	380.5	340	114	538	38	36	190	758.5	633	20	101.4	F-14	48	140	4x18	4	100	-	-
LUGN3NP0500MSEENR1603	500	432.5	380	127	613	38	36	210	850.5	717	20	154.4	F-14	48	140	4x18	4	100	-	-
LUGN3NP0600MSEENR1603	600	494	440	154	690	80	60	210	1014	833	24	215.9	F-16	-	165	4x22	5	130	18x11	7
LUGN3NP0700MSEENR1603	700	590	490	165	832	106	65	300	1186	904	30	287	F-25	-	254	8x18	5	200	18x11	7
LUGN3NP0750MSEENR1603	750	590	530	190	836	106	80	300	1226	964	25	370	F-25	-	254	8x18	5	200	22x14	9
LUGN3NP0800MSEENR1603	800	630	565	190	902	106	80	300	1301	1020	28	425.5	F-25	-	254	8x18	5	200	22x14	9
LUGN3NP0900MSEENR1603	900	695	610	203	1010	110	80	350	1415	1120	32	530.5	F-25	-	254	8x18	5	200	22x14	9
LUGN3NP1000MSEENR1603	1000	770	675	216	1116	110	80	350	1555	1246	32	680.7	F-25	-	254	8x18	5	200	22x14	9

*Dimensions are in millimeters

LUGN3NP_MSEENR_1603 05.2018

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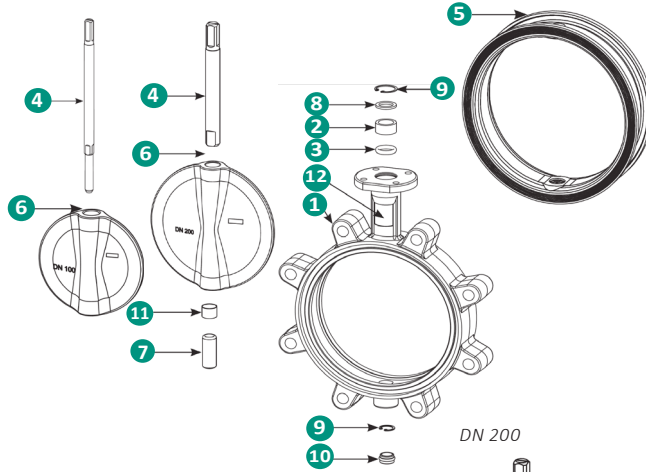
1 / 3

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2

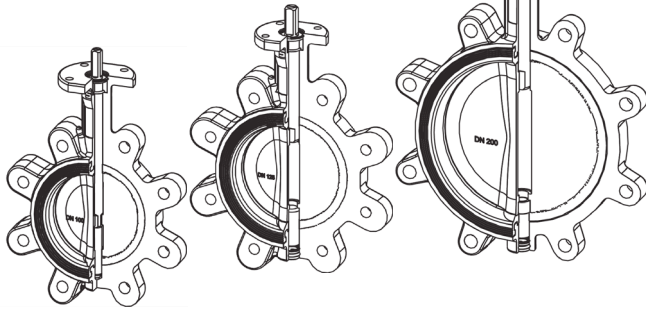
Product Specification

DN 50-100 DN 125-150

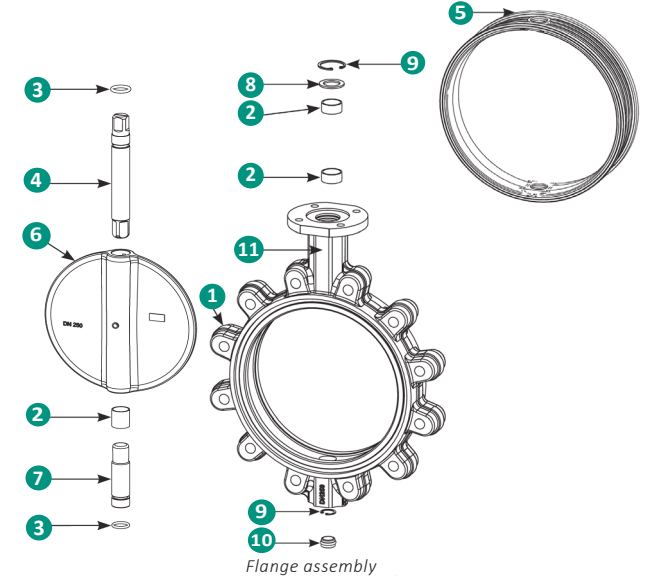


DN 50-100

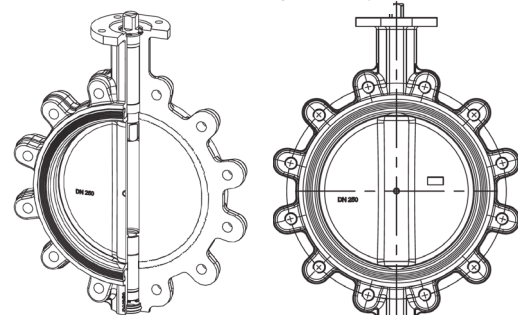
DN 125-150



DN 250-500

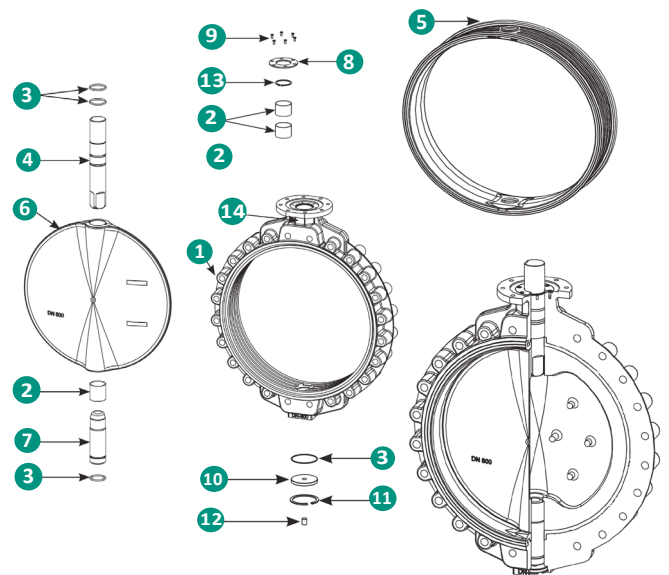


Flange assembly

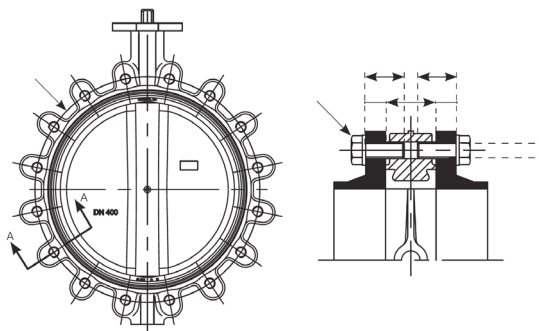


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Nickel-plated
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 600/1000

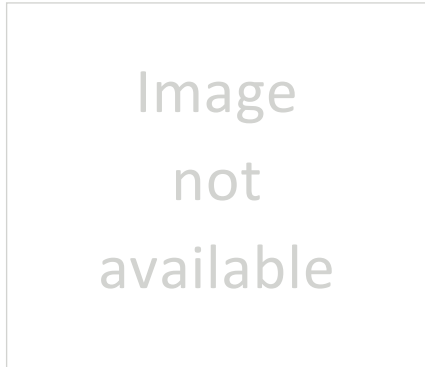


Screwing



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Replaceable EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

LUG series

Description

FIVC Lugged Butterfly Valve with its replaceable seat is designed to be installed in pipelines for isolating or regulating purposes.

With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance.

Furthermore, the valve can by its high quality Bernard Controls actuator be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Vulcanized • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of bareshaft																		
		A*	B*	C*	D*	E*	F*	G*	H*	J*	L*	Kg	ISO	P*	Q*	R*	S*	T*	Keyway	
		axb		h																
LUGN50050MSEENR1603	50	120	59.5	43	100	30	11	90	209.5	156	10	2.9	F-07	13	70	4x9	-	-	-	-
LUGN50065MSEENR1603	65	135	66.5	46	108	30	11	90	231.5	175	10	3.3	F-07	13	70	4x9	-	-	-	-
LUGN50080MSEENR1603	80	141	75	46	124	30	11	90	246	185	10	3.6	F-07	13	70	4x9	-	-	-	-
LUGN50100MSEENR1603	100	165	105	52	147.3	30	11	90	300	224	10	6.4	F-07	13	70	4x9	-	-	-	-
LUGN50125MSEENR1603	125	180	125	56	180	33	14	90	338	267	12	9.9	F-07	17	70	4x9	-	-	-	-
LUGN50150MSEENR1603	150	193	136.5	56	206.5	33	14	90	362.5	292	12	10.6	F-07	17	70	4x9	-	-	-	-
LUGN50200MSEENR1603	200	225	171	60	257	33	17	90	429	352	12	17.5	F-07	20.3	70	4x9	-	-	-	-
LUGN50250MSEENR1603	250	282.5	210	68	324	23	17	130	515.5	409	14	26.5	F-10	26.2	102	4x12	3	70	-	-
LUGN50300MSEENR1603	300	308	240	78	383	23	22	130	571	480	14	39.6	F-10	26.2	102	4x12	3	70	-	-
LUGN50350MSEENR1603	350	338.5	263	78	437	31	22	160	632.5	522	18	56.0	F-10	28	102	4x12	3	70	-	-
LUGN50400MSEENR1603	400	380	308	102	486	31	27	160	719	595	17	74.8	F-12	33	125	4x14	4	85	-	-
LUGN50450MSEENR1603	450	380.5	340	114	538	38	36	190	758.5	633	20	101.4	F-14	48	140	4x18	4	100	-	-
LUGN50500MSEENR1603	500	432.5	380	127	613	38	36	210	850.5	717	20	154.4	F-14	48	140	4x18	4	100	-	-
LUGN50600MSEENR1603	600	494	440	154	690	80	60	210	1014	833	24	215.9	F-16	-	165	4x22	5	130	18x11	7
LUGN50700MSEENR1603	700	590	490	165	832	106	65	300	1186	904	30	287	F-25	-	254	8x18	5	200	18x11	7
LUGN50750MSEENR1603	750	590	530	190	836	106	80	300	1226	964	25	370	F-25	-	254	8x18	5	200	22x14	9
LUGN50800MSEENR1603	800	630	565	190	902	106	80	300	1301	1020	28	425.5	F-25	-	254	8x18	5	200	22x14	9
LUGN50900MSEENR1603	900	695	610	203	1010	110	80	350	1415	1120	32	530.5	F-25	-	254	8x18	5	200	22x14	9
LUGN51000MSEENR1603	1000	770	675	216	1116	110	80	350	1555	1246	32	680.7	F-25	-	254	8x18	5	200	22x14	9

*Dimensions are in millimeters

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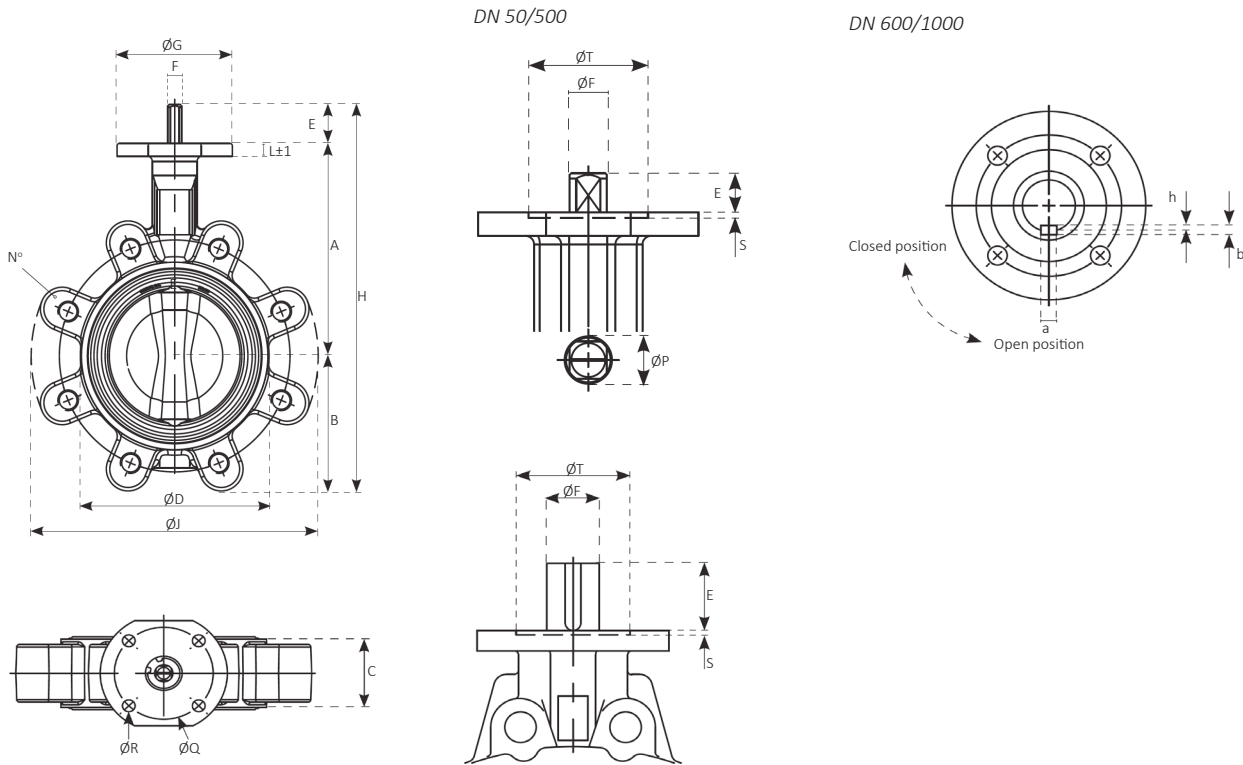
1 / 3

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2

Dimensions

Bareshaft



Valve with actuator

For actuator details please refer to Bernard Controls catalogue - AQ range

Valve size (DN)	Actuator model				Actuator model	ISO 5211	Max. Torque	Operating time	Power Kw*		Kg
	PN 6	PN 10	PN 16	PN 25					1x230V 50Hz	3x400V 50Hz	
50	AQ 5	AQ 5	AQ 5	AQ 5	AQ 5	F07	50 Nm	16 seg.	0.015	0.03	10
65	AQ 5	AQ 5	AQ 5	AQ 5	AQ 5	F07	100 Nm	25 seg.	0.015	0.03	10
80	AQ 5	AQ 5	AQ 5	AQ 10	AQ 10	F07	150 Nm	30 seg.	0.03	0.03	10
100	AQ 5	AQ 5	AQ 5	AQ 10	AQ 10	F07-F10	250 Nm	30 seg.	0.04	0.04	13
125	AQ 10	AQ 10	AQ 15	AQ 15	AQ 15	F07-F10	500 Nm	35 seg.	0.06	0.07	15
150	AQ 10	AQ 15	AQ 15	AQ 25	AQ 25	F10/F12	800 Nm	60 seg.	0.06	0.07	-
200	AQ 15	AQ 15	AQ 25	AQ 50	AQ 50	F12 or F14	1200 Nm	50 / 80 / 155 seg.	0.06	0.07	-
250	AQ 25	AQ 50	AQ 50	AQ 80	AQ 80	F12 or F14	2500 Nm	70 / 105 / 185 seg.	0.06	0.07	-
300	AQ 50	AQ 50	AQ 50	-	-						
350	AQ 50	AQ 80	AQ 120	-	-						
400	-	AQ 120	AQ 120	-	-						
500	-	AQ 250	AQ 250	-	-						

*Voltage ±10%, frequency ±2%

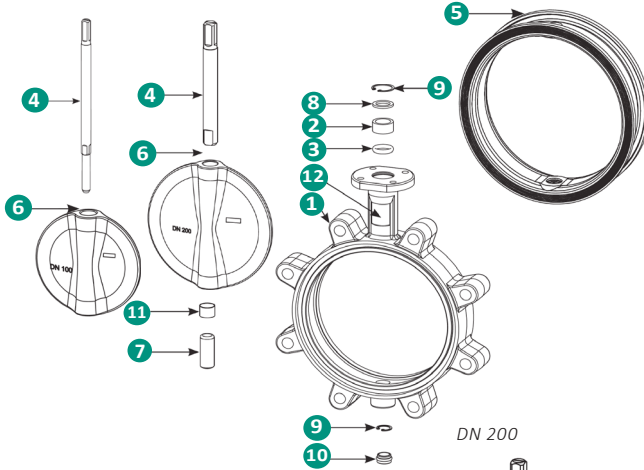
FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Replaceable – Pinless – EN 1092-2

Product Specification

DN 50-100

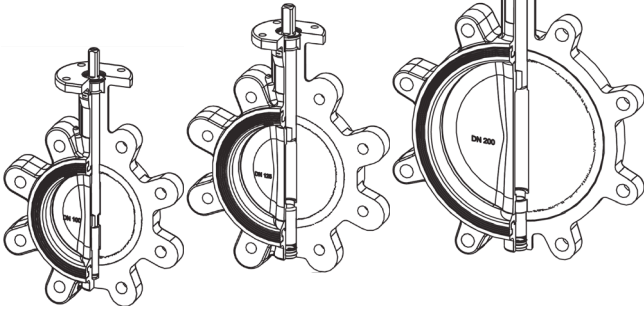
DN 125-150



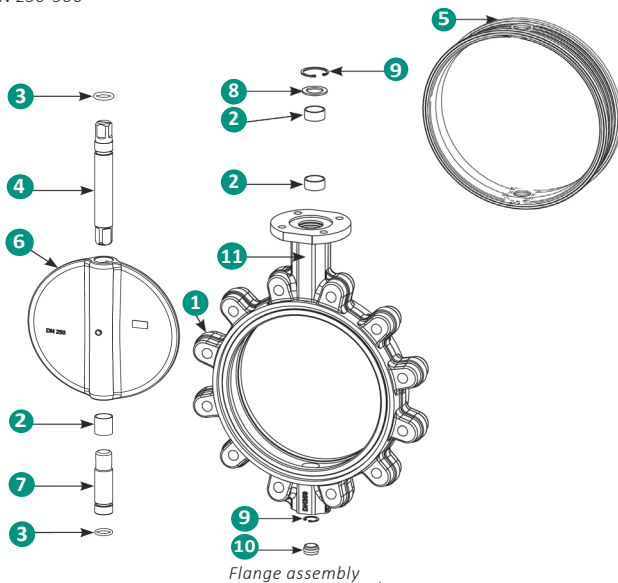
DN 200

DN 50-100

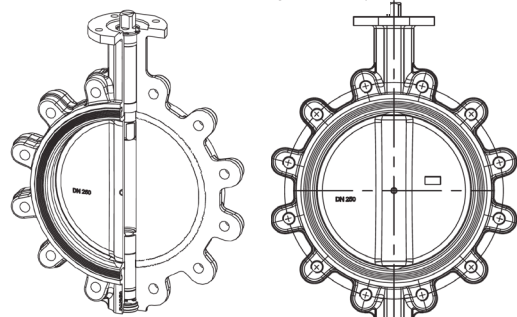
DN 125-150



DN 250-500

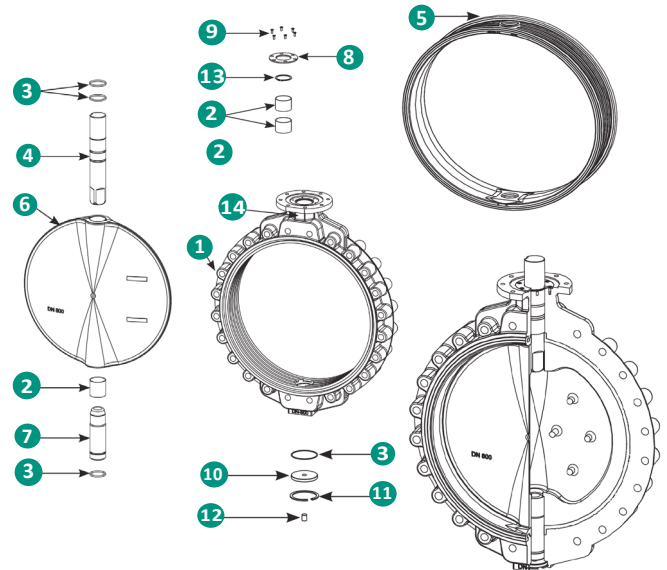


Flange assembly

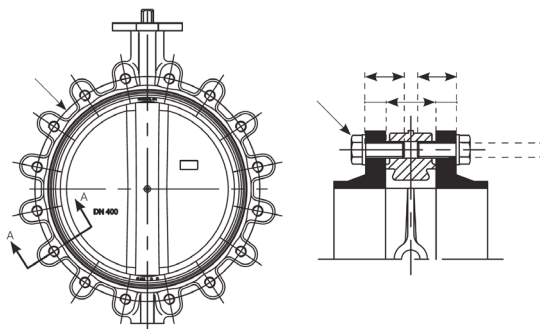


N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Replaceable EPDM
6	Disc	Stainless Steel CF8M
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 600/1000

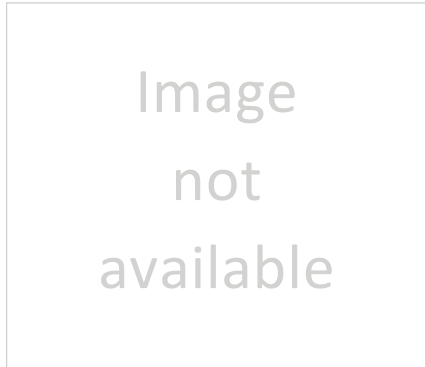


Screwing



FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Vulcanized – Pinless – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Disc: Stainless Steel
- Stem: Stainless Steel
- Seat: Vulcanized EPDM
- Operation: Electrical actuator in Ductile Iron
- Coating: Epoxy
- USP: Maintenance and installation efficient
- Standard: BS EN 593
- Dimensions: Top flange acc. to ISO 5211/NFE 29-402
Face-to-Face acc. to EN 558-1 (series 20)
DIN 3202 T3 K1 - ISO 5752 T5 API 609
BS 5155 series (except DN 350)
- Type: Drilling: PN 16
Shaft: SS AISI 420
Thread: Metric
- Tests: Hydraulic test acc. to 12266/ISO 5208

Field of applications

- Temperature range: -20 to 110 °C
- Max. working pressure: 16 bar

- Water treatment plants and Water distribution
- HVAC (Heat Ventilation Air Conditioning)
- General services
- Irrigation
- Shipbuilding

LUG series

Description

FIVC Lugged Butterfly Valve with its vulcanized seat is designed to be installed in pipelines for isolating or regulating purposes.

With its high quality rotational disc, the valve features quick shut-off function.

Since the valve is pinless, the component is easy to be changed and be maintained at a low cost. Besides, its pinless construction leads to good corrosion resistance.

Furthermore, the valve can by its high quality Bernard Controls actuator be closed and opened precisely because of the non-gap between the shaft and disc.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Alternative Product Versions

Disc	Construction	Seat	Operation
<ul style="list-style-type: none"> • Alu Bronze • Ductile Iron 	<ul style="list-style-type: none"> • w/Pin 	<ul style="list-style-type: none"> • Replaceable • Other seats upon request 	<ul style="list-style-type: none"> • 15° notch hand-lever • Gearbox • Other operations upon request
Drilling	PN	Size	
<ul style="list-style-type: none"> • PN 20 • PN 25 • ANSI 150 	<ul style="list-style-type: none"> • PN 20 (w/pin) • PN 25 (w/pin) 	<ul style="list-style-type: none"> • DN 40+ 	

Product Information

Product code	Size (DN)	General dimensions of bareshaft																		
		A*	B*	C*	D*	E*	F*	G*	H*	J*	L*	Kg	ISO	P*	Q*	R*	S*	T*	Keyway	
																				axb
LUGN50050MSEENV1603	50	120	59.5	43	100	30	11	90	209.5	156	10	2.9	F-07	13	70	4x9	-	-	-	-
LUGN50065MSEENV1603	65	135	66.5	46	108	30	11	90	231.5	175	10	3.3	F-07	13	70	4x9	-	-	-	-
LUGN50080MSEENV1603	80	141	75	46	124	30	11	90	246	185	10	3.6	F-07	13	70	4x9	-	-	-	-
LUGN50100MSEENV1603	100	165	105	52	147.3	30	11	90	300	224	10	6.4	F-07	13	70	4x9	-	-	-	-
LUGN50125MSEENV1603	125	180	125	56	180	33	14	90	338	267	12	9.9	F-07	17	70	4x9	-	-	-	-
LUGN50150MSEENV1603	150	193	136.5	56	206.5	33	14	90	362.5	292	12	10.6	F-07	17	70	4x9	-	-	-	-
LUGN50200MSEENV1603	200	225	171	60	257	33	17	90	429	352	12	17.5	F-07	20.3	70	4x9	-	-	-	-
LUGN50250MSEENV1603	250	282.5	210	68	324	23	17	130	515.5	409	14	26.5	F-10	26.2	102	4x12	3	70	-	-
LUGN50300MSEENV1603	300	308	240	78	383	23	22	130	571	480	14	39.6	F-10	26.2	102	4x12	3	70	-	-
LUGN50350MSEENV1603	350	338.5	263	78	437	31	22	160	632.5	522	18	56.0	F-10	28	102	4x12	3	70	-	-
LUGN50400MSEENV1603	400	380	308	102	486	31	27	160	719	595	17	74.8	F-12	33	125	4x14	4	85	-	-
LUGN50450MSEENV1603	450	380.5	340	114	538	38	36	190	758.5	633	20	101.4	F-14	48	140	4x18	4	100	-	-
LUGN50500MSEENV1603	500	432.5	380	127	613	38	36	210	850.5	717	20	154.4	F-14	48	140	4x18	4	100	-	-
LUGN50600MSEENV1603	600	494	440	154	690	80	60	210	1014	833	24	215.9	F-16	-	165	4x22	5	130	18x11	7
LUGN50700MSEENV1603	700	590	490	165	832	106	65	300	1186	904	30	287	F-25	-	254	8x18	5	200	18x11	7
LUGN50750MSEENV1603	750	590	530	190	836	106	80	300	1226	964	25	370	F-25	-	254	8x18	5	200	22x14	9
LUGN50800MSEENV1603	800	630	565	190	902	106	80	300	1301	1020	28	425.5	F-25	-	254	8x18	5	200	22x14	9
LUGN50900MSEENV1603	900	695	610	203	1010	110	80	350	1415	1120	32	530.5	F-25	-	254	8x18	5	200	22x14	9
LUGN51000MSEENV1603	1000	770	675	216	1116	110	80	350	1555	1246	32	680.7	F-25	-	254	8x18	5	200	22x14	9

*Dimensions are in millimeters

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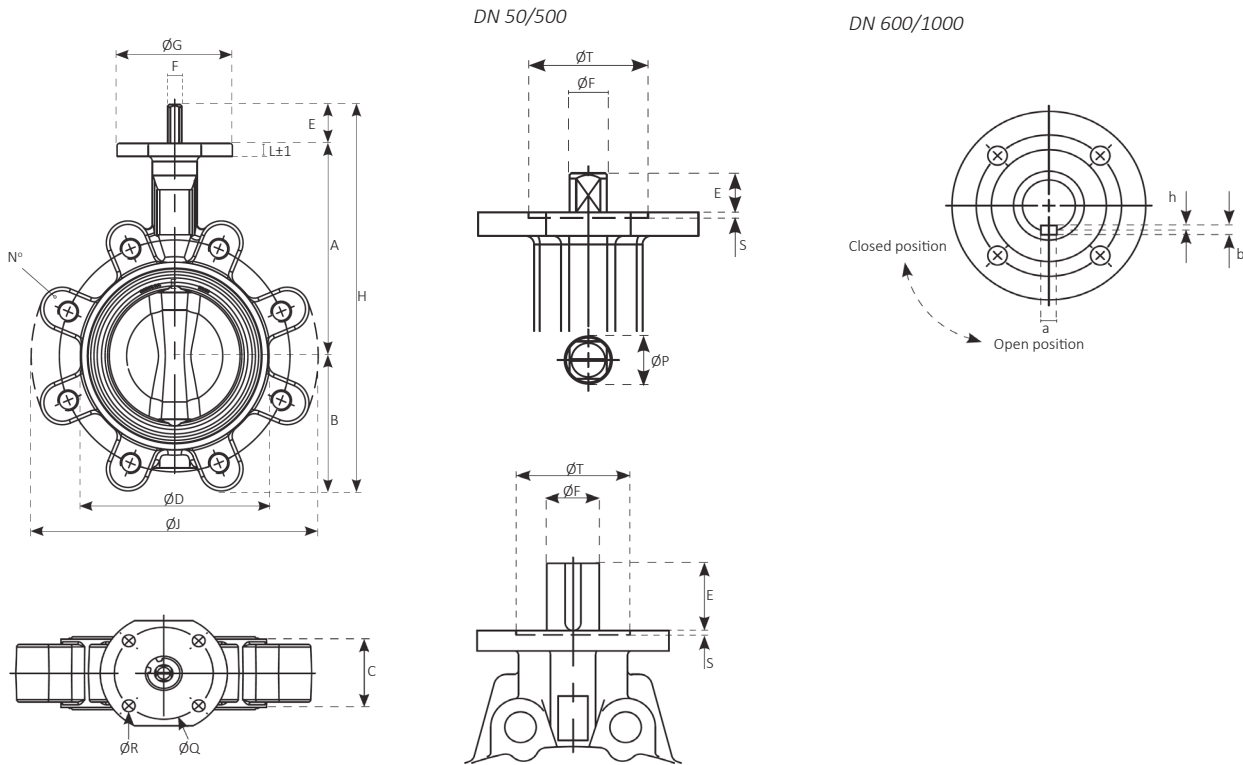
1 / 3

FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Vulcanized – Pinless – EN 1092-2

Dimensions

Bareshaft



Valve with actuator

For actuator details please refer to Bernard Controls catalogue - AQ range

Valve size (DN)	Actuator model				Actuator model	ISO 5211	Max. Torque	Operating time	Power Kw*		Kg	
	PN 6	PN 10	PN 16	PN 25					1x230V 50Hz	3x400V 50Hz		
50	AQ 5	AQ 5	AQ 5	AQ 5	Actuator Dimensions	AQ 5	F07	50 Nm	16 seg.	0.015	0.03	10
65	AQ 5	AQ 5	AQ 5	AQ 5		AQ 10	F07	100 Nm	25 seg.	0.015	0.03	10
80	AQ 5	AQ 5	AQ 5	AQ 10		AQ 15	F07	150 Nm	30 seg.	0.03	0.03	10
100	AQ 5	AQ 5	AQ 5	AQ 10		AQ 25	F07-F10	250 Nm	30 seg.	0.04	0.04	13
125	AQ 10	AQ 10	AQ 15	AQ 15		AQ 50	F07-F10	500 Nm	35 seg.	0.06	0.07	15
150	AQ 10	AQ 15	AQ 15	AQ 25		AQ 80	F10/F12	800 Nm	60 seg.	0.06	0.07	-
200	AQ 15	AQ 15	AQ 25	AQ 50		AQ 120	F12 or F14	1200 Nm	50 / 80 / 155 seg.	0.06	0.07	-
250	AQ 25	AQ 50	AQ 50	AQ 80		AQ 250	F12 or F14	2500 Nm	70 / 105 / 185 seg.	0.06	0.07	-
300	AQ 50	AQ 50	AQ 50	-		-	-	-	-	-	-	-
350	AQ 50	AQ 80	AQ 120	-		-	-	-	-	-	-	-
400	-	AQ 120	AQ 120	-	-	-	-	-	-	-	-	
500	-	AQ 250	AQ 250	-	-	-	-	-	-	-	-	

*Voltage ±10%, frequency ±2%

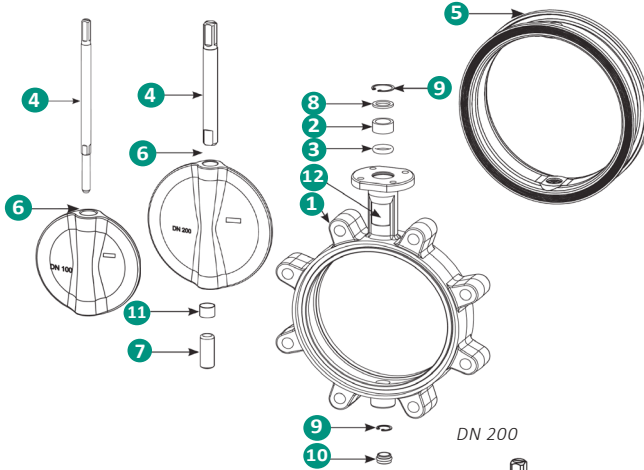
FIVC Butterfly Valve

Ductile Iron – PN 16 – Lugged – Actuator – Vulcanized – Pinless – EN 1092-2

Product Specification

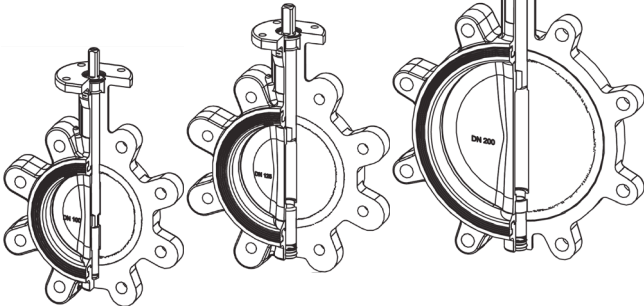
DN 50-100

DN 125-150

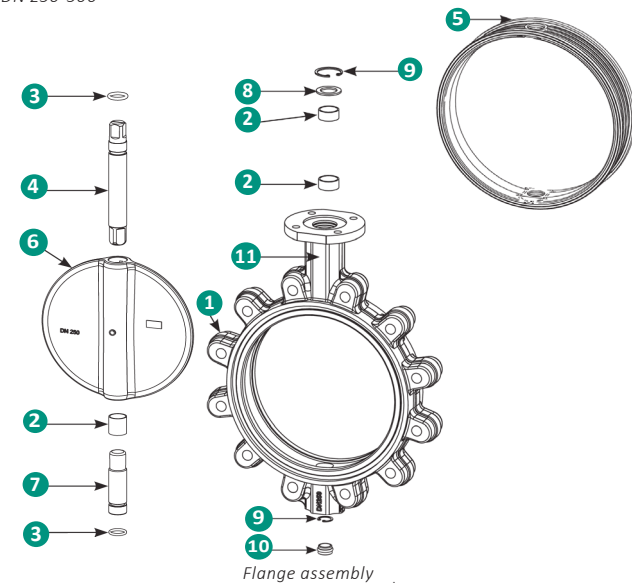


DN 50-100

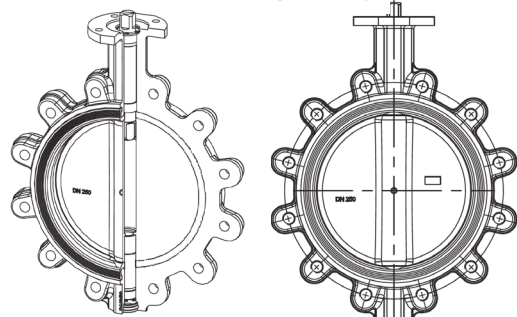
DN 125-150



DN 250-500

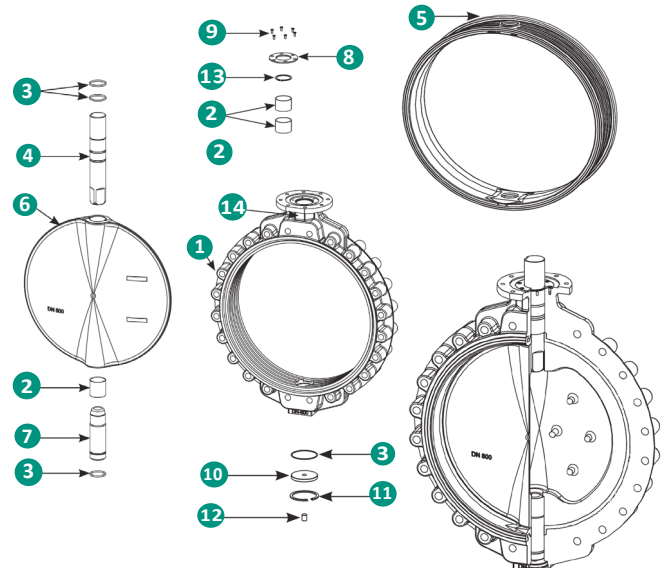


Flange assembly

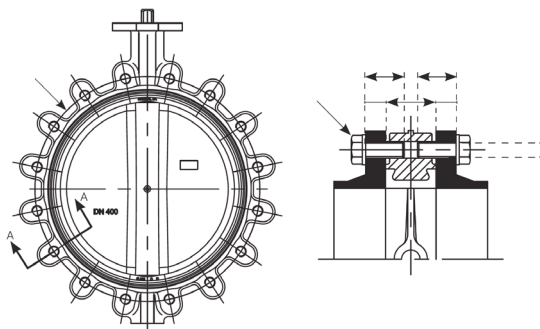


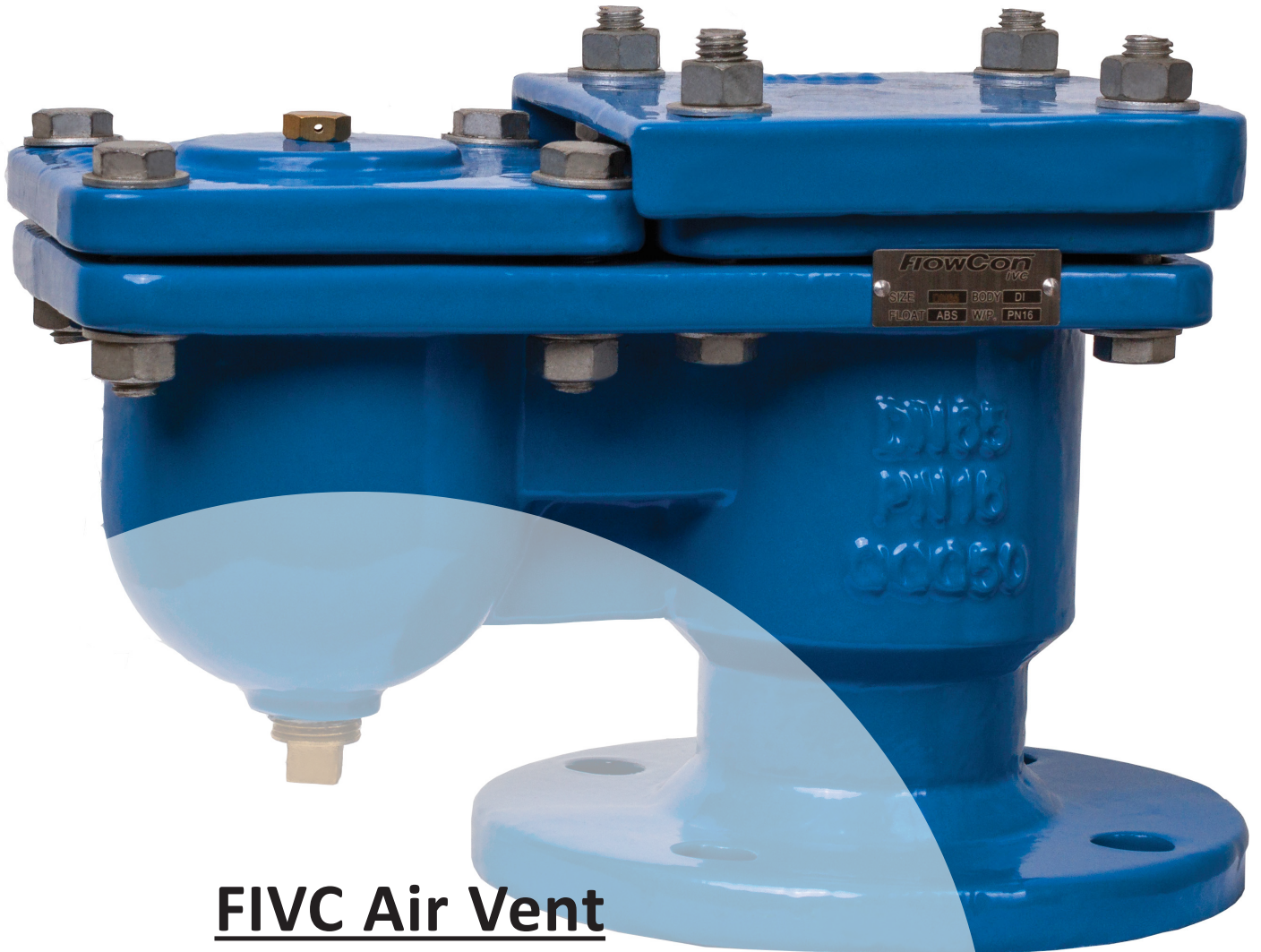
N°	Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Bushing	Acetal Delrin
3	O-Ring	Nitrile
4	Upper shaft	Stainless Steel AISI 420
5	Seat	Vulcanized EPDM
6	Disc	Stainless Steel CF8M
7	Lower shaft	Stainless Steel AISI 420
8	Retaining ring	Zinc-plated Steel
9	Seeger ring	Zinc-plated Steel
10	Lower plug	EPDM
11	Bushing	Steel, Bronze, PTFE
12	Features Tag	Polyester

DN 600/1000



Screwing





FIVC Air Vent

Single action
Double action
Triple action

FIVC Automatic Air Vent

Brass – PN 7 – Single Action – ISO 228



FAV series

Technical data

Main features and materials

- Body: Brass CW617N
- Disc spring: Stainless Steel
- O-Ring: EPDM
- Internal float: PP-H
- Stem: Brass CW614N
- Handle: PTFE
- USP: Single action; Releases accumulated air.
Compact settlement

Field of applications

- Temperature range: 5 to 120 °C
- Max. working pressure: 14 bar
- Max. pressure of airvent operation: 7 bar
- Compatible fluids: Water and glycol solutions
(Max. 50 % concentration of glycol)
 - Hot and cold water plants
 - Industrial Technologies
 - Heat and refrigerating
 - Engineering and air-conditioning

Description

FIVC Automatic Air Vent is designed as a single action valve with a small orifice to releases low volumes of air when the line is under pressure.

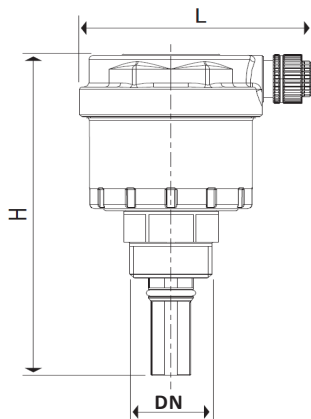
Benefits of using the FIVC Air Vent are its contribution for an efficient flow, since air pockets lead to restrictions of the flow, hence unnecessary head loss and sometimes also flow stop. The Air Vent does have a reliable operation that reduces the water hammer incidents.

The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

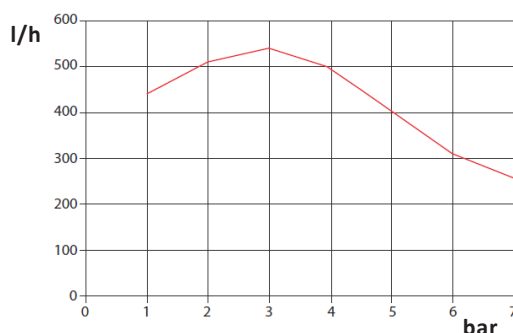
Product code	Size (DN)	L*	H*	Kg
FAV038B7	10	47	81	0.13
FAV015B7	15	47	81	0.15

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass
2	Disc spring	Stainless Steel
3	O-Ring	EPDM

Performance



Pressure (bar)	Air capacity (l/h)
1	440
2	510
3	540
4	500
5	400
6	310
7	250

The graph reports the air capacities in discharge, in standard conditions at the change of the relative pressure of the system.

FIVC Automatic Air Vent

Brass – PN 10 – Single Action – ISO 228



FAV series

Technical data

Main features and materials

- Body: Brass CW614N
- Disc spring: Stainless Steel
- O-Ring: NBR
- Internal float: Polytene
- Stem: Brass CW614N
- Gasket: NBR
- USP: Single action; Releases accumulated air.
Compact settlement

Field of applications

- Max. temperature: 70 °C
- Max. working pressure: 10 bar
- Compatible fluids: Water

- Hot and cold water plants
- Industrial Technologies
- Heat and refrigerating
- Engineering and air-conditioning

Description

FIVC Automatic Air Vent is designed as a single action valve with a small orifice to releases low volumes of air when the line is under pressure.

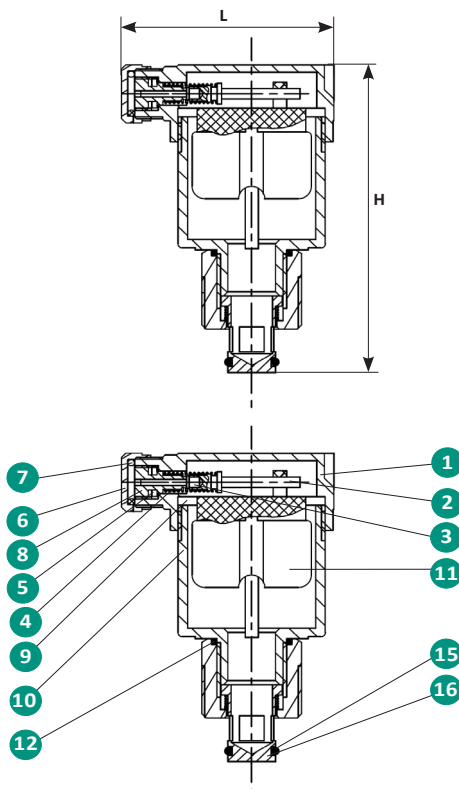
Benefits of using the FIVC Air Vent are its contribution for an efficient flow, since air pockets lead to restrictions of the flow, hence unnecessary head loss and sometimes also flow stop. The Air Vent does have a reliable operation that reduces the water hammer incidents.

The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	L*	H*	Kg
FAV015B1021	15	50	68	-
FAV020B1021	20	50	68	-
FAV025B1021	25	50	68.7	-

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Cap	Brass CW614N
2	Stem	Brass CW614N
3	Gasket	NBR
4	Spring	Stainless Steel SS 304
5, 7, 9, 12, 15	O-Rings	NBR
6	Air cap	Brass CW614N
8	Core	Brass CW614N
10	Body	Brass CW614N
11	Floater	Polytene
13	Connector	Brass CW614N
14	Spring	Stainless Steel SS 304
16	Disc	Brass CW614N

FIVC Air Vent

Ductile Iron – PN 16 – Single Action – Screwed



FAI series

Technical data

Main features and materials

- Body: Ductile Iron
- Float: Stainless Steel
- Gasket: Viton
- Cover: Grey Cast Iron
- Plug: Steel
- Pin: Steel
- USP: Single action; Releases accumulated air
Compact settlement

Field of applications

- Temperature range: -10 to 100 °C
- Max. working pressure: 16 bar

- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

The FIVC Air Vent is designed as a single action valve with a small orifice to releases low volumes of air when the line is under pressure.

Benefits of using the Air Vent are its contribution for an efficient flow since air pockets lead to restrictions of the flow, hence unnecessary head loss and sometimes also flow stop.

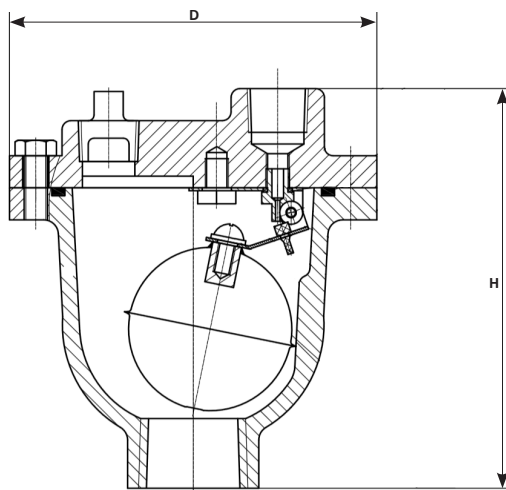
The Air Vent does have a reliable operation that reduces the water hammer incidents.

The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	Inlet**	Orifice*	D*	H*	Kg
FAI015N16BS230	15	15	15	125	137	-
FAI020N16BS230	20	20	15	125	137	-
FAI025N16BS230	25	25	15	125	137	-

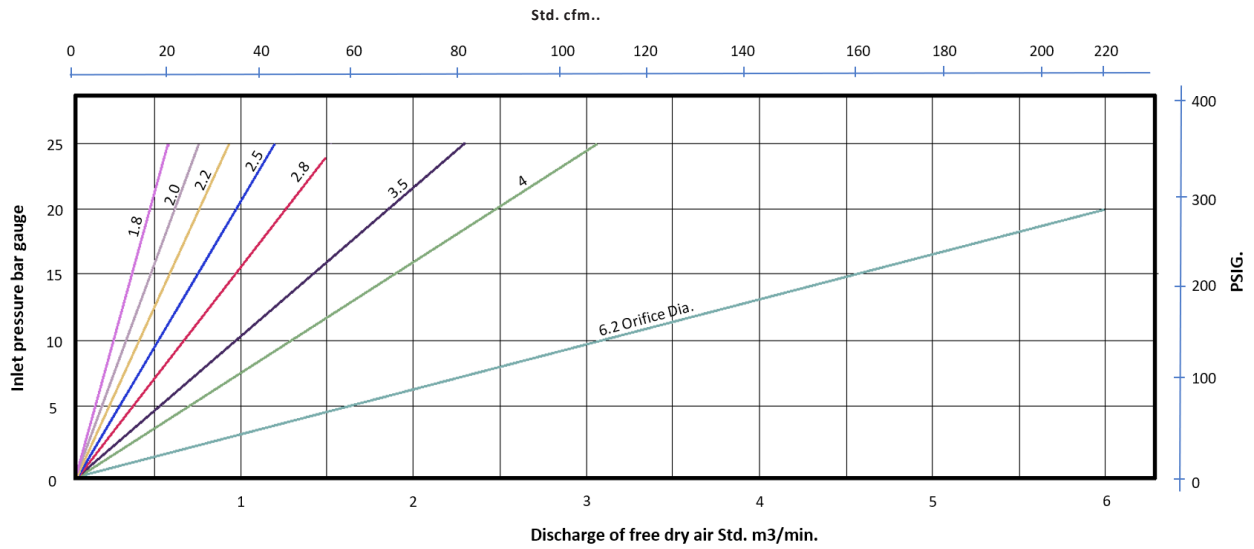
*Dimensions are in millimeters

FIVC Air Vent

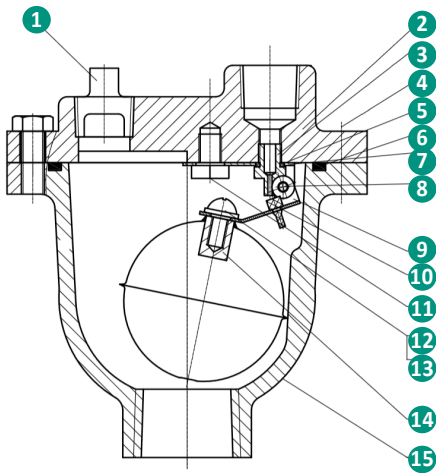
Ductile Iron – PN 16 – Single Action – Screwed

Air Discharge Charts

Small orifice



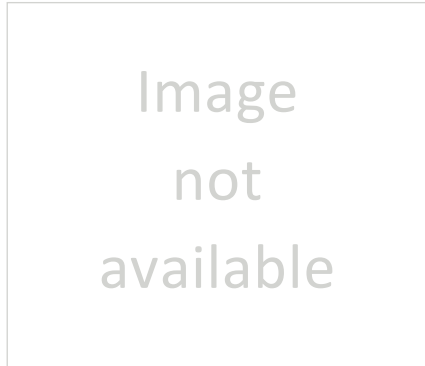
Product Specification



N°	Name	Material
1	Plug	Steel
2	Cover	Grey Cast Iron
3	Seal seat	Stainless Steel SS 316
4	Bolt	Steel
5	Gasket	Viton
6	Seal ring	Viton
7	lever	Stainless Steel SS 316
8	Pin	Steel
9	Float arm	Stainless Steel SS 316
10	Seal plug	Viton
11	bolt	Steel
12	Screw	Steel
13	Washer	65Mn
14	Float	Stainless Steel SS 304
15	Body	Ductile Iron

FIVC Air Vent

Grey Cast Iron – PN 16 – Double Action – EN 1092-2



FAI series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Bonnet: Grey Cast Iron
- Float: Stainless Steel
- Stem: Stainless Steel
- Float gasket: EPDM
- Cup: ABS
- USP: High tightness
Compact settlement
Environment-friendly
No maintenance

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 16 bar
- Industrial Water
- De-aeration of water pipeline
- Montage in the highest point of the pipeline

Description

The FIVC Air Vent is designed as a double action air valve to discharge volumes of air during the filling or charging of the system and to admit air into the system during system drainage, valve or pump shut-off or at water column separation. Benefits of using the FIVC Air Vent are its contribution for an efficient flow since air pockets lead to restrictions of the flow, hence unnecessary head loss and sometimes also flow stop.

Air pockets do also lead to water hammer that can damage equipment including other valves in the pipeline.

The FIVC Air Vent does have a reliable operation that reduces the water hammer incidents.

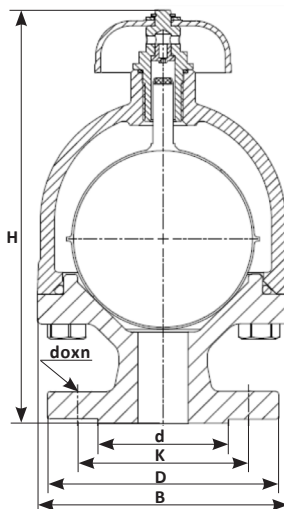
The valve can be used for water.

Declaration

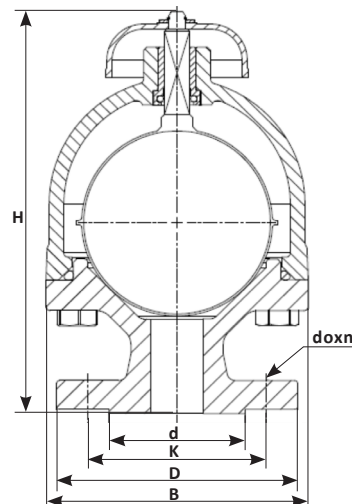
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014, and is CE marked.

Dimensions

Type 09



Type 19



Product Information

Product code		Size (DN)	B*	D*	K*	d*	doxn	H(1)		Kg
Type 09	Type 19							Type 09	Type 19	
FAI025C16BD09	FAI025C16BD19	25	122	115	85	65	14x4	210	205	5.0

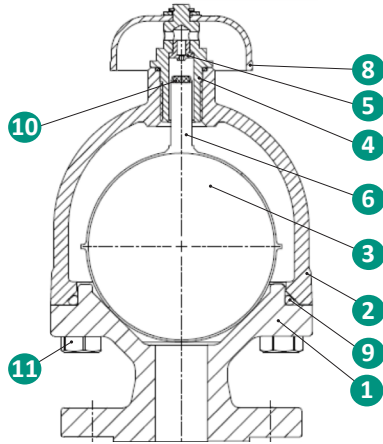
*Dimensions are in millimeters

FIVC Air Vent

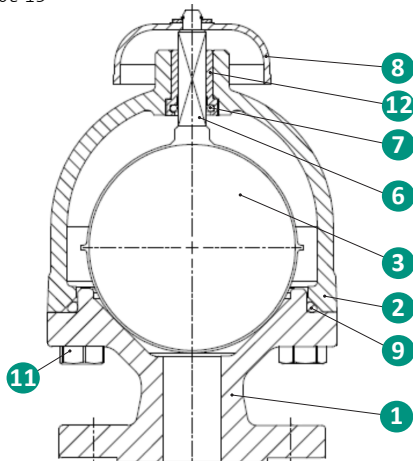
Grey Cast Iron – PN 16 – Double Action – EN 1092-2

Product Specification

Type 09



Type 19



N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Bonnet	Grey Cast Iron EN-GJL-250 JL 1040
3	Float	Stainless Steel X5CrNi 18-10 1.4301
4	Screw plug	Stainless Steel X20Cr13 1.4021 <i>(Only for version 09)</i>
5	Nozzle	CuZn40 Mn1.5 <i>(Only for version 09)</i>
6	Stem	Stainless Steel X5CrNi 18-10 1.4301
7	Packing ring	EPDM <i>(Only for version 19)</i>
8	Cup	ABS
9	Packing ring	EPDM
10	Float gasket	EPDM
11	Bolt	8.8 - A2A
12	Sleeve	Stainless Steel X5CrNi 18-10 1.4301 <i>(Only for version 19)</i>

FIVC Triple Duty Air Vent

Ductile Iron – PN 16 – Triple Action – EN 1092-2



Technical data

Main features and materials

- Body: Ductile Iron
- Float ball: ABS plastic
- Gasket: EPDM
- Dust cap: Ductile Iron
- Ball seal large orifice: EPDM
- Screw plug: Brass
- USP: Triple action; Releases accumulated air, discharges and admits air during filling and/or draining. Compact settlement
- Standard: JKR 20200-0043-99
- Dimensions: EN 1092-2

Field of applications

- Max. temperature: 100 °C
- Max. working pressure: 16 bar

FAI series

- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

The FIVC Triple Duty Air Vacuum Vent is designed as a triple action valve to discharge large volumes of air during the filling and/or to admit air into the system during system drainage, valve or pump shut-off or at water column separation. Further, the orifice in the automatic valve releases large volumes of air at high flow rates when the line is under pressure.

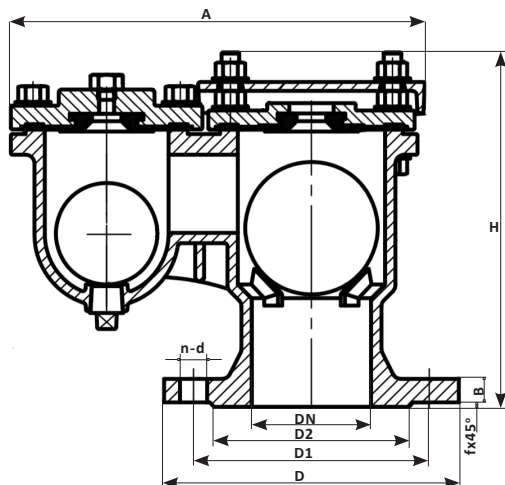
Benefits of using the Triple Duty Air Vent are its contribution for an efficient flow since air pockets lead to restrictions of the flow, hence unnecessary head loss and sometimes also flow stop. Air pockets do also lead to water hammer that

can damage equipment including other valves in the pipeline. Further, the Triple Duty Air Vent does have a reliable operation that reduces the water hammer incidents. The valve can be used for Water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, Schedule 4, Module H, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

Product code	Size (DN)	D*	D1*	D2*	B*	f*	n-d*	H*	A*	Kg
FAI040N16BT230	40	150	110	84	19	3	4-19	187	224	-
FAI050N16BT230	50	165	125	99	19	3	4-19	214	273	-
FAI065N16BT230	65	185	145	118	19	3	4-19	214	273	-
FAI080N16BT230	80	200	160	132	19	3	8-19	244	283	-
FAI100N16BT230	100	220	180	156	19	3	8-19	270	302	-
FAI125N16BT230	125	250	210	184	19	3	8-19	323	353	-
FAI150N16BT230	150	285	240	211	19	3	8-23	323	353	-
FAI200N16BT230	200	340	295	266	20	3	12-23	401	433	-
FAI250N16BT230	250	405	355	319	22	3	12-28	450	491	-

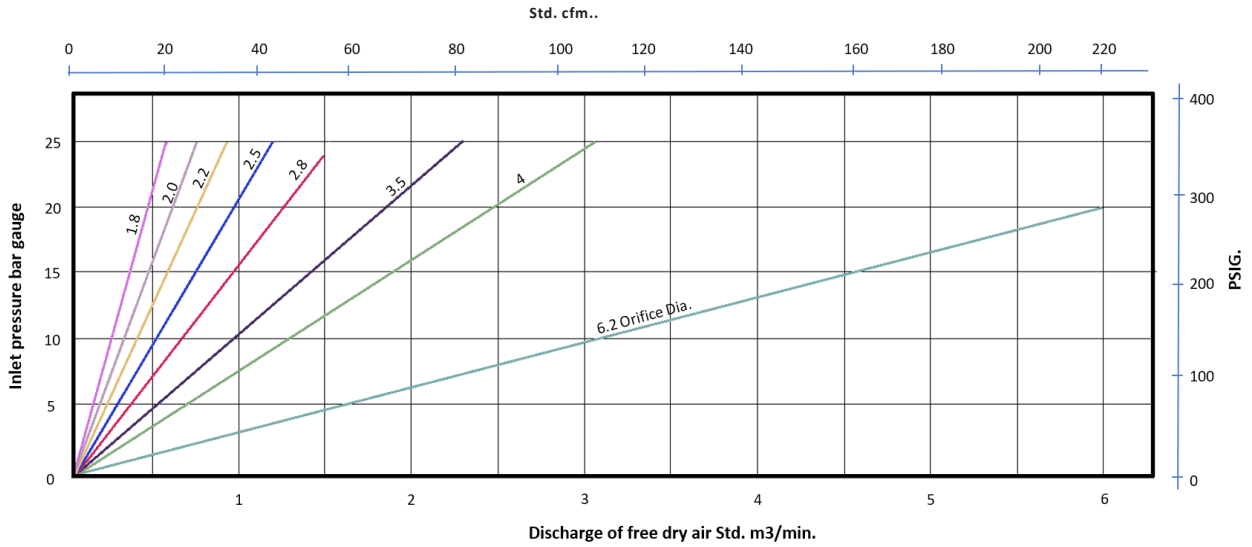
*Dimensions are in millimeters

FIVC Triple Duty Air Vent

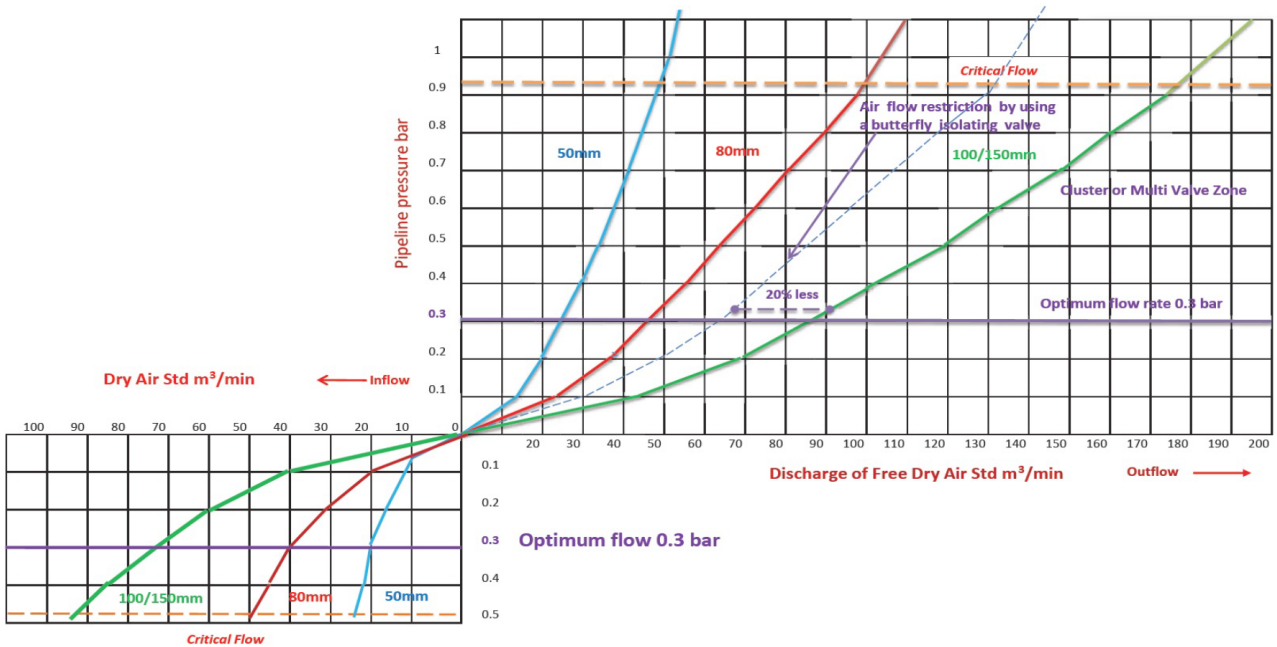
Ductile Iron – PN 16 – Triple Action – EN 1092-2

Air Discharge Charts

Small orifice



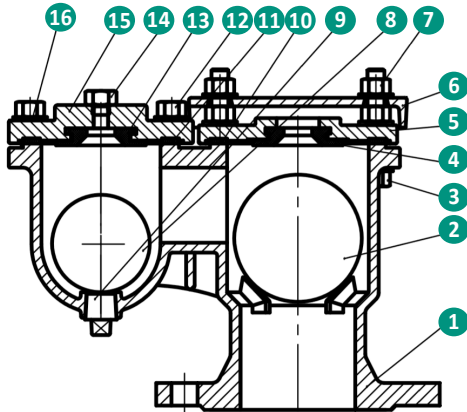
Large orifice



FIVC Triple Duty Air Vent

Ductile Iron – PN 16 – Triple Action – EN 1092-2

Product Specification



N°	Name	Material
1	Body	Ductile Iron
2	Float ball	ABS plastic
3	Bolt	Steel
4	Ball seal large orifice	EPDM
5	Large orifice cover	Ductile Iron
6	Dust cap	Ductile Iron
7	Nut	Steel
8	Washer	Steel
9	Float ball	ABS plastic
10	Screw plug	Brass
11	Ball seal large orifice	EPDM
12	Gasket	EPDM
13	Bolt	Steel
14	Seal orifice	EPDM
15	Screw plug	Brass
16	Small orifice cover	Ductile Iron
17	Nut	Steel
18	Washer	Steel

FIVC Triple Duty Air Vacuum Vent Ductile Iron – Triple Action – PN 16 – EN 1092-2



FAIV series

Technical data

Main features and materials

- Body: Ductile Iron and Polyamide
- Cover: Ductile Iron
- O-Ring: NBR rubber
- Orifice seal: EPDM
- Orifice seat: Bronze
- USP: Triple action; Releases accumulated air, discharges and admits air during filling and/or draining. DVGW approved. Allows for high velocity air discharge while preventing premature closure. High-strength composite material.
- Standard: EN 1074-4
- Tests/Approvals: Hydraulic test acc. to EN 1074-1 and 4 / EN 12266. DIN-DVGW Certificate NW-6215BS5030

Field of applications

- Max. temperature: 60 °C (temporarily up to 90 °C)
- Max. working pressure: 16 bar
- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

The FIVC Triple Duty Air Vacuum Vent is designed as a triple action valve to discharge large volumes of air during the filling and/or to admit air into the system during system drainage, valve or pump shut-off or at water column separation. Further, the orifice in the automatic valve releases large volumes of air at high flow rates when the line is under pressure. The enlarged orifice is less exposed to obstruction by debris. The valve will open to relieve negative pressures whenever water column separation occurs.

Benefits of using the Triple Duty Air Vacuum Vent are its contribution for an efficient flow since air pockets lead to restrictions of the flow, hence unnecessary head loss and sometimes also flow stop. Air pockets do also lead to water hammer that can damage equipment including other valves in the pipeline. The Triple Duty Air Vacuum Vent does have a reliable operation that reduces the water hammer inci-

dents. The valve's dynamic design allows for high velocity air discharge while preventing premature closure. Furthermore, the special orifice seat is designed with a combination of Bronze and EPDM rubber that ensures long-term maintenance-free operation. Besides, the valve is designed with a discharge outlet that enables removal of excess fluids. Moreover, the automatic valve's rolling seal mechanism design is less sensitive to different pressures than a direct float seal, thus enabling a one size orifice for a wide pressure range. The valve is designed as flanged or BSP thread. The valve can be used for water and neutral liquids.

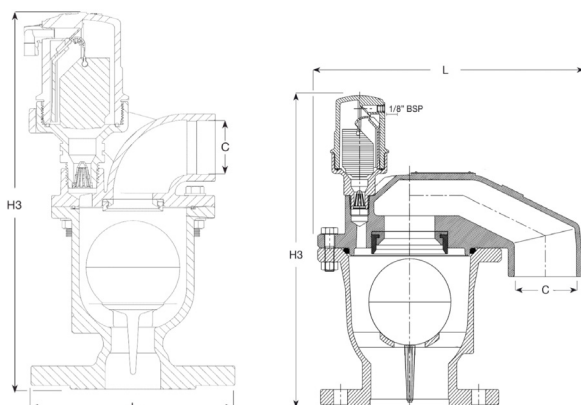
Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions

DN 50-80

DN 100-300



Product Information

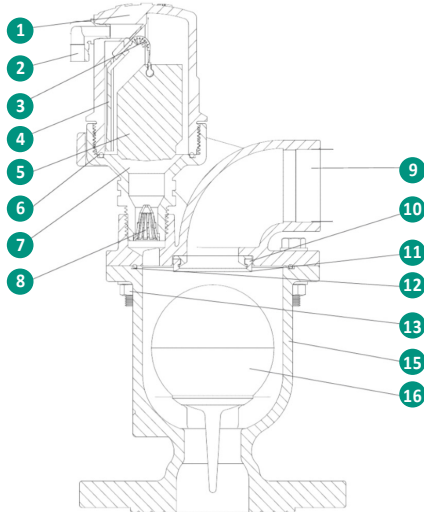
Product code	Size (DN)	PN	Connection	L*	H3*	C	Kg
FAIV050N16BT92	50	16	50 mm	173	293	40 BSP	6.4
FAIV051N16BT92	50		50 BSP	173	306	40 BSP	4.3
FAIV080N16BT92	80		80 mm	211	328	50 BSP	13
FAIV081N16BT92	80		80 BSP	205	339	50 BSP	10
FAIV100N16BT92	100	10	-	382	324	63.5 mm	26
FAIV150N16BT92	150		-	399	432	90 mm	43
FAIV200N10BT92	200	10	-	553	554	90 mm	117
FAIV200N16BT92	200	16	-	755	602	90 mm	117
FAIV250N10BT92	250	10	-	463	718	124 mm	150
FAIV250N16BT92	250	16	-	463	718	124 mm	150
FAIV300N10BT92	300	10	-	586	846	-	162
FAIV300N16BT92	300	16	-	586	846	-	162

*Dimensions are in millimeters

FIVC Triple Duty Air Vacuum Vent Ductile Iron – Triple Action – PN 16 – EN 1092-2

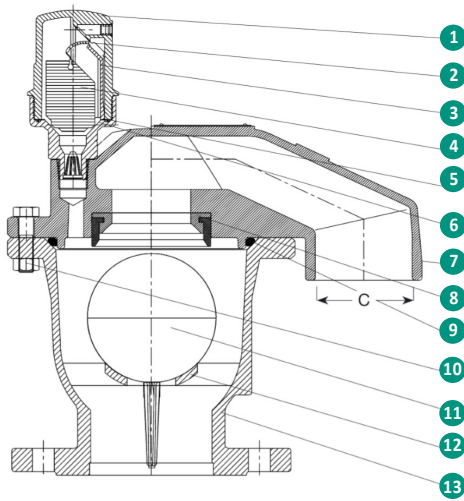
Product Specification

DN 50-80



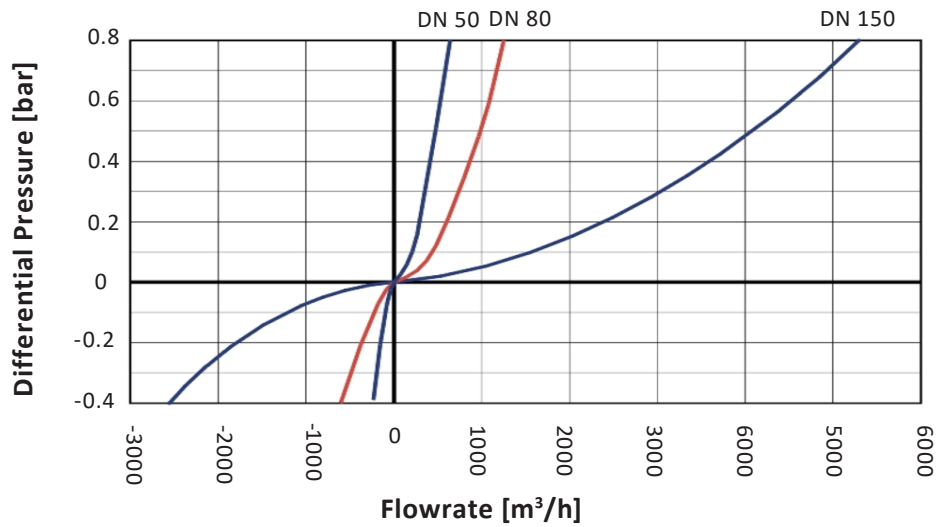
N°	Name	Material
1	Body	Polyamide, reinforced
2	Discharge outlet	Polypropylene
3	Rolling seal	EPDM rubber
4	Clamping key	Polyamide, reinforced
5	Float	Foramed Polypropylene
6	O-Ring	NBR rubber
7	Base	Polyamide, reinforced
8	Strainer	Polyamide
9	Cover	Ductile Iron
10	Orifice seat	Bronze
11	Orifice seal	EPDM rubber
12	O-Ring	NBR rubber
13	Bolt assembly	Steel, Zinc-plated
14	Body	Ductile Iron
15	Float	Polycarbonate

DN 100-300

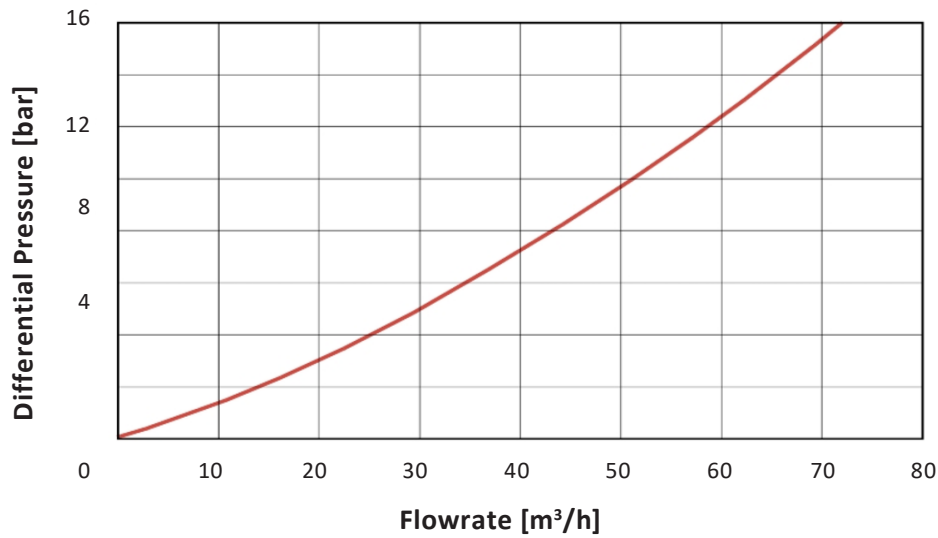


FIVC Triple Duty Air Vacuum Vent Ductile Iron – Triple Action – PN 16 – EN 1092-2

Air and Vacuum Flow Rate



Air Release Flow Rate





FIVC Bottom Valve

FIVC Bottom Valve

Brass – PN 10 – ISO 228



FFV series

Technical data

Main features and materials

- Body: Brass CW614N
- Gasket: Fiber
- Cover: Brass CW614N
- Disc: Brass CW614N
- Disc face: NBR
- USP: Works for Water, Oil, and Gas.

Field of applications

- Max. temperature: 110 °C
- Max. working pressure: 10 bar

- Industrial cold/hot water plants
- Compressed air plants
- Industrial technologies
- Heat engineering
- Refrigeration and air conditioning

Description

FIVC Bottom Valve is designed to replace a check valve, eliminating the return of pressurized fluid, and at the same time as a strainer that collects and prevents solid impurities from entering the pipeline.

Benefits of using the bottom valve include its protection to the most sensitive plant components such as pumps, control valves, flow, and heat meters from malfunction and damage. Further, the valve does prevent improper pump functionality and media loss due to otherwise media flowing backwards. The valve can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

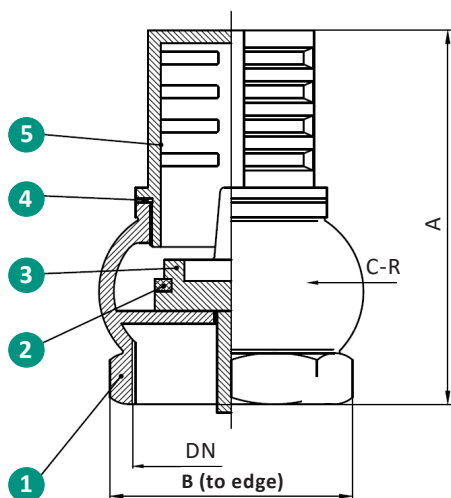
Other Standards

ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	C-R*	Kg
FFV015B10S21	15	60	26	19.5	0.145
FFV020B10S21	20	67	32	22.25	0.21
FFV025B10S21	25	74	38	24	0.25
FFV032B10S21	32	92	47	29.75	0.39
FFV040B10S21	40	99	53	34	0.555
FFV050B10S21	50	117	65	40	0.87

*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Brass CW614N
2	Disc face	NBR
3	Disc	Brass CW614N
4	Gasket	Fiber
5	Cover	Brass CW614N

FIVC Bottom Valve

Bronze – PN 10 – ISO 228



FFV series

Technical data

Main features and materials

- Body: Bronze CC491K
- Gasket: Fiber
- Cover: Bronze CC491K
- Disc: Brass CW614N
- Disc face: NBR
- USP: Works for Water, Oil, and Gas

Field of applications

- Max. temperature: 110 °C
- Max. working pressure: 10 bar

- Industrial cold/hot water plants
- Compressed air plants
- Industrial technologies
- Heat engineering
- Refrigeration and air conditioning

Description

FIVC Bottom Valve is designed to replace a check valve, eliminating the return of pressurized fluid, and at the same time as a strainer that collects and prevents solid impurities from entering the pipeline.

Benefits of using the bottom valve include its protection to the most sensitive plant components such as pumps, control valves, flow, and heat meters from malfunction and damage. Further, the valve does prevent improper pump functionality and media loss due to otherwise media flowing backwards. The valve can be used for Water, Oil, and Gas respectively.

Alternative Product Versions

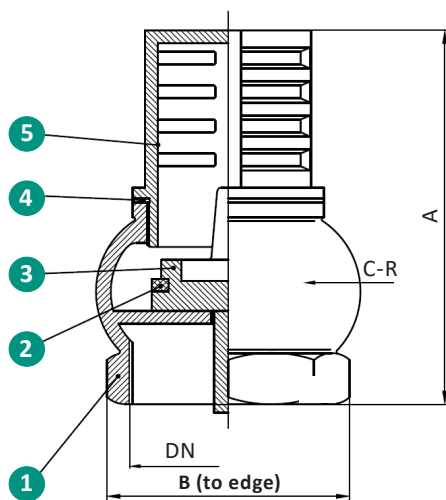
Other Standards

ANSI • ASME B1.20.1 • NPT
ISO 7/1 threads

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Dimensions



Product Information

Product code	Size (DN)	A*	B*	C-R*	Kg
FFV015O10S21	15	60	26	19.5	-
FFV020O10S21	20	67	32	22.25	-
FFV025O10S21	25	74	38	24	-
FFV032O10S21	32	92	47	29.75	-
FFV040O10S21	40	99	53	34	-
FFV050O10S21	50	117	65	40	-

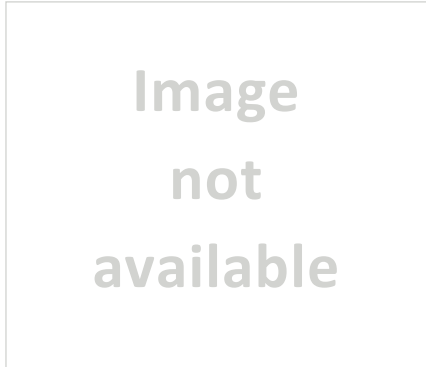
*Dimensions are in millimeters

Product Specification

N°	Name	Material
1	Body	Bronze CC491K
2	Disc face	NBR
3	Disc	Brass CW614N
4	Gasket	Fiber
5	Cover	Bronze CC491K

FIVC Bottom Valve

Grey Cast Iron – PN 10 – EN 1092-2



FFV series

Technical data

Main features and materials

- Body: Grey Cast Iron
- Cover: Grey Cast Iron
- Disc: Grey Cast Iron
- Stem: Stainless Steel
- Screen: Stainless Steel
- USP: Compact settlement
Environment-friendly
No maintenance
High tightness - Leakproof class A acc. to EN 12266-1

Field of applications

- Max. temperature: -10 to 90 °C
- Max. working pressure: 10 bar
- Petrochemical industry
- Shipyard industry
- Compressed air
- Textile industry
- Mechanical industry
- Other various industries

Description

FIVC Bottom Valve is designed as a single-direction device, which eliminates the return of pressurized fluid concurrently with the collection of solid impurities from entering the pipeline. Benefits of using a bottom valve is the valve's ability to close silently with help of its preloaded spring, preventing the water hammer phenomenon. Besides, the valve prevents impurities that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters.

Further, the valve ensures reliability without manual operation or energy performance. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency.

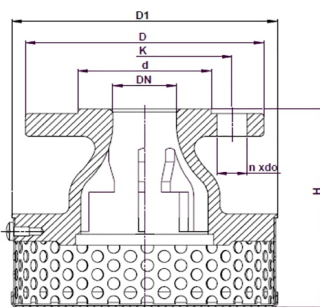
The valve can be used for water.

Declaration

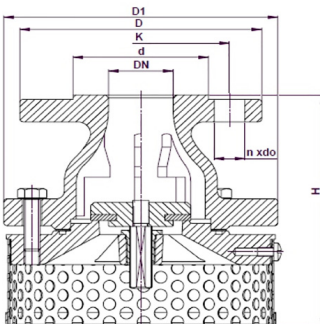
The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions

Type 03 - without non-return disc



Type 09 - with non-return disc



Product Information

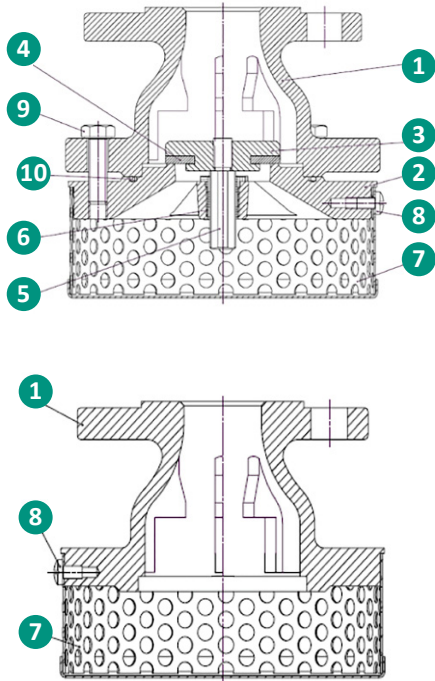
Product code		Size	D1*	D*	K*	d*	do*	n*	H*		Kv	Kg	
Type 03	Type 09								03	09		03	09
FFV040C10B03	FFV040C10B09	40	170	150	110	84	19	4	132	155	30.9	5.0	8.5
FFV050C10B03	FFV050C10B09	50	180	165	125	99	19	4	152	175	39.2	6.0	9.5
FFV065C10B03	FFV065C10B09	65	200	185	145	118	19	4	192	215	80.1	8.0	12.5
FFV080C10B03	FFV080C10B09	80	240	200	160	132	19	8	240	265	123.6	11.0	18.0
FFV100C10B03	FFV100C10B09	100	270	220	180	156	19	8	290	315	201.0	15.0	26.0
FFV125C10B03	FFV125C10B09	125	310	250	210	184	19	8	310	335	301.6	21.0	32.0
FFV150C10B03	FFV150C10B09	150	360	285	240	211	23	8	390	415	435.0	29.0	43.0
FFV200C10B03	FFV200C10B09	200	440	340	295	266	23	8	470	500	805.0	45.0	74.0
FFV250C10B03	FFV250C10B09	250	520	395	350	316	23	12	595	625	1040	74.0	107.0
FFV300C10B03	FFV300C10B09	300	570	445	400	370	23	12	755	785	1800	88.0	150.0

*Dimensions are in millimeters

FIVC Bottom Valve

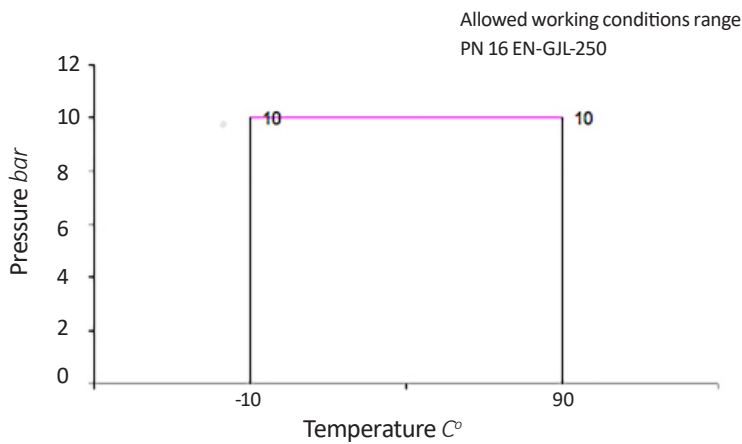
Grey Cast Iron – PN 10 – EN 1092-2

Product Specification



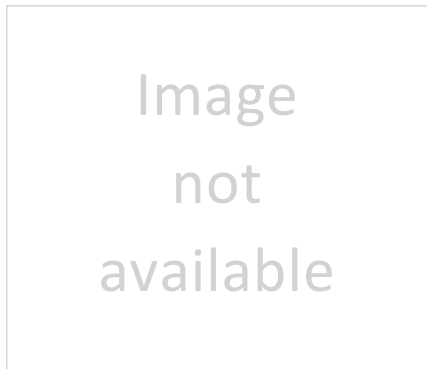
N°	Name	Material
1	Body	Grey Cast Iron EN-GJL-250 JL 1040
2	Cover	Grey Cast Iron EN-GJL-250 JL 1040
3	Disc	Grey Cast Iron EN-GJL-250 JL 1040
4	Disc gasket	EPDM
5	Stem	Stainless Steel Xx20Cr13 1.4021
6	Sleeve	Brass CuZn40Pb2
7	Screen	Stainless Steel X5CrNi18-10 1.4301
8	Screw	A2-70
9	Hexagon bolt	8.8-A2A
10	Packing ring	EPDM

Pressure-Temperature Ratings



FIVC Bottom Valve

Grey Cast Iron – PN 16 – Wafer – EN 1092-2



Technical data

Main features and materials

- Body: Grey Cast Iron
- Guide: Ductile Iron
- Disc: Ductile Iron
- Guiding stem: Copper Alloy
- Spring: Stainless Steel
- Seal: EPDM
- Screen: Carbon Steel
- USP: Silent closing
Cost- and maintenance efficient
Low head loss

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar
DN 250-300: 10 bar

FFV series

- Petrochemical industry
- Irrigation systems
- Mining and infrastructure industries
- Shipyard industry
- Compressed air
- Low-pressure steam plants
- Mechanical industry
- Steam applications
- Hot and cold water plants
- Air conditioning systems

Description

FIVC Bottom Valve is designed as a single-direction device, which eliminates the return of pressurized fluid concurrently with the collection of solid impurities from entering the pipeline. Benefits of using a bottom valve is the valve's ability to close silently with help of its preloaded spring, preventing the water hammer phenomenon. Besides, the valve prevents impurities that can cause malfunction and damage to the most sensitive plant components such as pumps, control valves, flow, and heat meters.

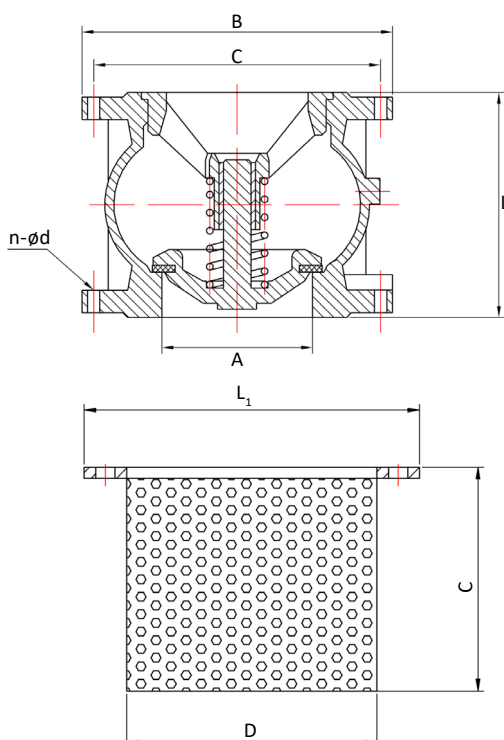
Further, the valve ensures reliability without manual operation or energy performance. With its innovative construction, the valve features several benefits and provides cost-, maintenance, and installation efficiency.

The valve can be used for water.

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

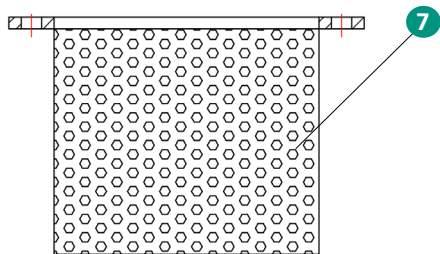
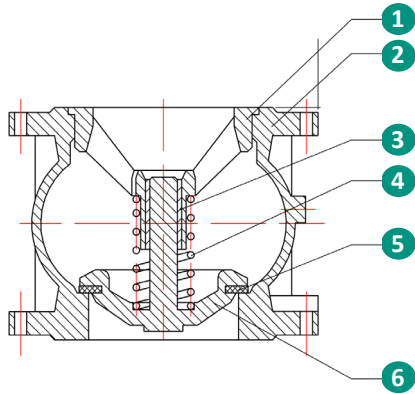
Product code	Size (DN)	L*	A*	B*	C*	n-ød*	L ₁ *	C*	D*	Kg
FFV050C16SC220	50	100	50	165	125	4-18.5	156	80	111	-
FFV065C16SC220	65	120	65	185	145	4-18.5	176	100	131	-
FFV080C16SC220	80	140	80	200	160	8-18.5	192	120	148	-
FFV100C16SC220	100	170	101	220	180	8-18.5	212	150	168	-
FFV125C16SC220	125	200	127	250	210	8-18.5	242	175	198	-
FFV150C16SC220	150	230	145.5	285	240	8-23	275	200	222	-
FFV200C16SC220	200	301	194	340	295	12-23	332	250	278	-
FFV250C10SC220	250	370	245	405	355	12-28	385	300	329	-
FFV300C10SC220	300	410	300	460	410	12-28	445	350	384	-

*Dimensions are in millimeters

FIVC Bottom Valve

Grey Cast Iron – PN 16 – Wafer – EN 1092-2

Product Specification



N°	Name	Material
1	Guide	Ductile Iron GGG 40 CuZn40Pb2
2	Body	Grey Cast Iron GG 25
3	Guiding stem	Copper Alloy CuZn40Pb2
4	Spring	Stainless Steel
5	Seal	EPDM
6	Disc	Ductile Iron GGG 40 CuZn40Pb2
7	Screen	Carbon Steel Q235 Zinc-plated



FVC Flexible Hose

High pressure
Low pressure

FIVC Flexible Hose

EPDM – PN 6/10/15/30 – Stainless Steel Braiding



FFL/FFH series

Technical data

Main features and materials

- Body Inner hose: FFL: EPDM
FFH: EPDM + Kevlar® or Rayon
- Braiding: Stainless Steel
- Fittings: Fp - Brass CW614N/CW617N and Steel
- Sleeves: Stainless and Aluminium
- Bending radius: FFL: 45-220 mm
FFH: 90-130 mm

Field of applications

- Temperature range: -5 to 90 °C (*peaks allowed up to 100 °C for FFH_L*)
- Max. working pressure: FFL: 15-6 bar
FFH: 30-15 bar
- Temperature of passing: 85 °C
- Installation room temp.: 65 °C (*for Low pressure series*)
 - Water networks
 - Boilers
 - Purifications plants
 - Pumps
 - Surge tanks

Description

FIVC Flexible Hose is designed as an anti-vibration hose for the connection between water supply networks, boilers, burners, steam plants etc., in which high pressure and high temperatures are required.

The FIVC Flexible Hose is constructed with EPDM body, hence the hose features a high strength, ensuring less breaking and a high flexibility. Further, with the long lifespan that the EPDM provides, the selection of the EPDM body does lead to cost efficiency.

FIVC provides two different series including a Low-Pressure series (FFL) and a High-Pressure series (FFH) featuring diffe-

rent characteristics. While the FFL series does not have any reinforcement of interwoven wires in the chemical compound, the FFH series is reinforced with Kevlar® and Rayon. The FIVC Flexible Hose can be used for Water.

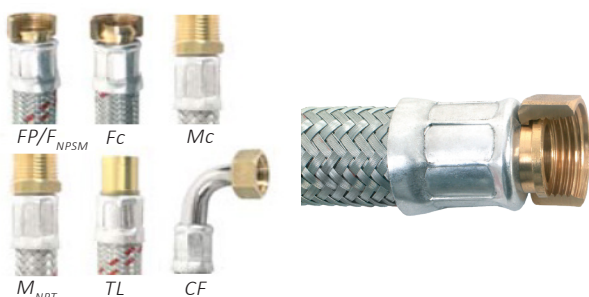
Insulation

FIVC provides solid insulation for its flexible hoses by request. Made by elastomer foamed plastic, the insulation prevents heat loss as well as frost formations. It does also prevent the condensation process, ensuring a safer and more reliable piping system. Thickness from 9-32 mm.

Connections

Identification code*	Size (DN)						
	13	19	25	32	40	50	
FP	13	19	25	32	40	50	
Fc	13		19		25		
F NPSM	13	19	25	32	40	50	
Mc	13	19	25	32	40	50	
M NPT	13	19	25	32	40	50	
CF	13		19		25		
TL	15		22		28		

- *Fp: Female fitting, cylindrical ISO-G, flat sealing surface
- Fp NPSM: Female fitting, cylindrical, NPSM thread
- Fc = Female fitting, cylindrical ISO-G, conical sealing surface
- Fc NPSM: Female fitting, cylindrical NPSM thread
- Mc: Male fitting, conical ISO-R thread
- M NPT: Male fitting, conical NPT thread
- CF: Elbow female fitting, cylindrical ISO-G, flat sealing surface
- TL: Smooth fitting



FFL_BBS_MF01 09.2017

All data sheets are subject to changes without prior notice

Product Information

Product code	Hose		Size*			PN	Packaging (pcs per bundle)	Chemical compound (Reinforcement)
	DN	Inch	Braiding	Bending radius	Passage hole			
FFL013BBS15MF01300	13	1/2	20	45	10	15	20	-
FFL019BBS15MF01300	19	3/4	27	75	15	15	10	-
FFL025BBS15MF01300	25	1	34	90	20	15	5	-
FFL032BBS10MF01300	32	1 1/4	41	120	26	10	1	-
FFL040JJA10MF01300	40	1 1/2	52	150	32/33	10	1	-
FFL050JJA6MF01300	50	2	64	180	41	6	1	-
FFH013BBS30MF01300	13	1/2	20	90	10	30	20	Kevlar®
FFH019BBS30MF01300	19	3/4	27.5	90	15	30	10	
FFH025BBS30MF01300	25	1	34.5	110	20	30	5	
FFH032BBS30MF01300	32	1 1/4	45	130	26	30	-	Rayon
FFH040JBS20MF01300	40	1 1/2	53	200	32/33	20	-	
FFH050JBS15MF01300	50	2	65	250	41	15	-	

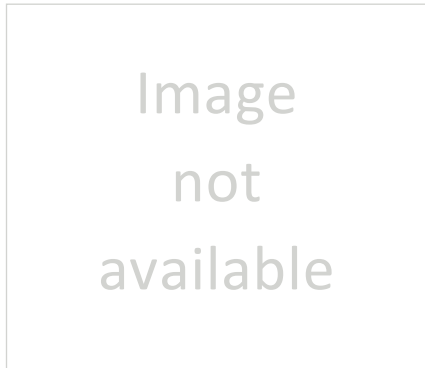
*Dimensions are in millimeters

Product Specification

Name	Material	
	FFL Low pressure series	FFH High pressure series
Inner hose	EPDM rubber	EPDM rubber Reinforced with: DN 13-25: Kevlar® DN 32-50: Rayon
External braiding	Stainless Steel AISI 304	Stainless Steel AISI 304
Nut	DN 13-32: Brass CW614N DN 40-50: Steel	DN 13-32: Brass CW614N DN 40-50: Steel
Fittings	DN 13-32: Brass CW617N DN 40-50: Steel	Brass CW617N
Sleeves	DN 13-19: Stainless Steel/ Aluminium DN 25-32: Stainless Steel DN 40-50: Aluminium	Stainless Steel

FIVC Flexible Hose

Stainless Steel – PN 5/6/8/10/15/20/25/30 – Stainless Steel Braiding



Technical data

Main features and materials

- Body inner hose: Stainless Steel bellows
- Braiding: Stainless Steel wires
- Fitting: Stainless Steel
- Nut: DN 10-32: Brass CW614N
DN 40-100: Galvanized Steel
- Bending radius: 70-450 mm

Field of applications

- Temperature range: -15 to 200 °C
- Max. working pressure: DN 10-12: 30 bar
DN 20: 25 bar
DN 25: 20 bar
DN 32: 15 bar
DN 40: 10 bar
DN 52-65: 8 bar
DN 75: 6 bar
DN 100: 5 bar

FFS series

- Water networks
- Burners
- Boilers
- Steam plants

Description

FIVC Flexible Hose is designed for the connection between water supply networks, boilers, burners, and steam plants, in which high pressure and high temperatures are required. The FIVC Flexible Hose is constructed entirely of Stainless Steel bellows. As a result, the hose features a high strength along with a flexible bending movement.

heat loss as well as frost formations. It does also prevent the condensation process, ensuring a safer and more reliable piping system. Thickness from 9-32 mm.

Insulation

FIVC provides solid insulation for its flexible hoses by request. Made by elastomer foamed plastic, the insulation prevents

Declaration

The FIVC Flexible Hose is approved by the Swiss Institute SVGW.

This datasheet is made for the length equal 300 mm. Please note that FlowCon IVC also provides other sizes by request

Furthermore, we do offer various connections including MxM, FxF, MxF etc.

Connections

Identification code*	Size (Inch)								
	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Fp	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Fc	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Mc	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Fl	1	1 1/4	1 3/4	2	2 1/2	3	4		

*Fp: Female fitting, cylindrical ISO-G, flat sealing surface
Fc = Female fitting, cylindrical ISO-G, conical sealing surface
Mc: Male fitting, conical ISO-R thread
Fl: Flange fitting



Product Information

Product code	Size*				PN	Packaging (pcs per bundle)
	Hose (DN)	Braiding	Bending (radius)	Passage hole		
FFS010BSX30MF01300	10	16	70	9	30	1
FFS012BSX30MF01300	12	19	90	10.5	30	1
FFS020BSX25MF01300	20	29	150	18	25	1
FFS025BSX20MF01300	25	37	180	22	20	1
FFS032BSX15MF01300	32	44	230	30	15	1
FFS040JSX10MF01300	40	52	260	35	10	1
FFS052JSX8MF01300	52	66	300	46	8	1
FFS065JSX8MF01300	65	85	350	61	8	1
FFS075JSX6MF01300	75	95	400	70	6	1
FFS100JSX5MF01300	100	120	450	100	5	1

*Dimensions are in millimeters

Product Specification

Name	Materials
Inner hose	Stainless Steel AISI 321 bellows
External braiding	Stainless Steel AISI 304
Nut	DN 10-32: Brass CW614N DN 40-75: Galvanized Steel
Fittings	Stainless Steel AISI 303

FFS_BSX_MF01 09.2017

All data sheets are subject to changes without prior notice



FIVC Expansion Joint

Single sphere
Double sphere

FIVC Expansion Joint

EPDM – PN 16 – Double Sphere Union – BSPT/Rc



FFC 02 series

Technical data

Main features and materials

- Rubber: EPDM
- Carcass: Nylon Cord Fabric
- Reinforcing wire: Spring Steel Wire
- Union coupling: Malleable Iron (*Zinc plated*)
- USP: Efficient in noise reduction due to effective multi-sphere structure incl. the vibration ansorption. Suitable for awide of high and low temperature applications.

Field of applications

- Temperature range: -10 to 120 °C
- Max. working pressure: 16 bar
- Max. bursting pressure: 30 bar
- Vacuum rating: 400 mmHg

- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engine ring and air-conditioning

Description

FIVC Expansion Joint with double sphere union is designed to be installed into pipelines for the purpose to avoid damage caused by stretching, compressing, deflecting, or displacing of pipes. The FIVC Expansion Joint is designed with multi-sphere structure that leads to better vibration absorption and a noteworthy efficient noise reduction. It ensures a high working pressure as well as anti-burst and good elasticity.

FIVC Expansion Joint is suitable for a wide range of applications depending on the requested rubber material. With an EPDM rubber, the product is suitable for hot water, steam, oxidant, animal, and vegetable oils. The EPDM rubber has excellent resistance to sunlight and is good for high and low temperature applications.

With NBR rubber, the product is suitable for most hydrocarbons, oils, petroleum fuels, and hydraulic fluids. However, NBR rubber is not suitable for sunlight ageing, ozone and flame.

Neoprene rubber is suitable for water, sewage, oxidant, and non-aromatic hydrocarbons. It has good resistance for oil and weathering.

Alternative Product Versions

Other standards

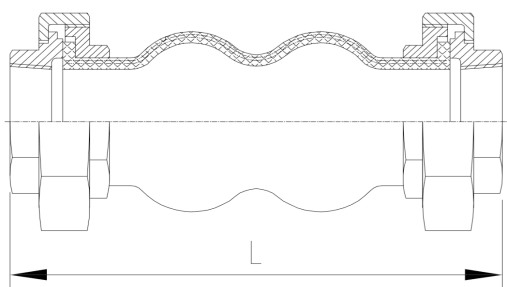
Rubber in NBR or Neoprene

Temperature range: NBR -10 to 82 °C or Neoprene -10 to 110 °C

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

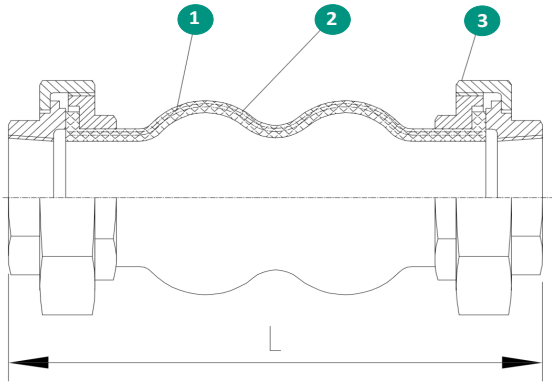
Product code	Size (DN)	L*	AC*	AE*	LM*	AM*	Kg
FFC020M16EPDM02	20	200	22	5~6	22	45°	0.75
FFC025M16EPDM02	25	200	22	5~6	22	45°	1
FFC032M16EPDM02	32	200	22	5~6	22	45°	1.4
FFC040M16EPDM02	40	200	22	5~6	22	45°	1.9
FFC050M16EPDM02	50	200	22	5~6	22	45°	2.6
FFC065M16EPDM02	65	240	22	5~6	22	45°	3.7

*Dimensions are in millimeters • AC: Axial Compression • AE: Axial Elongation
• LM: Lateral Movement • AM: Angular Movement (Cf. p. 2/2)

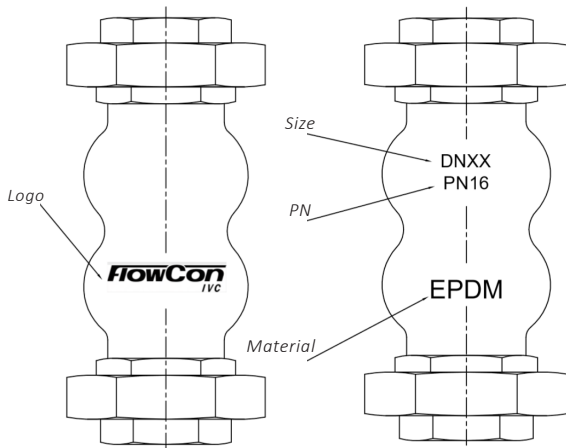
FIVC Expansion Joint

EPDM – PN 16 – Double Sphere Union – BSPT/Rc

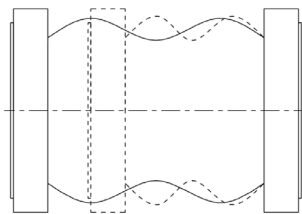
Product Specification



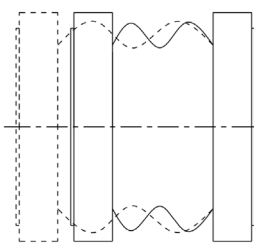
N°	Name	Material
1	Rubber	EPDM
2	Carcass	Nylon Cord Fabric
3	Union Coupling	Malleable Iron
4	Reinforcing wire	Spring Steel Wire



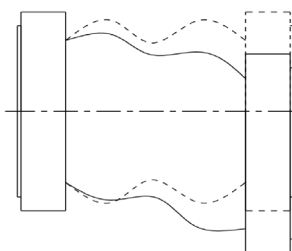
Permits Movement



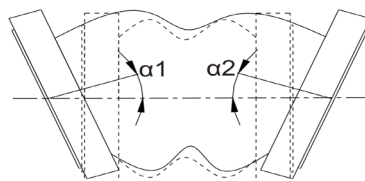
Axial Elongation



Axial Compression



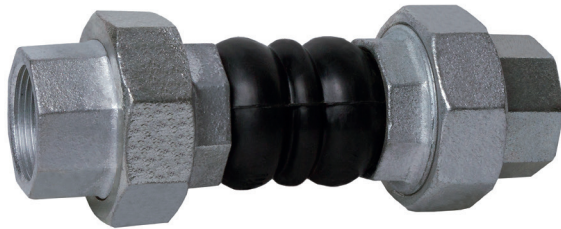
Lateral movement



Angular movement

FIVC Expansion Joint

EPDM – PN 10 – Double Sphere Union – DIN 2999



FFC 83 series

Technical data

Main features and materials

- Rubber: EPDM
- Key frame: Nylon
- Wire: Steel
- Union coupling: Galvanized Iron
- USP: Efficient in noise reduction due to effective multi-sphere structure incl. the vibration ansorption. Allows the adsorption of four movements
- Connection: DIN 259/2999

Field of applications

- Temperature range: -15 to 90 °C
- Max. working pressure: 10 bar
- Explosion pressure: 30 bar

- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Expansion Joint with double sphere union is designed to be installed into pipelines for the purpose to avoid damage caused by stretching, compressing, deflecting, or displacing of pipes. The FIVC Expansion Joint is designed with multisphere structure that leads to better vibration absorption and a noteworthy efficient noise reduction.

It allows the adsorption of the four movements: compression, elongation, lateral deflection and angular deflection. It has a reduced fatigue factor and a great resistance to the deformation, being as well resistant corrosion and erosion.

FIVC Expansion Joint is suitable for a wide range of applications depending on the requested rubber material. With an EPDM rubber, the product is suitable for hot water, steam, oxidant, animal, and vegetable oils.

The EPDM rubber has excellent resistance to sunlight and is good for high and low temperature applications.

With NBR rubber, the product is suitable for most hydrocarbons, oils, petroleum fuels, and hydraulic fluids. However, NBR rubber is not suitable for sunlight ageing, ozone and flame.

Alternative Product Versions

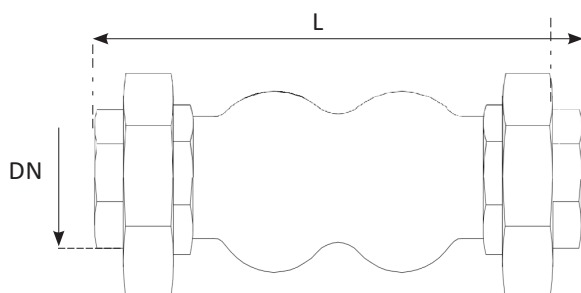
Other standards

Rubber in NBR
Temperature range: NBR -10 to 82 °C

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

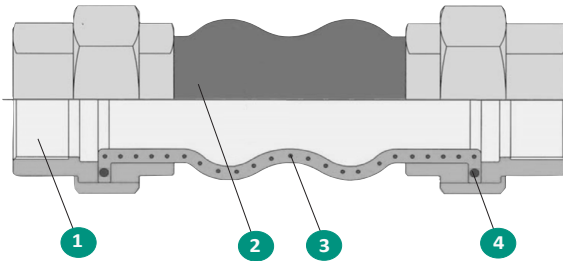
Product code	Size (DN)	L*	AE*	AC*	D*	Kg
FFC015GI10EPDM83	15	200	6	22	30°	0.60
FFC020GI10EPDM83	20	200	6	22	30°	0.80
FFC025GI10EPDM83	25	200	6	22	25°	1.10
FFC032GI10EPDM83	32	200	6	22	25°	1.40
FFC040GI10EPDM83	40	200	6	22	20°	1.70
FFC050GI10EPDM83	50	200	6	22	15°	2.40

*Dimensions are in millimeters • AE: Axial Extension • AC: Axial Compression • D: Deflexion angle

FIVC Expansion Joint

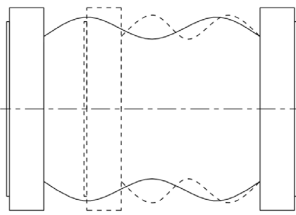
EPDM – PN 10 – Double Sphere Union – DIN 2999

Product Specification

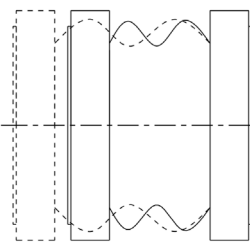


N°	Name	Material
1	Connection	Galvanized Iron
2	Body	EPDM
3	Key frame	Nylon
4	Wire	Steel

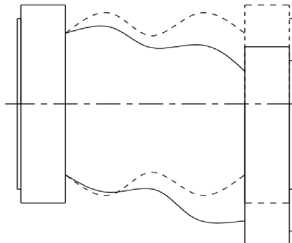
Permits Movement



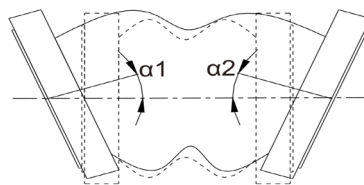
Axial Elongation



Axial Compression



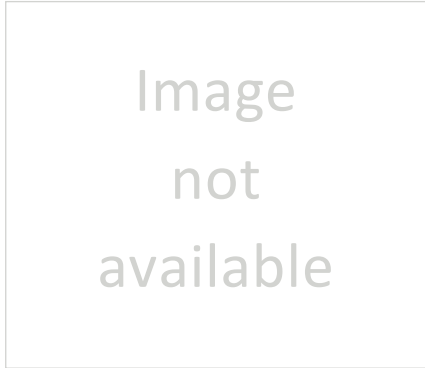
Lateral deflection



Angular deflection

FIVC Expansion Joint

EPDM – PN 16 – Double Sphere Union – EN 1092-2



FFC 03 series

Technical data

Main features and materials

- Rubber: EPDM
- Carcass: Nylon Cord Fabric
- Wire: Carbon Steel
- Flange: Carbon Steel
- USP: Efficient in noise reduction due to effective multi-sphere structure incl. the vibration ansorption. Suitable for awide of high and low temperature applica-tions.

Field of applications

- Temperature range: EPDM: -15 to 115 °C
- Max. working pressure: 16 bar
- Max. bursting pressure: 48 bar
- Vacuum rating: 500 mmHg

- Industrial Technologies
- Hot and cold water plants

- Heat and refrigerating, enginee ring and air-conditioning

Description

FIVC Expansion Joint with double sphere union is designed to be installed into pipelines for the purpose to avoid damage caused by stretching, compressing, deflecting, or displacing of pipes. The FIVC Expansion Joint is designed with multi-sphere structure that leads to better vibration absorption and a noteworthy efficient noise reduction. It ensures a high working pressure as well as anti-burst and good elasticity.

FIVC Expansion Joint is suitable for a wide range of applications depending on the requested rubber material. With an EPDM rubber, the product is suitable for hot water, steam, oxidant, animal, and vegetable oils. The EPDM rubber has excellent resistance to sunlight and is good for high and low temperature applications.

With NBR rubber, the product is suitable for most hydrocarbons, oils, petroleum fuels, and hydraulic fluids. However, NBR rubber

is not suitable for sunlight ageing, ozone and flame.

Neoprene rubber is suitable for water, sewage, oxidant, and non-aromatic hydrocarbons. It has good resistance for oil and weathering.

Alternative Product Versions

Other standards

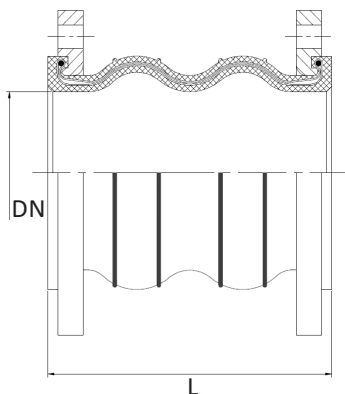
Rubber in NBR/Neoprene

Temperature range: NBR -10 to 82 °C or Neoprene -10 to 110 °C

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014.

Dimensions



Product Information

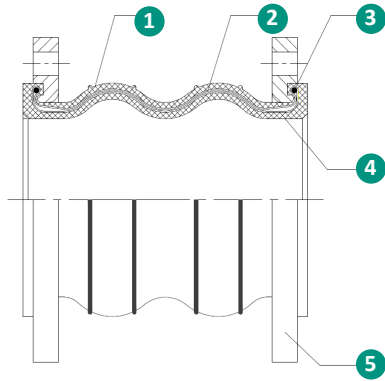
Product code	Size (DN)	L*	PG*	AC*	AE*	LM*	AM* (degrees)	Kg
FFC032W16EPDM03	32	175	170-180	30	20	45	30°	-
FFC040W16EPDM03	40	175	170-180	30	20	45	30°	-
FFC050W16EPDM03	50	175	170-180	30	20	45	30°	-
FFC065W16EPDM03	65	175	170-180	50	25	45	30°	-
FFC080W16EPDM03	80	175	170-180	50	25	45	30°	-
FFC100W16EPDM03	100	225	220-230	50	35	35	30°	-
FFC125W16EPDM03	125	225	220-230	50	35	35	30°	-
FFC150W16EPDM03	150	225	220-230	50	35	35	30°	-
FFC200W16EPDM03	200	325	320-330	50	35	30	30°	-
FFC250W16EPDM03	250	325	320-330	50	35	30	30°	-
FFC300W16EPDM03	300	325	320-330	50	35	30	20°	-
FFC350W16EPDM03	350	345	340-350	40	20	28	10°	-
FFC400W16EPDM03	400	345	340-350	40	25	28	10°	-
FFC450W16EPDM03	450	345	340-350	40	25	28	10°	-
FFC500W16EPDM03	500	345	340-350	40	25	28	10°	-
FFC600W16EPDM03	600	345	340-350	40	25	28	10°	-
FFC700W16EPDM03	700	345	340-350	40	25	28	10°	-

*Dimensions are in millimeters • PG: Pre-Gab between the two pipe flanges • AC: Axial Compression • AE: Axial Elongation • LM: Lateral Movement • AM: Angular Movement (Cf. p. 2/2)

FIVC Expansion Joint

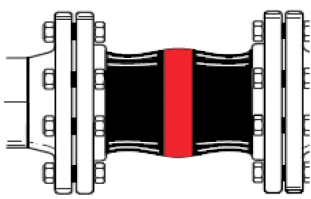
EPDM – PN 16 – Double Sphere Union – EN 1092-2

Product Specification

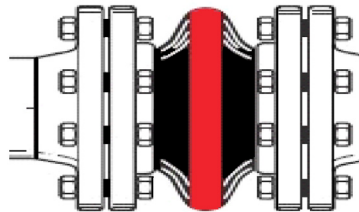


N°	Name	Material
1	Rubber	EPDM
2	Carcass	Nylon Cord Fabric
3	Wire	Carbon Steel
4	Flange	Carbon Steel

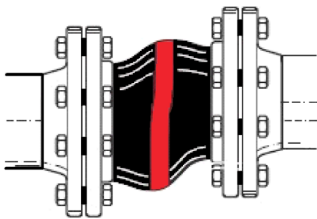
Permits Movement



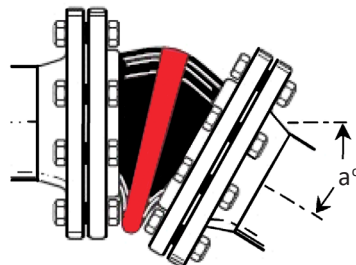
Axial Elongation



Axial Compression

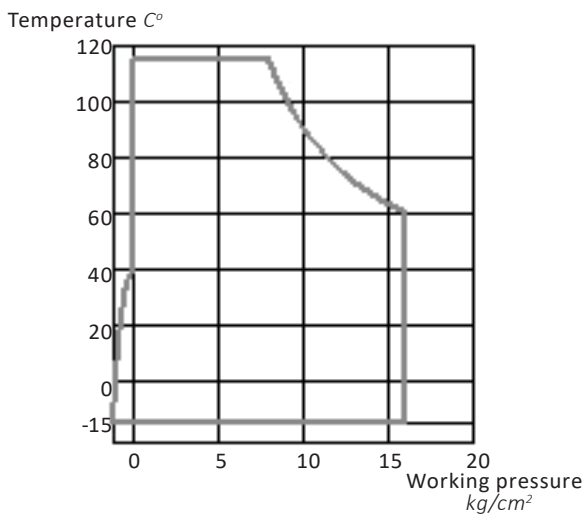


Lateral movement



Angular movement

Pressure-Temperature Rating



FIVC Expansion Joint

EPDM – PN 16 – Single Sphere Union



FFC 82 series

Technical data

Main features and materials

- Rubber: EPDM
- Carcass: Nylon
- Wire: Steel
- Flange: Carbon Steel
- USP: Efficient in noise reduction due to effective multi-sphere structure incl. the vibration ansorption. Allows the adsorption of four movements

Field of applications

- Temperature range: -15 to 90 °C
- Max. working pressure: 16 bar
- Explosion pressure: 30 bar

- Industrial Technologies
- Hot and cold water plants
- Heat and refrigerating, engineering and air-conditioning

Description

FIVC Expansion Joint with single sphere union is designed to be installed into pipelines for the purpose to avoid damage caused by stretching, compressing, deflecting, or displacing of pipes. The FIVC Expansion Joint is designed with multisphere structure that leads to better vibration absorption and a noteworthy efficient noise reduction.

It allows the adsorption of the four movements: compression, elongation, lateral deflection and angular deflection. It has a reduced fatigue factor and a great resistance to the deformation, being as well resistant corrosion and erosion.

FIVC Expansion Joint is suitable for a wide range of applications depending on the requested rubber material. With an EPDM rubber, the product is suitable for hot water, steam, oxidant, animal, and vegetable oils. The EPDM rubber has excellent resistance to sunlight and is good for high and low temperature applications.

With NBR rubber, the product is suitable for most hydrocarbons, oils, petroleum fuels, and hydraulic fluids. However, NBR rubber is not suitable for sunlight ageing, ozone and flame.

Alternative Product Versions

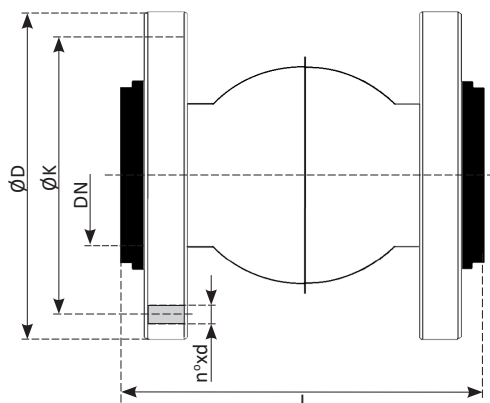
Other standards

Rubber in NBR
Temperature range: NBR -10 to 82 °C

Declaration

The product has been inspected and tested in accordance with the European PED Directive N° 2014/68/EU, dated 15/05/2014 and is CE marked.

Dimensions



Product Information

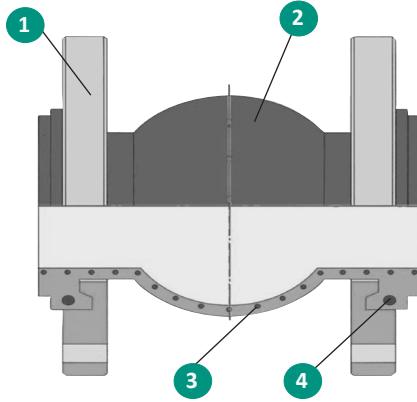
Product code	Size (DN)	L*	ØD*	ØK*	n°xd* PN 10/16	HD*	AE*	AC*	DA*	Kg
FFC065W16EPDM82	65	115	185	145	4x19	11	7	13	15°	5.5
FFC080W16EPDM82	80	130	200	160	8x19	12	8	15	15°	6.5
FFC100W16EPDM82	100	135	220	180	8x19	13	10	19	15°	7.5
FFC125W16EPDM82	125	170	250	210	8x19	13	12	19	15°	10
FFC150W16EPDM82	150	180	285	240	8x23	14	12	20	15°	13
FFC200W16EPDM82	200	205	340	295	8x23/12x23	22	16	25	15°	18.5
FFC250W16EPDM82	250	240	395/105	350/355	12x23/12x28	22	16	25	15°	23.5
FFC300W16EPDM82	300	260	445/460	400/410	12x23/12x28	22	16	25	15°	29
FFC350W16EPDM82	350	265	505/520	460/470	16x23/16x28	22	16	25	15°	39
FFC400W16EPDM82	400	265	565/580	515/525	20x28/20x31	22	16	25	15°	47.5
FFC450W16EPDM82	450	265	615/640	565/585	20x28/20x34	22	16	25	15°	55
FFC500W16EPDM82	500	265	670/715	620/650	20x28/20x34	22	16	25	15°	68.5
FFC600W16EPDM82	600	265	780/840	725/770	20x31/20x37	22	16	25	15°	137.5

*Dimensions are in millimeters • HD: Horizontal displacement • AE: Axial Extension • AC: Axial Compression • DA: Deflection angle

FIVC Expansion Joint

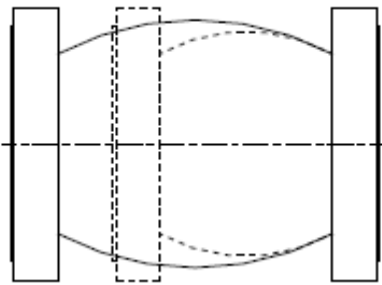
EPDM – PN 16 – Single Sphere Union

Product Specification

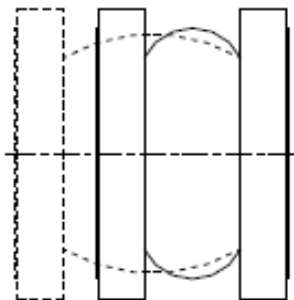


N°	Name	Material
1	Flanged	Carbon Steel
2	Body	EPDM
3	Carcass	Nylon
4	Wire	Steel

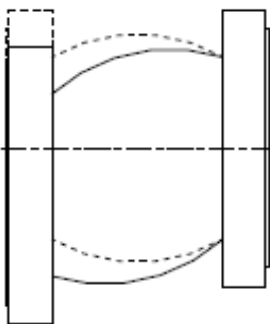
Permits Movement



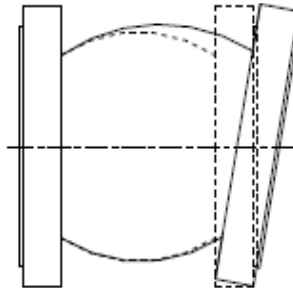
Axial Elongation



Axial Compression



Lateral deflection



Angular deflection

FIVC Pressure Gauge



FIVC Pressure Gauge

Plastic and Copper Alloy – 0-10 bar – Bourdon – EN 837-1



FPG series

Technical data

Main features and materials

- Case: Plastic
 - Process connection: Copper Alloy
 - Pressure element: Copper Alloy
 - Dial: Plastic/Aluminium w/Pointer stop pin
 - Window: Plastic
 - Movement: Copper Alloy
 - USP: Reliable and cost-effective
- Nominal size: 40, 50, 63, 80, 100, and 160
- Design: EN 837-1
 - Accuracy class: 2.5
 - Pressure limitation: Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value
 - Scale ranges: 0..0.6 to 0..400 bar

Field of applications

- Temperature range: Ambient: -20 to 60 °C
Medium: +60 °C maximum
- Max. working pressure: 0-10 bar
- Gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Pneumatics
- Heating and air-conditioning technology
- Medical engineering

Description

FIVC Pressure Gauge is designed as a bourdon type device to be installed in applications for pressure-measurement purposes. The device is zero-referenced against ambient pressure, and reads zero when it is disconnected from the equipment.

Benefits of using the pressure gauge include its quick and accurate readings of the fluid pressure. Furthermore, the device ensures that no leakages or pressure changes occurs in the application, hence ensures a predictable and reliable system.

Besides, the pressure gauge is simple and easy to be installed and may be more durable in rough and large applications, having large pressure changes.

Alternative Product Versions

Other Standards

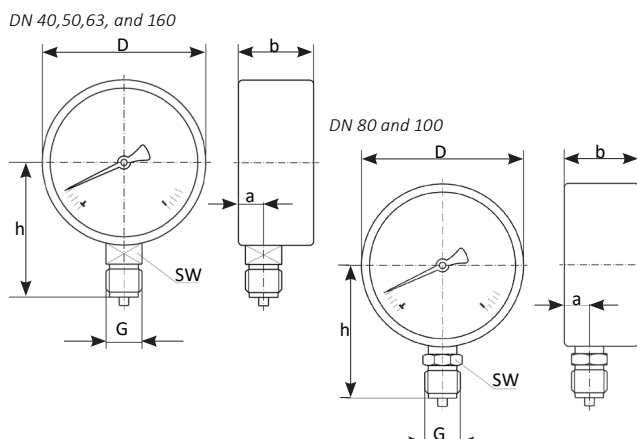
- Sealings
- Accuracy class 1.6
- Case steel, black, for DN 40, 50 and 63 with blow-out device
- Surface mounting flange (not with DN 40 and 50)

Other versions available upon request.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3). Approvals include GOST, Russia (metrology/measurement technology), CRN, Canada (safety e.g. electr. safety, over-pressure etc.).

Dimensions



Product Information

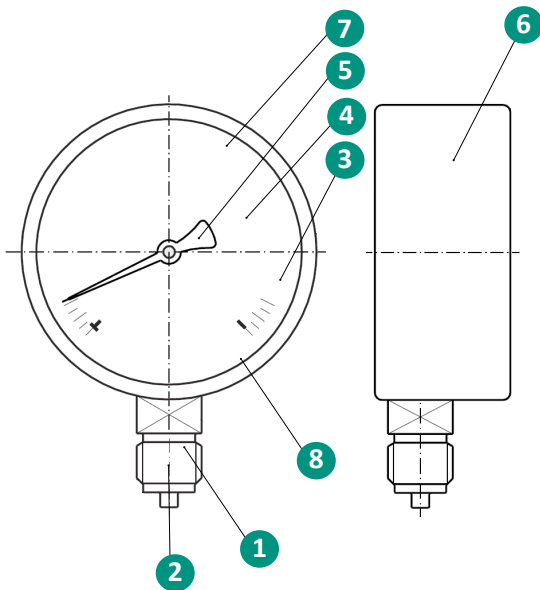
Product code	Size (DN)	NS**	a*	b±0.5*	D*	h±1*	SW*	PC**	Kg
FPGB003P01040	3	40	9.5	26	39	36	14	Male, 14 mm flats	0.08
FPGB006P01050	6	50	10	27.5	49	45	14		0.10
FPGB006P01063	6	63	9.5	27.5	62	53.5	14		0.13
FPGB015P01080	15	80	11.5	30	79	72	22	Male, 22 mm flats	0.18
FPGB015P010100	15	100	11.5	30.5	99	83.5	22		0.21
FPGB015P010160	15	160	15.5	42	160	115.5	22		0.85

*Dimensions are in millimeters • PC: Process connection • NS: Nominal size

FIVC Pressure Gauge

Plactic and Copper Alloy – 0-10 bar – Bourdon – EN 837-1

Product Specification



N°	Name	Material
1	Process connection	Copper Alloy, lower mount (LM)
2	Pressure element	Copper Alloy, C-type or helical type
3	Movement	Copper Alloy
4	Dial	DN 40, 50, 63: Plastic, white, with pointer stop pin. DN 80, 100, and 160: Aluminium, white, with pointer stop pin. Black lettering, red mark pointer with measuring ranges 0 ... 0.6 to 0 ... 60 bar.
5	Pointer	Plastic, black. Except DN 160: Steel, black.
6	Case	Plastic, black Except DN 160: Steel, black.
7	Window	Plastic, crystal-clear, snap-fitted in case. Except DN 160: Instrument glass.
8	Bezel ring	DN 40-100: without a bezel ring DN 160: With a bezel ring

FIVC Pressure Gauge

Plastic and Copper Alloy – 0-16 bar – Bourdon – EN 837-1



FPG series

Description

FIVC Pressure Gauge is designed as a bourdon type device to be installed in applications for pressure-measurement purposes. The device is zero-referenced against ambient pressure, and reads zero when it is disconnected from the equipment.

Benefits of using the pressure gauge include its quick and accurate readings of the fluid pressure. Furthermore, the device ensures that no leakages or pressure changes occurs in the application, hence ensures a predictable and reliable system.

Besides, the pressure gauge is simple and easy to be installed and may be more durable in rough and large applications, having large pressure changes.

Technical data

Main features and materials

- Case: Plastic
 - Process connection: Copper Alloy
 - Pressure element: Copper Alloy
 - Dial: Plastic/Aluminium w/Pointer stop pin
 - Window: Plastic
 - Movement: Copper Alloy
 - USP: Reliable and cost-effective
- Nominal size: 40, 50, 63, 80, 100, and 160
- Design: EN 837-1
 - Accuracy class: 2.5
 - Pressure limitation: Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value
 - Scale ranges: 0..0.6 to 0..400 bar

Field of applications

- Temperature range: Ambient: -20 to 60 °C
Medium: +60 °C maximum
- Max. working pressure: 0-16 bar
- Gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Pneumatics
- Heating and air-conditioning technology
- Medical engineering

Alternative Product Versions

Other Standards

- Sealings
- Accuracy class 1.6
- Case steel, black, for DN 40, 50 and 63 with blow-out device
- Surface mounting flange (not with DN 40 and 50)

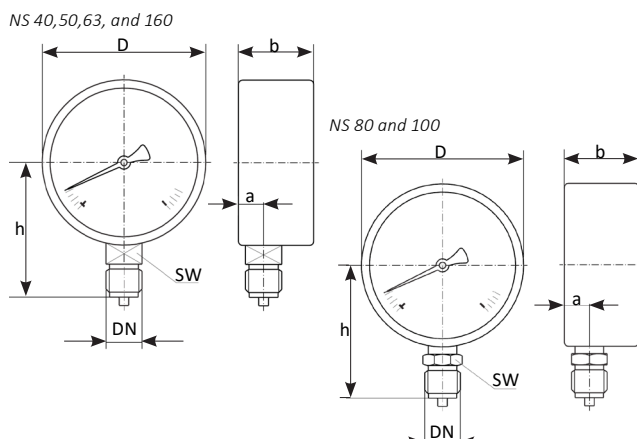
Other versions available upon request.

Declaration

The product has been inspected and tested in accordance with the Sound Engineering Practice SEP. Acc. to the European PED Directive N° 2014/68/EU, dated 15/05/2014, the product is exempted from CE marking (Cf. Art. 4.3).

Approvals include GOST, Russia (metrology/measurement technology), CRN, Canada (safety e.g. electr. safety, over-pressure etc.).

Dimensions



Product Information

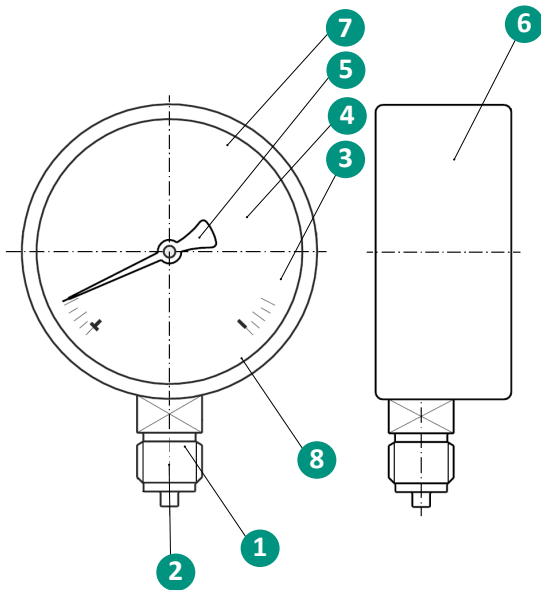
Product code	Size (DN)	NS**	D*	a*	b±0.5*	h±1*	SW*	PC**	Kg
FPGB003P01640	3	40	39	9.5	26	36	14	Male, 14 mm flats	0.08
FPGB006P01650	6	50	49	10	27.5	45	14		0.10
FPGB006P01663	6	63	62	9.5	27.5	53.5	14		0.13
FPGB015P01680	15	80	79	11.5	30	72	22	Male, 22 mm flats	0.18
FPGB015P016100	15	100	99	11.5	30.5	83.5	22		0.21
FPGB015P016160	15	160	160	15.5	42	115.5	22		0.85

*Dimensions are in millimeters • PC: Process connection • **NS: Nominal size

FIVC Pressure Gauge

Plactic and Copper Alloy – 0-16 bar – Bourdon – EN 837-1

Product Specification



N°	Name	Material
1	Process connection	Copper Alloy, lower mount (LM)
2	Pressure element	Copper Alloy, C-type or helical type
3	Movement	Copper Alloy
4	Dial	DN 40, 50, 63: Plastic, white, with pointer stop pin. DN 80, 100, and 160: Aluminium, white, with pointer stop pin. Black lettering, red mark pointer with measuring ranges 0 ... 0.6 to 0 ... 60 bar.
5	Pointer	Plastic, black. Except DN 160: Steel, black.
6	Case	Plastic, black Except DN 160: Steel, black.
7	Window	Plastic, crystal-clear, snap-fitted in case. Except DN 160: Instrument glass.
8	Bezel ring	DN 40-100: without a bezel ring DN 160: With a bezel ring

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