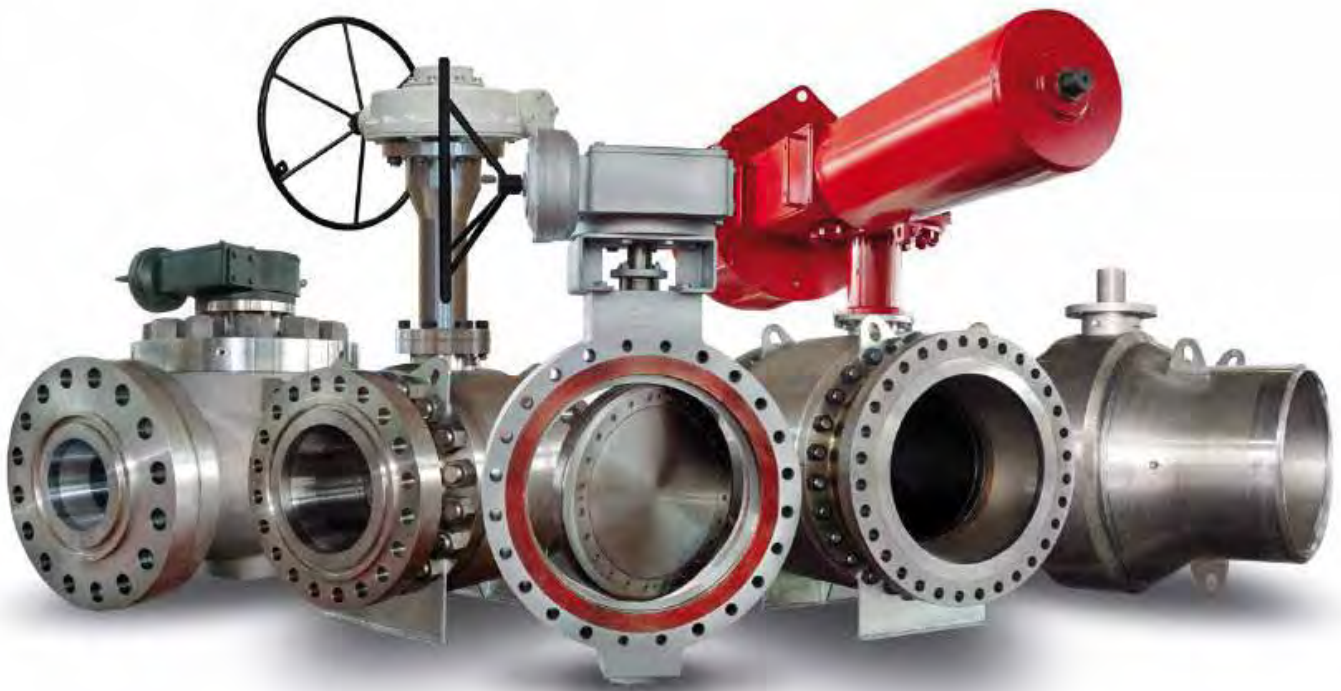


HVAC & Plumbing

CATALOGUE







valveIT®

PRO

AT FLUID CONTROL

Publisher : valveIT srl
Photography and illustrations : Marketing Department, valveIT srl
Edition : VIT/HVAC/2018/02

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ITALIAN QUALITY

VALVES

WATER PHARMA

INDUSTIRAL SKIDS

SYSTEM INTEGRATION

DRI PLANT SYSTEMS

OIL & GAS

CABINETS



WE ARE

VALVEIT IS A LEADER IN THE VALVE AND PLANT SECTOR, SUPPLYING SOME OF THE BIGGEST OIL & GAS, WATER, PHARMA AND CONSTRUCTION GROUPS IN THE WORLD.

By working with selected partners, we can supply you with the highest quality valves, cabinets, skids, system integrators and entire plant systems at the best price possible – all backed up by our expert staff and unbeatable customer service.

valveIT products and services have been rigorously tested and approved and carry the leading type approvals and certificates. At our 4,000 square-meter complex we employ the latest technologies and systems so as to guarantee smooth manufacture, supply, delivery, installation and quality control. The complex is located at Casalecchio di Reno (Bologna). Bologna is a major air, road, and railway transport hub, facilitating all aspects of our business, in particular quick delivery.

valveIT is also conveniently located near the major port of Ravenna and La Spezia.

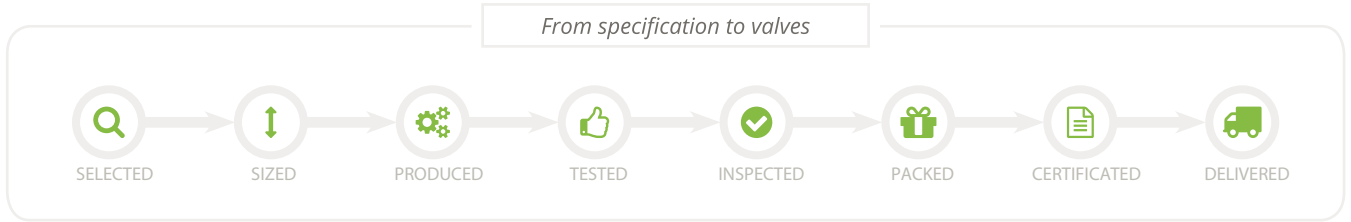
No job is too small or too big for valveIT!

Our online shop makes ordering individual valves and components child's play. We supply everything from single valves to skids and cabinets, as well as the design, manufacture and installation of entire plant systems.

Above all, **valveIT** is about passion for success and performance

– the reason we count some of the biggest names among our customers is they know they can count on us to deliver the very best quality on time and on budget.

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Depending on client's needs and vendor list specifications, we manufacture our **valveIT** brand, or we can choose and create a package from our trusted sub - suppliers for valves, pipes and accessories. Flexibility and multiple options guarantee the best service at the best price.

WE ARE THE SMART CHOICE FOR GENERAL CONTRACTORS / EPC THANKS TO OUR EXPERIENCE AND EXPERTISE IN COMPLETE - PROJECT MANAGEMENT.



We are certified by KIWA, one of the most well known authority for valves especially in potable water applications. Health and environment are important for us, because they are important for you, so this is why we are certified for:

Certificato



Reg. Numero	11599- E	Valido da	2017-01-24
Primo rilascio	2017-01-24	Ultima modifica	2017-01-24
Scadenza	2018-09-15	Settore	EA: 22, 18, 29

**Certificato del Sistema di Gestione Ambientale
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Si dichiara che il Sistema di Gestione Ambientale dell'Organizzazione:
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è conforme alla norma UNI EN ISO 14001:2004 per i seguenti prodotti/servizi:
Progettazione, assemblaggio e commercializzazione di valvole ed attuatori per il settore industriale gas & oil, farmaceutico ed alimentare.

Chief Operating Officer
Giampiero Belcredi

Il mantenimento della certificazione è soggetto a sorveglianza annuale e subordinato ai requisiti contrattuali Kiwa Cermet Italia.

La presente certificazione è stata rilasciata in conformità al Regolamento Tecnico Accredia RT 09.

Il presente certificato è costituito da 1 pagina.

VALVEIT S.r.l.
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Sedi oggetto di certificazione
- Via Caduti di Reggio Emilia, 25-27 40033 Casalecchio di Reno (BO) Italia



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Fax +39 051 763.382
E-mail: info@kiwacermet.it
www.kiwacermet.it



Certificato



Reg. Numero	11599 - I	Valido da:	2016-12-28
Primo rilascio	2016-12-28	Ultima modifica	2016-12-28
Scadenza	2019-12-27	Settore	EA: 18, 29

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Certificato



Reg. Numero	11599- A	Valido da	2015-07-28
Primo rilascio	2015-07-28	Ultima modifica	2015-07-28
Scadenza	2018-07-27	Settore	EA: 22, 18

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Fax +39 051 763.382
E-mail: info@kiwacermet.it
www.kiwacermet.it





This certifies that

VALVEIT SRL

has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.

VIT-20-YSBZ RANGE OF STRAINERS

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

July 2020

1507982

Certificate No.

J Funnal

Secretary

K Harvey

Chairman, Product Assessment Group



This certifies that

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has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.

VIT-20-GBZN RANGE OF GATE VALVES

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The product so mentioned will be valid until the end of:

September 2020

1509991

Certificate No.

J Funnal

Secretary

K Harvey

Chairman, Product Assessment Group



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VIT-25-DBZR BALANCING VALVES

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The product so mentioned will be valid until the end of:

December 2021

1612359

Certificate No.

J Funnal

Secretary

K Harvey

Chairman, Product Assessment Group



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VIT-25-BLBZ SPHERICAL VALVES

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1510971

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K Harvey

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VIT-25-BDL, VIT-25-BDLS, VIT-25-BDW & VIT-25-BDWS WAFER SERIES BUTTERFLY VALVES

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The product so mentioned will be valid until the end of:

October 2021

1610364

Certificate No.

J Funnell

Secretary

K Leung

Chairman, Product Assessment Group

October 2014



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has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.

VIT-25-YDS SERIES Y-PATTERN STRAINERS

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October 2021

1610366

Certificate No.

J Funnell

Secretary

K Leung

Chairman, Product Assessment Group

October 2014



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VALVEIT SRL

has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.

VIT-25-GDN & VIT-25-GDR GATE VALVES

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October 2021

1610365

Certificate No.

J Funnell

Secretary

K Leung

Chairman, Product Assessment Group

October 2014



This certifies that

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VIT-25-WCCD & VIT-25-WCC NON RETURN VALVES:

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

October 2021

1610367

Certificate No.

J Funnell

Secretary

K Leung

Chairman, Product Assessment Group

October 2014

COMPLETE SECURITY FOR YOUR BUSINESS

valveIT has signed an agreement with one of the most important insurance company in the world:

XL INSURANCE COMPANY SE

Our product liability insurance covers the cost of compensating anyone who is injured by a faulty product that our business designs, manufactures or supplies.

At valveIT we do everything possible to ensure the quality of our products and the safety and wellbeing of our customers who use them.

<p>Piazza Gae Aulenti, 8 I-20154 Milano Telefono +39 02 85900.1 Fax +39 02 85900.450</p>	<p>Firmato da: VITTORIO RAMELLA Data: 17/10/2017 14:55:11</p>	
<p>TO Whom it may concern</p>		
<p>CERTIFICATE OF INSURANCE</p>		
<p>XL Insurance Company SE, Piazza Gae Aulenti, 8 - 20154 Milano, herewith confirms to have issued, to the Insured named herein, policies of insurance which provide, subject to the insuring agreements, exclusions, conditions and declarations contained therein, and during their effective period, coverage as described below:</p>		
Named Insured	<p>Valveit S.r.l. Via Caduti di Reggio Emilia, 27 40033 Casalecchio di Reno (BO)</p>	
Policy Number:	<p>IT00015307LI – Certificate nr. 11/45</p>	
Policy Holder:	<p>Associazione di Imprese INTRAPRENDO</p>	
Scope of coverage:	<p>Products Liability</p>	
Limits of indemnity:	<p>Euro 5.000.000,00 per event and in the annual aggregate</p>	
Period of Insurance:	<p>from September 30, 2017 to September 30, 2018</p>	
<p>This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein; notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate of verification of insurance may be issued or may pertain, the insurance afforded by the policies herein is subject to all terms, exclusions of such policies.</p>		
<p>XL Insurance Company SE per XL Catlin Services SE, Italy</p>		
Milan, 17 October 2017		
<p><small>XL Insurance Company SE, Rappresentanza Generale per l'Italia Sede Sociale in Londra - UK Registro : Registrar of Companies for England and Wales n° SE 80, Capitale Sociale Euro 259.156.875 i.v. - Impresa autorizzata all'esercizio delle assicurazioni a norma dell'art.28 del decreto legislativo n. 209/2005 del 07 Settembre 2005, Registro Imprese di Milano n. 160199/1998, R.E.A. di Milano n. 1562313, Codice Fiscale e P. Iva n. 12525420159</small></p>		



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valveIT Brass Gate Valve

Features

- PN 16
- Non - Rising Stem
- Screwed in Bonnet
- BS 5154 PN16, Series B
- ISO 228 / 1 Threaded Ends
- Single Piece Wedge

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
Seat : 17.6 bar

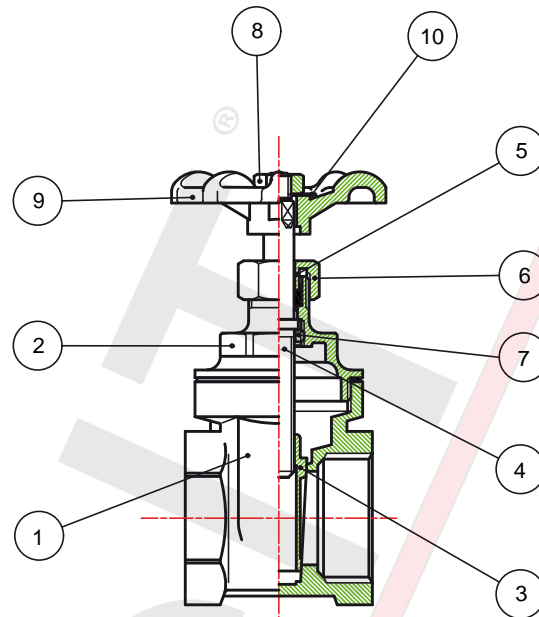
Pressure / Temperature Rating

7 bar at 170 deg C
16 bar from - 10 to 100 deg C

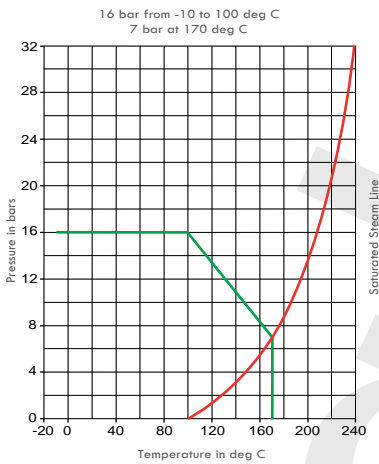
*On Request (Forward Delivery)

- Available with NPT Threads
- Available in MSS - SP - 80 Standard
- Available with Locking Device
- Available in other material grades

*Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body (1/4" to 2")	Brass: CW 617 N - UNI - EN12165
2	Bonnet	Brass: CW 617 N - UNI - EN12165
3	Wedge	Brass: DELTA C EN1982 CB 754S
4	Stem	Brass: CW 614 N - UNI - EN12164
5	Gland packing	Brass: CW 614 N - UNI - EN12164
6	Gland nut (1/4" to 1" 1/2)	Brass: CW 614 N - UNI - EN12164
	Gland nut (2")	Brass: CW 617 N - UNI - EN12165
7	Gasket	Fibre washer
8	Top handwheel nut	Zinc plated steel
9	Handwheel	Aluminium, with red plastic coating
10	Nameplate	Aluminum

Dimensions & Weights

Nominal size D [inches]	Dimensions			Weight Gr	Kv Value
	L [mm]	H [mm]	M [mm]		
1/2"	38	68	45	172.00	11
3/4"	44	76	50	240.00	29
1"	48	90	55	368.00	43
1"1/4	52	108	60	538.00	81
1"1/2	58	126	70	694.00	125
2"	62	146	80	1100.00	220

valveIT Bronze Gate Valve (Threaded)

Features

- PN 20
- Non - Rising Stem
- Screwed in Bonnet
- ISO 228 / 1 Threaded Ends

Application

HVAC System, Cold and Hot Water

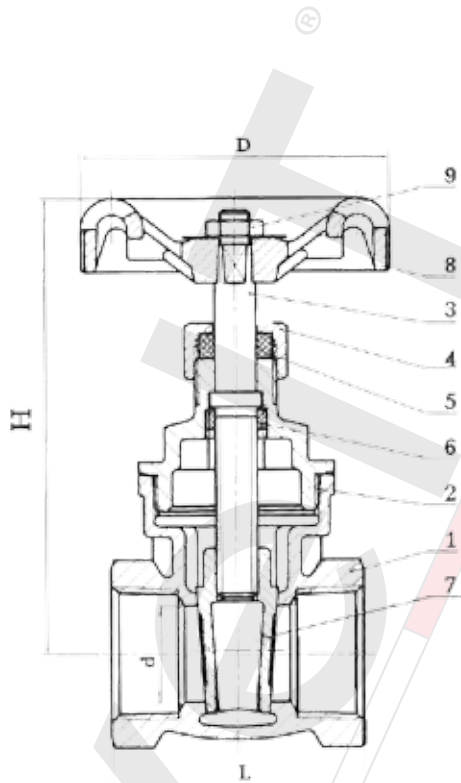
Hydrostatic Test Pressure

- Body : 30 bar
- Seat : 22 bar
- Pressure Rating : PN20

Working Medium: Water, Oil, Steam
 Working Temperature: t < 170 C

Pressure / Temperature Rating

- 7 bar at 170 deg C
- 20 bar from - 10 to 100 deg C



Material Specification

No	Component	Material
1	Body	Bronze CC491k
2	Bonnet	Bronze CC491k
3	Stem	Dzr Brass CW602n
4	Packing Nut	Brass CW617n
5	Packing	P.T.F.E
6	Stem Bush	Dzr Brass CW602n
7	Disc	Bronze CC491k
8	Handwheel	Aluminium
9	Handwheel Nut	Brass CW614n

Dimensions & Weights

Dimensions					
DN	INCH	d	L	H	D
15	1/2"	13	43	78	52
20	3/4"	19	49	92	60
25	1"	25	54	103	60
32	1 1/4"	32	62	116	70
40	1 1/2"	38	65	133	78
50	2"	50	75	156	92
65	2 1/2"	63	87	190	100
80	3"	76	105	215	110
100	4"	100	124	258	130

valveIT gate valve

Features

- PN 25
- Non - Rising Stem
- Screwed in Bonnet
- BS 5154 PN25, Series B
- BSPP Screwed Female Ends
- Single Piece Wedge

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

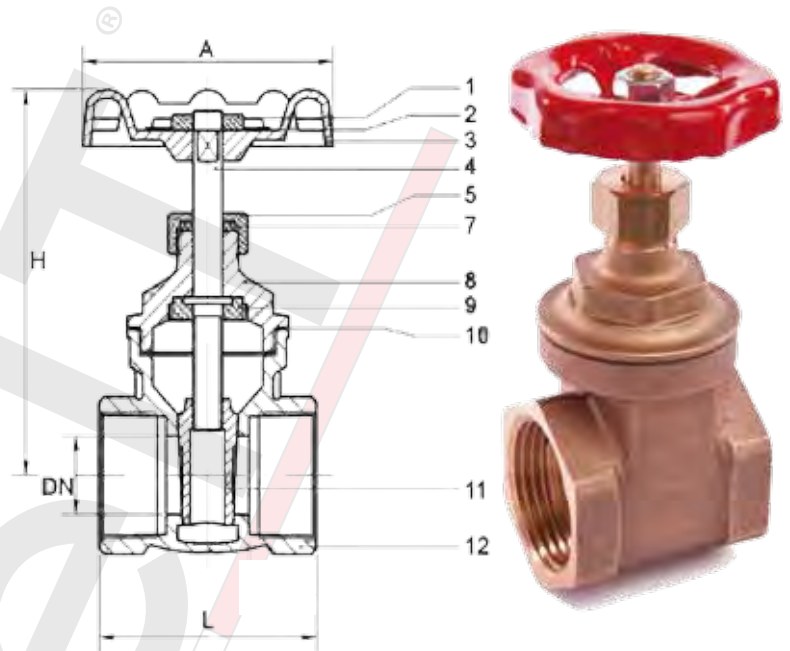
- Body : 37.5 bar
- Seat : 27.5 bar

Pressure / Temperature Rating

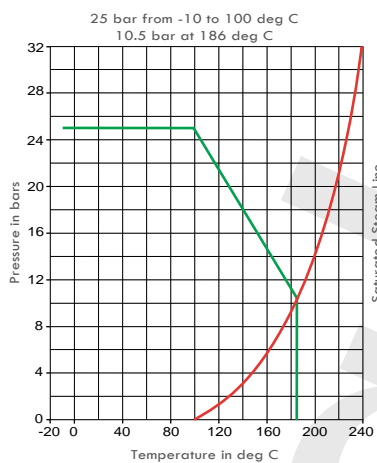
- 10.5 bar at 186 deg C
- 25 bar from -10 to 100 deg C

*On Request (Forward Delivery)

- Available with NPT Threads
- Available in MSS - SP - 80 Standard
- Available with Locking Device
- * Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Body	Bronze	G - CuSn5ZnPb (Rg5)
2	Wedge Disc	Bronze	G - CuSn5ZnPb (Rg5)
3	Gasket	Teflon	PTFE
4	Lock Nut	Brass	CuZn39Pb3
5	Bonnet	Bronze	G - CuSn5ZnPb (Rg5)
6	Packing	PTFE	PTFE
7	Gland	Brass	CuZn39Pb3
8	Packing Nut	Brass	CuZn39Pb3
9	Stem	DZR Brass(HT)	-
10	Hand Wheel	Aluminium	-
11	Name Plate	Aluminium	-
12	Nut	Steel	-

Dimensions & Weights

Nominal Size	Dimensions				Weight Kg	Kv Value m ³ /h
	DN (Inches)	L (mm)	H (mm)	DN (mm)		
1/2	46.5	75	13.5	55	0.300	36
3/4	51.5	88	19.5	63	0.435	45
1	57.5	100	25	63	0.638	82
1 1/4	64.5	112	32	70	1.000	115
1 1/2	68	130	38	80	1.235	196
2	77	150	48	90	1.890	285

valveIT Bronze Lock Shield Valve

Features

- Bronze Body
- PN 20
- Screwed in Bonnet with lock shield arrangement
- T - key Operation
- ISO 228 / 1 Threaded Ends

Application

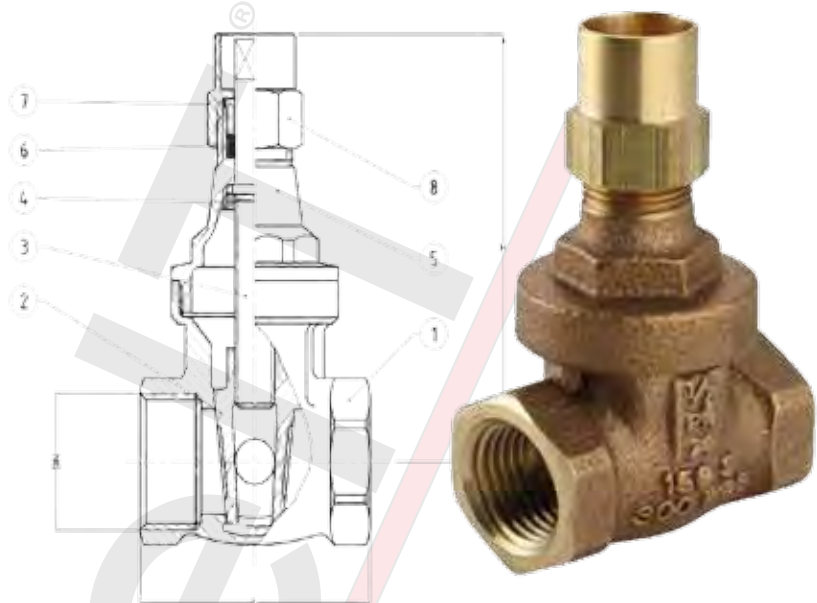
HVAC system, Cold and Hot water

Hydrostatic Test Pressure

Body : 30 bar
 Seat : 22 bar

Pressure / Temperature Rating

20 bar from -10 to 100 deg C



Material Specification

No	Component	Material
1	Body	Bronze - CC491K UNI EN1982
2	Wedge	Brass - CW617N UNI EN12165
3	Stem	Brass - CW614N UNI EN12164
4	Stem Ring	Brass - CW614N UNI EN12164
5	Bonnet	Brass - CW617N UNI EN12165
6	Packing	PTFE
7	Pack Gland	Brass - CW614N UNI EN12164
8	Lock Shield	Brass - CW614N UNI EN12164

Dimensions & Weights

Nominal Size	D (mm)	H (mm)	Weight (kg)
1/2"	49	63.5	0.282
3/4"	51	79.5	0.377
1"	57	92.5	0.542
1 1/4"	68	120	0.896
1 1/2"	70	134.5	1.210
2"	82	161	1.900

*All Dimension are nominal (Indicative)

valveIT gate valve

Features

- PN 20
- Rising Stem
- Union Bonnet
- BS 5154 PN20, Series B
- ISO 228 / 1 Threaded Ends
- Single Piece Wedge
- Extended Bonnet

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 30 bar

Seat : 22 bar

Pressure / Temperature Rating

9 bar at 180 deg C

20 bar from - 10 to 100 deg C

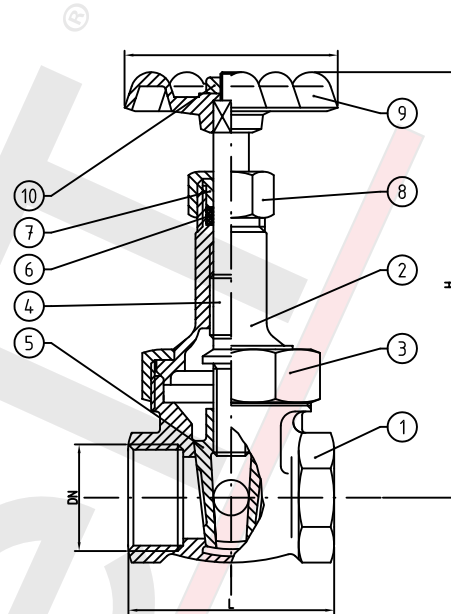
*On Request (Forward Delivery)

Available with NPT Threads

Available in MSS-SP - 80 Standard

Available with Locking Device

*Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	Bronze - CC491K UNI EN1982
2	BONNET	Brass - CW617N UNI EN12165
		Bronze - CC491K UNI EN1982
3	Union Nut	at 3/8" to 2"
		at 2"1/2 to 4"
4	Stem	Brass - CW617N UNI EN12165
		Bronze - CC491K UNI EN1982
5	Wedge	at 3/8" to 3"
		4"
6	Packing	AF / 15 / MA (Patented)
7	Pack. Gland	Brass - CW614N UNI EN12164
8	Pack Nut	Brass - CW617N UNI EN12165
9	Handwheel	ALUMINIUM - GD12FE UNI EN1706
10	Wheel Nut	Steel - 65 UNI 5589

Dimensions & Weights

Size Mark	Dimensions										
	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"	2"1/2"	3"	4"
D mm	50	50	50	55	60	70	80	95	110	110	130
L mm	50	50	50	51	57	68	71	82	97	107	120
H mm	102	102	102	127	140	167	187	231	270	325	365
Weight kg	0.330	0.330	0.330	0.500	0.680	1.100	1.450	2.350	3.600	5.550	8.550

valveIT globe Valve

Features

- PN 16
- BS 5154 PN16, Series B
- Rising Stem and Rising Hand Wheel
- Screwed in Bonnet
- ISO 228 / 1 Threaded Ends
- Metal Seated

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
Seat : 17.6 bar

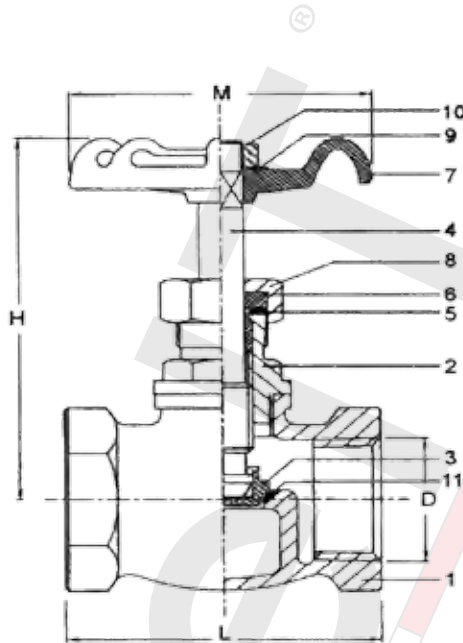
Pressure / Temperature Rating

7 bar at 170 deg C
16 bar from -10 to 100 deg C

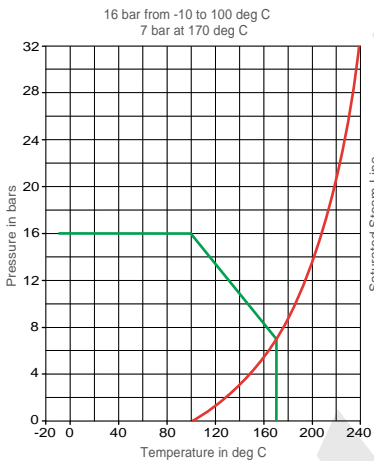
*On Request (Forward Delivery)

- Available with NPT Threads
- Available in other PR rating
- Available in MSS - SP - 80 Standard

*Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Body	Bronze	G - CuSn5ZnPb (Rg5)
2	Bonnet	Bronze	G - CuSn5ZnPb (Rg5)
3	Disc upto 1 1/2"	Brass	CuZn39Pb3
3 a	from 2" - 4"	Bronze	G - CuSn5ZnPb (Rg5)
4	Stem	Brass (H.T)	CuZn39Pb3
5	Packing	PTFE	PTFE
6	Gland	Brass	CuZn39Pb3
7	Hand Wheel upto 2"	Aluminium	-
8	Packing Nut	Brass	CuZn39Pb3
9	Name Plate	Aluminium	-
10	Hand Wheel Nut	Steel	-
11	Seat	Bronze	G-CuSn5ZnPb (Rg5)

Dimensions & Weights

Nominal Size	Dimensions			Weight	Kv Value
D (Inches)	L (mm)	H (mm)	M (mm)	Kg	m ² / h
1/2	49	75	55	0.24	4.5
3/4	56	83	63	0.32	6
1	64	94	63	0.49	10
1 1/4	74	113	70	0.68	17.5
1 1/2	84	124.5	80	0.98	21.5
2	100	137	90	1.63	31.5

valveIT Swing Check valve

Features

- PN 16
- BS 5154 PN16, Series B
- Horizontal Swing Pattern
- Screwed in Cover
- Metal to Metal Seat
- ISO 228 / 1 Threaded Ends
- Suitable for Mounting in Horizontal and Vertical Pipe (with flow upwards)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 24 bar
- Seat : 17.6 bar

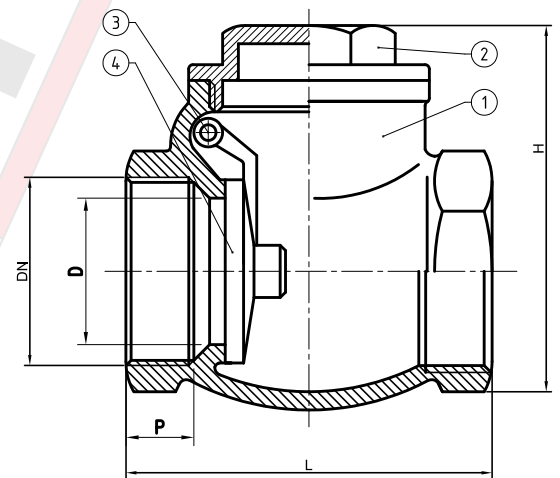
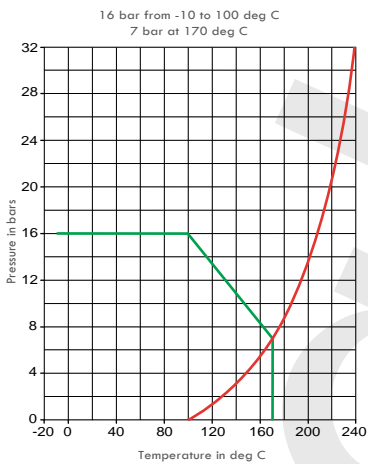
Pressure / Temperature Rating

- 7 bar at 170 deg C
- 16 bar from - 10 to 100 deg C

*On Request (Forward Delivery)

- Available with NPT Threads
- Available in MSS - SP - 80 Standard
- Available in other material grades
- *Subject to minimum order quantity

Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	Brass - UN617N Uni EN12165
2	Cap	Brass - UN617N Uni EN12165
3	Pin	Brass - UN614N Uni EN12164
4	Disc	Brass - UN617N Uni EN12165

Dimensions & Weights

DN	Dimensions					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
P mm	8	8	10	10	10	11
L mm	47	53	63	74	87	97
H mm	46	51	61	73	85	94
D mm	15	20	25	33	37	47
Weight Kg	0.161	0.233	0.352	0.458	0.724	1.010

valveIT Bronze Swing Check Valve

Features

- PN 25
- BS 5154 PN25, Series B
- Horizontal Swing Pattern
- Screwed in Cover
- Metal to Metal Seat
- ISO 228 / 1 Threaded Ends
- Suitable for Mounting in Horizontal and Vertical Pipe (with flow upwards)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

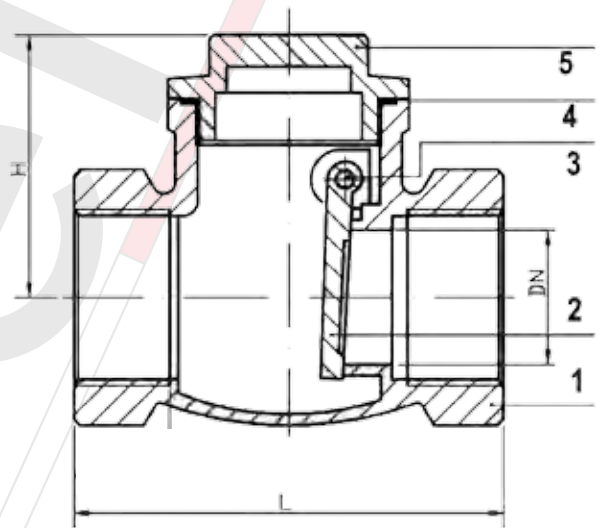
- Body : 37.5 bar
- Seat : 27.5 bar

Pressure / Temperature Rating

- 10.5 bar at 186 deg C
- 25 bar from -10 to 100 deg C

*On Request (Forward Delivery)

- Available with NPT Threads
- *Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Body	Bronze	CuSn5Zn5Pb5 (Rg5)
2	Disc	Bronze	CuSn5Zn5Pb5 (Rg5)
3	Pin	Brass	CuZn39Pb3
4	Gasket	PTFE	PTFE
5	Cover	Bronze	CuSn5Zn5Pb5 (Rg5)

Dimensions & Weights

Nominal Size	Dimensions			Weight Kg	Kv Value m ³ / h
	D (Inches)	L (mm)	DN (mm)		
1/2	57	13	38	0.255	5
3/4	64.5	18.5	41	0.340	8.5
1	76	24	47	0.545	12
1 1/4	90	30.5	57	0.875	21.5
1 1/2	100.5	37	63	1.205	35
2	119	47	73	1.870	55

valveIT Bronze Swing Check Valve

Features

PN 20
 BS 5154 PN 16, Series B
 Horizontal Swing Pattern
 Screwed in cover
 ISO 228 / 1 Threaded Ends
 Suitable for mounting in Horizontal and Vertical Pipe (with flow upwards)

Application

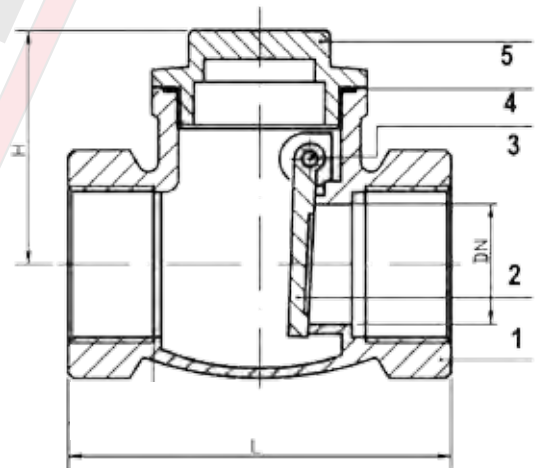
HVAC System, Cold and Hot Water
 Hydrostatic Test Pressure
 Body: 30 bar
 Seat: 22 bar

Pressure / Temperature Rating

7 bar at 170 deg C
 16 bar from - 10 to 100 deg C

*On Request (Forward Delivery)

Available with NPT Threads
 Available in MSS - SP - 80 Standard
 Available in other material grades
 *Subject to minimum order quantity



Material Specification

No	Component	Material
1	Body	Bronze - C83600 ASTM B62
2	Cap	Bronze - CW617N UNI EN12165
3	Pin	Brass - CW614N UNI EN12164
4	Disc	PTFE - CW617N UNI EN12165

Dimensions & Weights

Nominal Size	Dimensions		Weight kg
	D (inches)	L (mm)	
1/2	52	38	0.223
3/4	66.5	45	0.365
1	71	48.5	0.495
1 1/4	90	58	0.726
1 1/2	87	62	0.832
2	110	67	1.380

valveIT Bronze Lift Check Valve

Features

PN 16
 BS 5154 PN 16, Series B
 Lift type pattern
 ISO 228 / 1 Threaded Ends
 Suitable for Mounting in Horizontal and Vertical Pipe (with flow upwards)

Application

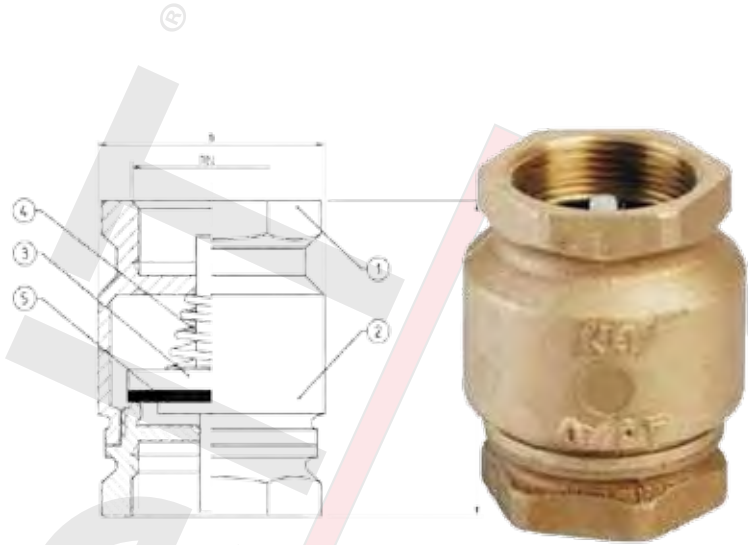
HVAC system, Cold and Hot Water
 Hydrostatic Test Pressure
 Body: 24 bar
 Seat: 17.6 bar

Pressure / Temperature Rating

7 bar at 170 deg C
 16 bar from - 10 to 100 deg C

***On request (Forward Delivery)**

Available with NPT Threads
 Available in MSS - SP - 80 Standard
 Available in other material grades
 *Subject to minimum order quantity



Material Specification

No	Component	Material
1	Body	BRONZE - CC491K UNI EN1982
2	Seat	BRONZE - CC491K UNI EN1982
3	Disc Holder	HOSTAFORM POM - DIN5735
4	Spring	STAINLESS STEEL - UNI 10270 - 1
5	Disc	NBR 70 SHORE

Dimensions & Weights

Nominal Size	D (mm)	H (mm)	Weight (kg)
½"	30	56	0.155
¾"	37	60	0.210
1"	47	67	0.355
1 1/4"	60	76	0.570
1 1/2"	70	83	0.750
2"	84	92	1.265

valveIT Brass Y Type Strainer

Features

- PN 20
- Threaded Cap
- SS Screen
- Screen Perforations
1/2, 3/4, 1 - 0.4mm
1 1/4, 1 1/2, 2 - 0.5mm
- Threaded to ISO 228 / 1

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

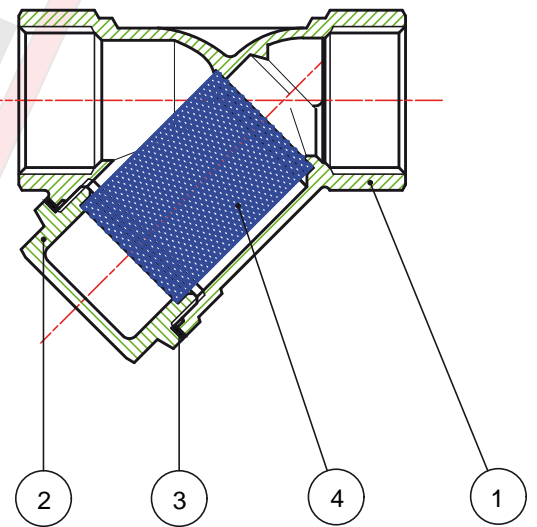
Body : 30 bar

Pressure / Temperature Rating

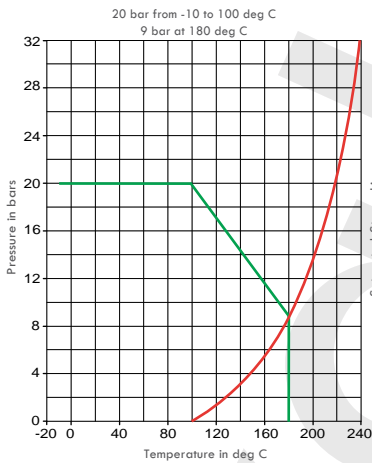
20 bar from - 10 to 100 deg C

*On Request (Forward Delivery)

- *Available with NPT Threads
- *Subject to minimum order quantity
- *Available in other material grades



Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	From 1/4" to 1" Brass: CW 617 N - UNI - EN12165 From 1" 1/4 to 3" Brass: DELTA C EN1982 CB 754S
2	Cap	Brass: CW 617 N - UNI - EN12165
3	Gasket	Fiber washer
4	Inner strainer	Rhoimboidal flattened sheet stainless steel AISI 304
5	Finishing	Brass sandblasted

Dimensions & Weights

Nominal size	Dimensions		Weight	Kv Value	PN at max 100°C
D [inches]	B [mm]	C [mm]	Gr		
1/2"	58	40	155,00	4,6	20
3/4"	70	50	236,00	7,3	20
1"	87	60	435,00	12,5	20
1"1/4	96	70	592,00	17	20
1"1/2	106	75	775,00	24,5	20
2"	126	90	1.290,00	36	20

Strainer

Bronze Strainer (Threaded)

Pressure Rating : PN20
 Working Medium: Water, Oil, Steam
 Working Temperature: t < 170 C
 Threaded to ISO 228 / 1
 Screen Perforations
 1/2, 3/4, 1 - 0.9mm
 1 1/4, 1 1/2, 2 - 1.5mm

Application

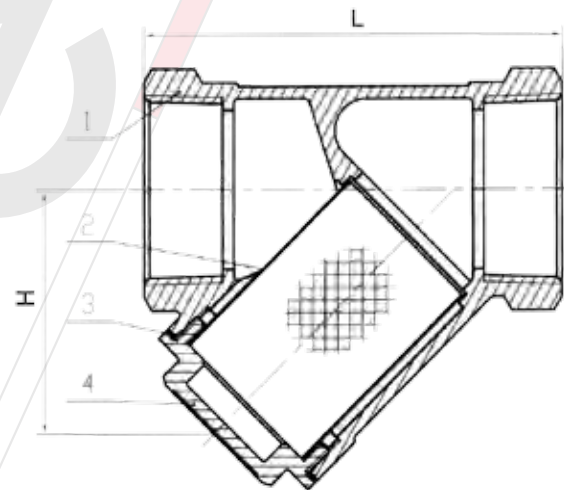
HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 30 bar

Pressure / Temperature Rating

20 bar from - 10 to 100 deg C



Material Specification

No	Component	Material
1	Body	Bronze CC491K
2	Screen	Stainless Steel Type304
3	Gasket	P.T.F.E
4	Cap	Bronze CC491K

Dimensions & Weights

DN	Dimensions			
	INCH	CM2	L	H
15	1/2"	60	58	33
20	3/4"	60	70	41
25	1"	60	88	49
32	1 1/4"	28	96	56
40	1 1/2"	28	107	62
50	2"	28	125	80

valveIT Bronze Y Type Strainer

Features

- PN 25
- Threaded Cap
- SS Screen
- 0.8 mm Screen Perforations
- Threaded to ISO 228 / 1

Application

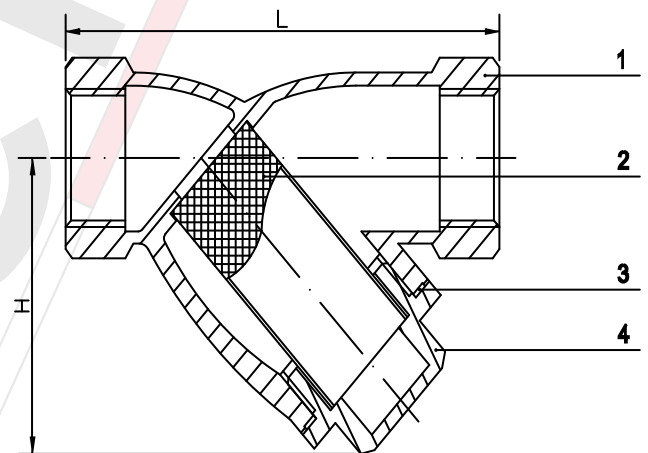
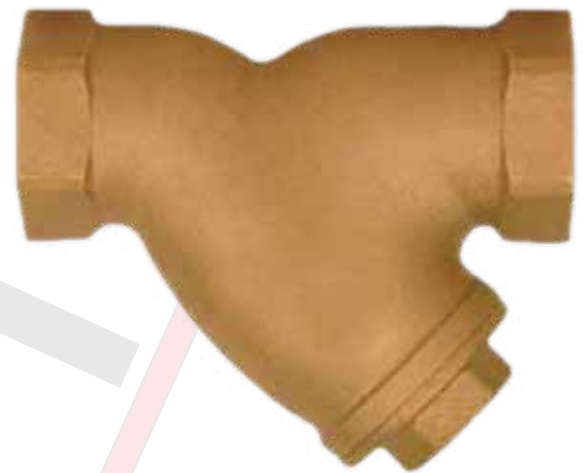
HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

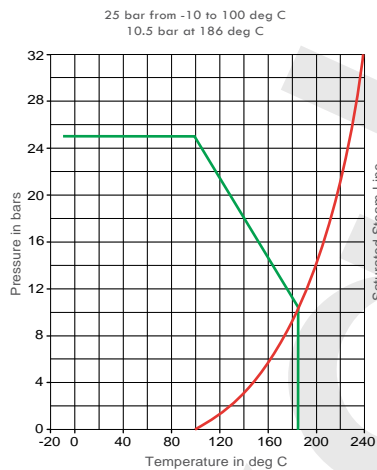
Body : 37.5 bar

Pressure / Temperature Rating

- 10.5 bar at 186 deg C
- 25 bar from -10 to 100 deg C



Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Body	Bronze	G-CuSn5ZnPb
2	Screen	Stainless Steel	X5CrNi1810
3	Cover	Bronze	G-CuSn5ZnPb
4	Gasket	Teflon	PTFE

Dimensions & Weights

Nominal Size D (Inches)	Dimensions		Weight Kg	Kv Value m³/h
	L (mm)	H (mm)		
1/2	76	46	0.270	4.1
3/4	91	56	0.440	6.8
1	108	68	0.700	9.5
1 1/4	124	80	1.070	17
1 1/2	144	91	1.550	26
2	172	111	2.550	34

valveIT Brass Ball Valve

Features

- PN 25 / 32
- Forged Brass Body, Nickel + Chrome Plated body
- Chrome Plated Brass Ball
- Full Bore, Two Piece Body
- PTFE Seat
- ISO 228 / 1 Threaded Ends

Application

HVAC System, Air, Cold and Hot Water

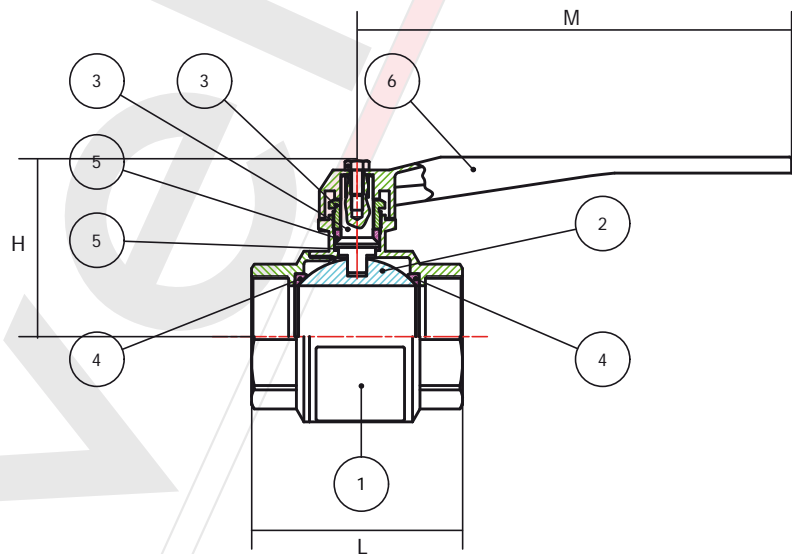
Hydrostatic Test Pressure

15mm-25mm	32-50mm
Body : 48 bar	37.5 bar
Seat : 35.2 bar	27.5 bar

*On Request (Forward Delivery)

- Available with NPT Threads
- Available in MSS - SP Standard
- Available in PN 20 rating (Light Duty)
- *Subject to minimum order quantity

Temp. Operating Range: -10 to 100 C
 Pressure Rating: PN25-32
 for sizes till 2"
 PN16 for sizes 2 1/2, 3 & 4"



Material Specification

No	Component	Material
1	Body	Brass CW617N - UNI - EN 12165
2	Ball (1/2")	Brass CW614N - UNI - EN 12164
	Ball (3/4" to 1")	Brass CW617N - UNI-EN 12165
	Ball (1" 1/4 to 4")	Brass: DELTA CS UNI-EN1982 CB 7535
3	Stem and gland	Brass CW614N - UNI-EN 12164
4	Seat	Pure P.T.F.E.
5	Stem packing and antifriction ring	Pure P.T.F.E.
6	Operating lever	Aluminium with red plastic coating finishing
7	Finishing	Sandblasted chromed

Dimensions & Weights

Nominal size D [inches]	Dimensions			Weight Gr	Kv Value	PN at max 100°C
	L [mm]	H [mm]	M [mm]			
1/2"	55	45	90	200,00	15,5	32
3/4"	58	48	90	278,00	31,7	32
1"	68	59	115	456,00	58,5	32
1 1/4"	83	65	115	680,00	96	25
1 1/2"	89	80	145	985,00	160	25
2"	105	93	180	1.550,00	269	25
2 1/2"	131	110	270	-	395	16
3"	155	120	270	-	535	16
4"	195	155	320	-	900	16

valveIT Bronze Ball Valve (Threaded)

Features

- PN 25
- Bronze Body
- Full Bore, Two Piece Body
- PTFE Seat
- ISO 228 / 1 Threaded Ends

Application

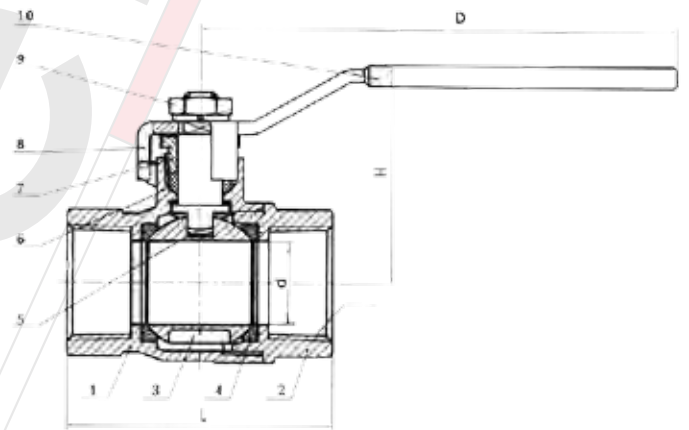
HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 37.5 bar
- Seat : 27.5 bar
- Pressure Rating : PN25

Pressure / Temperature Rating

- Working Medium: Water, Oil, Steam
- Working Temperature: t < 170 C
- 7 bar at 170 deg C
- 25 bar from - 10 to 100 deg C



Material Specification

No	Component	Material
1	Body	Bronze CC491k
2	Seat Retainer	Bronze CC491k
3	Ball	DZR Brass CW617N
4	Seat	P.T.F.E
5	Stem	DZR Brass CW602N
6	Packing	P.T.F.E
7	Gland Nut	Brass CW617N
8	Lever	Mild Steel (Chrome Plated)
9	Lever Nut	Stainless Steel
10	Lever Cover	PVC

Dimensions & Weights

Dimensions					
DN	INCH	d	L	H	D
15	1/2"	14	53	44	95
20	3/4"	19	61	51	110
25	1"	24	71	55	110
32	1 1/4"	31	85	65	140
40	1 1/2"	38	92	70	140
50	2"	49	114	83	160
65	2 1/2"	63	134	118	220
80	3"	73	152	132	270
100	4"	90	182	150	280

valveIT Ductile Iron gate valve

Features

- DN50 - DN300 : Ductile Iron Material
- PN 16
- Non - Rising Stem, Inside Screw
- Resilient Seat
- Epoxy Coated
- Bolted Bonnet, Raised Face Flanges
- high tightness (leakproofness class - A acc. EN - 12266 - 1)
- face of face dimensions: series 14 acc EN 558 - 1, F4 acc. to DIN 3202
- flange end connections: EN- 1092 - 2
- flanged to BS 4504 PN 16 (EN 1092) / DIN 2633 (EN 1092)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 24 bar
- Seat : 17.6 bar

Pressure / Temperature Rating

16 bar at 0-100deg c

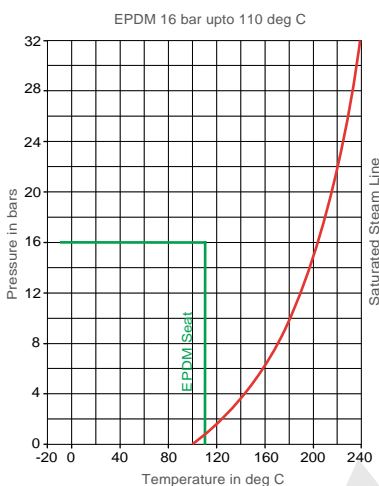
Coating

- Internal and External coated with Epoxy paint RAL 5002 (Blue)
- Coating Thickness (DFT) - 100 Microns

*On Request (Forward Delivery)

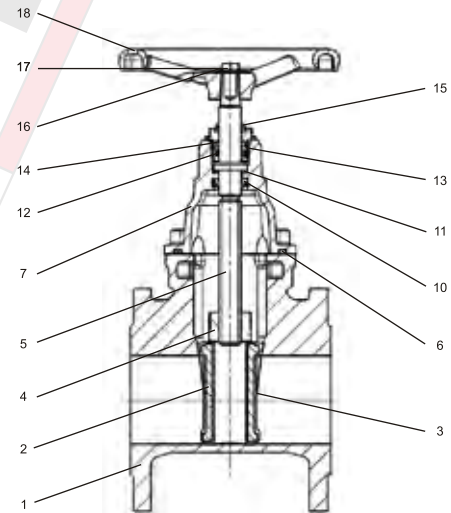
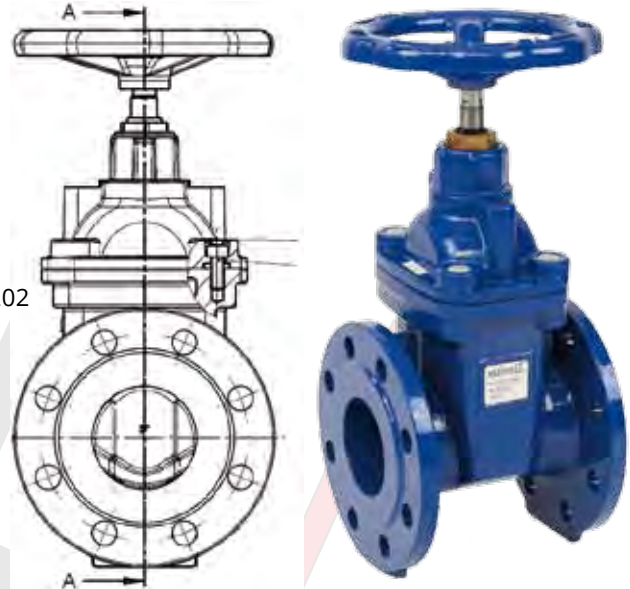
- Available in MSS - SP - 70 (CL 125, CL 250)
- Available with Locking Device
- Available with other material, trim, other face to face dim
- *Subject to minimum order quantity

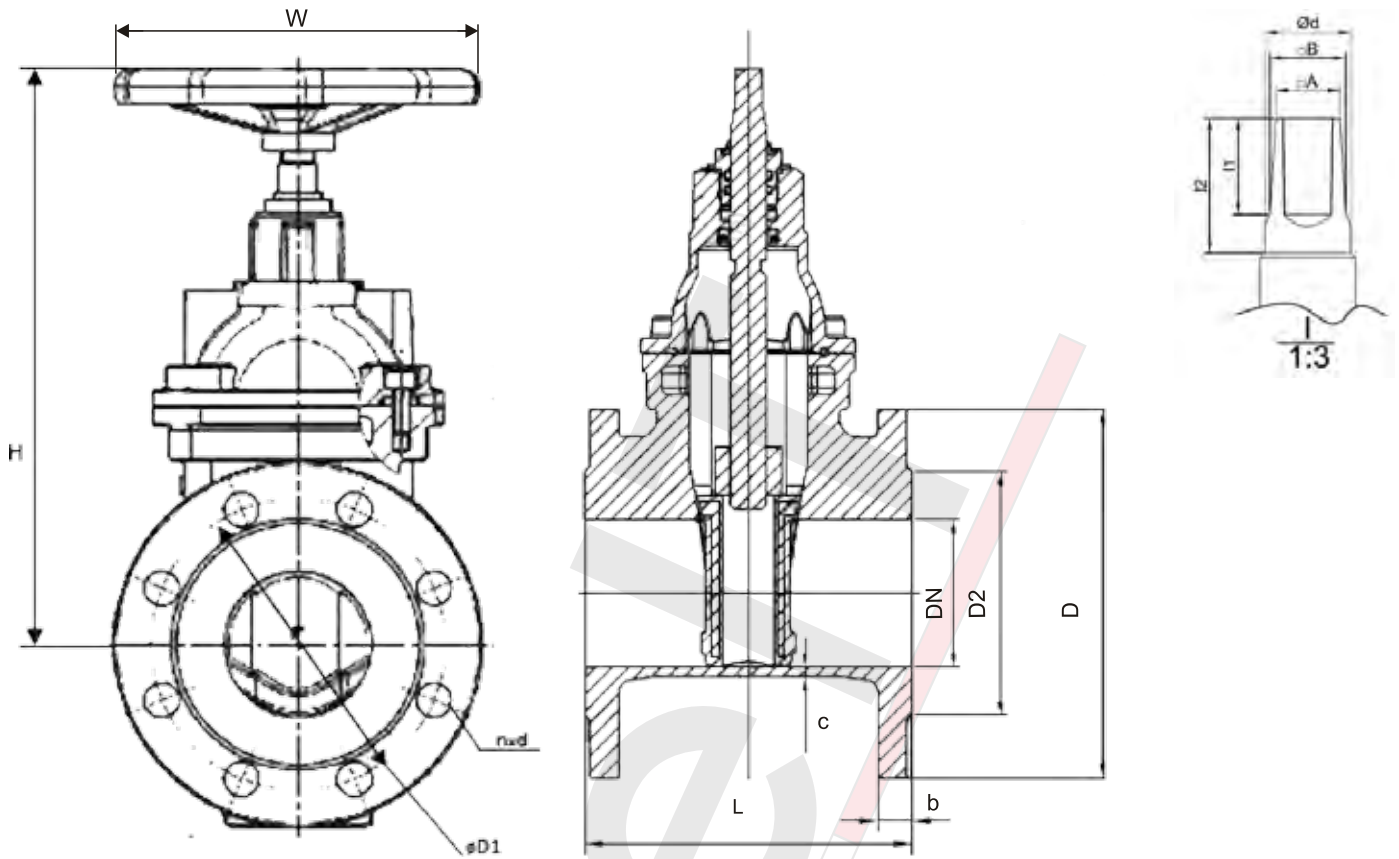
Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	DI - EN - GJS-500 - 7 5.3200(ex.JS1050)
2	Wedge casting	EN - GJS - 500 - 7 5.3200(ex.JS1050)
3	Cover of wedge	EPDM
4	Threaded bush	CuZn36pb2As
5	Stem	X20Cr13
6	Cover seal	EPDM
7	Cover	EN - GJS - 500 - 7 5.3200 (ex.JS1050) 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	CuZn36Pb2As
14	O-ring	EPDM
15	Seal	NBR / EPDM
16	Washer	C15,C15R, C15E
17	Nut	C15, C15R, C15E
18	Hand Wheel	EN - GJS - 500 - 7 5.3200 (ex.JS1050) 8.8





Dimensions & Weights

	H	L	D	D1	D2	b	n	d	w	c	□A	□B	φd	11	12	kg
50	240	150	165	125	99	19	4	19	160	5,0	12,8	13,8	17	20	28	9,0
65	250	170	185	145	118	19	4	19	160	5,0	12,8	13,8	17	20	28	11,8
80	312	180	200	160	132	19	8	19	200	5,0	14,5	15,6	18	22	27	14,2
100	335	190	220	180	156	19	8	19	250	6,0	17,0	19,5	24	25	32	18,6
125	385	200	250	210	184	19	8	19	250	6,0	17,2	19,7	24	25	32	26,6
150	438	210	285	240	211	19	8	23	320	7,0	18,7	21,7	24	30	40	36,2
200	543	230	340	295	266	20	12	23	320	7,5	20,0	22,0	24	30	40	58,4
250	645	250	405	355	319	22	12	28	320	9,0	20,0	22,0	26	30	40	85,4
300	728	270	460	410	370	24,5	12	28	360	10,0	20,0	22,0	26	30	40	132,0

valveIT Ductile Iron gate valve

Features

- DN50 - DN600 : Ductile Iron Material
- PN 16
- Non - Rising Stem, Inside Screw
- Resilient Seat
- Epoxy Coated
- Bolted Bonnet, Raised Face Flanges
- high tightness (leakproofness class - A acc. EN - 12266-1)
- Comply with BS 5163 (EN 1074)
- Face to face dim as per EN558 - 1 series 3
- flange end connections: EN-1092 - 2
- flanged to BS 4504 PN 16 (EN 1092) / DIN 2633 (EN 1092)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 24 bar
- Seat : 17.6 bar

Pressure / Temperature Rating

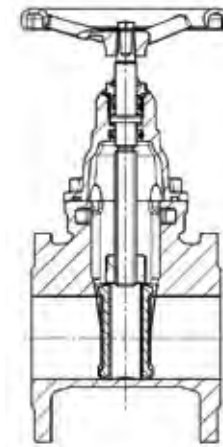
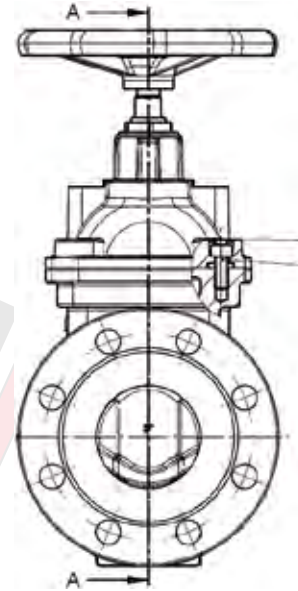
16 bar at 0 - 100deg c

Coating

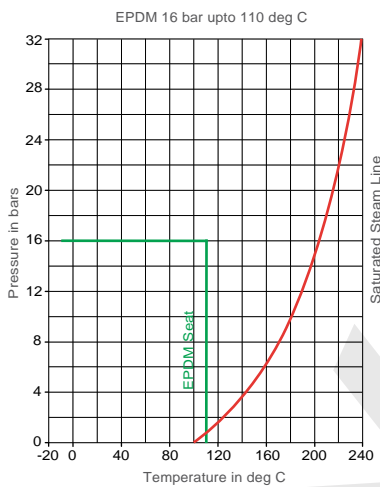
Internal and External coated with Epoxy paint RAL 5002 (Blue)
Coating Thickness (DFT) - 200 Microns (min)

*On Request (Forward Delivery)

- Available with stem cap
- Available with Locking Device
- Higher Sizes / PN 25 rated available
- *Subject to minimum order quantity

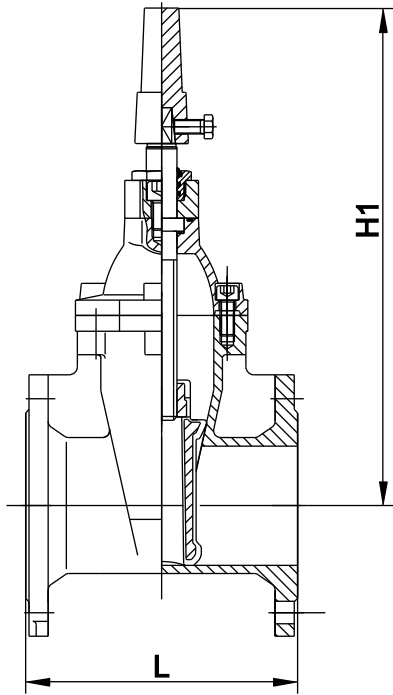


Pressure Vs Temperature Graph

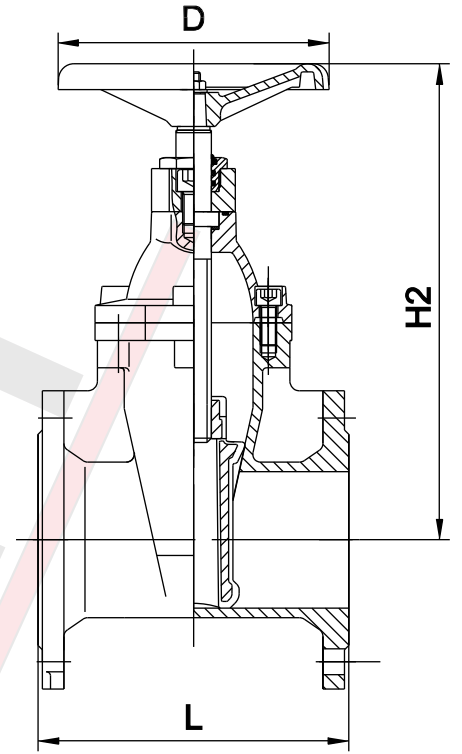


Material Specification

No	Component	Material	Spec
01	Body	Ductile Iron	ENJS1050
02	Bonnet	Ductile Iron	ENJS1050
03	Wedge	DI + EPDM	ENJS1050
04	Stem	Stainless Steel	SS 420
05	Gland Packing	Graphite	-
06	Bonnet Gasket	Graphite	-
07	Hand Wheel	Ductile Iron	ENJS1050



A



B

Dimensions & Weights

DN	mm inch	50 2	65 2-1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24
L		178	190	203	229	254	267	292	330	356	381	406	432	457	508
H2		254	296	349	396	477	548	694	840	960	842	931	1058	1146	1298
D		160	160	200	200	250	250	280	370	370	508	558	610	610	762

*Note: H1 Dimensions please consult us

valveIT Ductile Iron Gate Valve

Features

- DN50 - DN300 : Ductile Iron Material
- PN 16, BS 5150
- Rising Stem, Outside Screw and Yoke
- Epoxy Coated, Copper alloy Trim
- BS 5150 PN 16 (EN 1171)
- Bolted Bonnet, Raised Face Flanges
- Flanged to BS 4504 PN 16 (EN 1092) / DIN 2633 (EN 1092)
- Flanges Drilled to DIN 2501 (EN 1092)
- Compliance to BS 5163 PN 16 (EN 1074)
- Solid Wedge

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 24 bar
- Seat : 17.6 bar

Pressure / Temperature Rating

- 10 bar at 180 deg C
- 16 bar from - 10 to 120 deg C

Coating

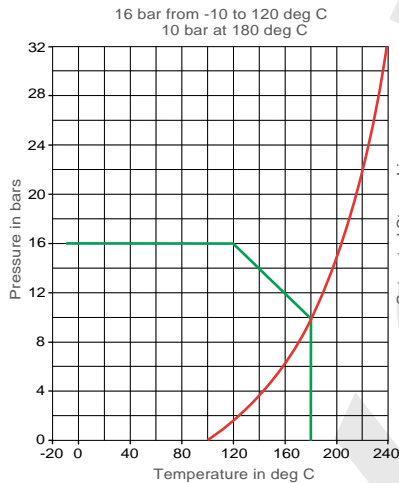
- Internal and External coated with wet Epoxy paint RAL 5002 (Blue)
- Coating Thickness (DFT) - 100 Microns

*On Request (Forward Delivery)

- Available with Locking Device
- Higher Sizes
- Other Material

*Subject to minimum order quantity

Pressure Vs Temperature Graph

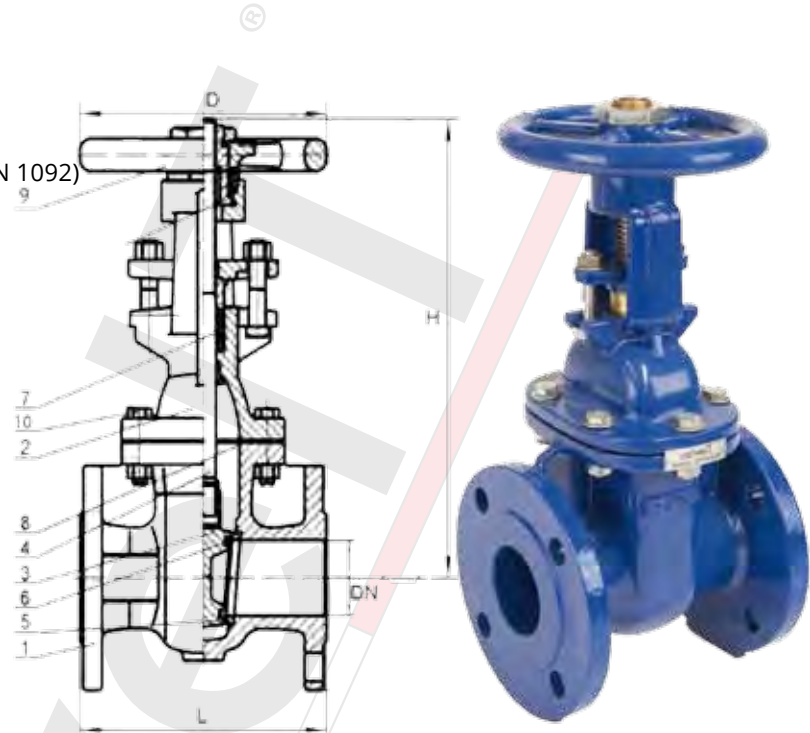


Material Specification

No	Component	Material	Spec
01	Body	Ductile Iron	ENJS1050
02	Bonnet	Ductile Iron	ENJS1050
03	Wedge	Ductile Iron	ENJS1050
04	Stem	Brass	CuZn39Pb3
05	Body Seat	Bronze	EN1982CC491K
06	Disc Seat	Bronze	EN1982CC491K
07	Gland Packing	Graphite	-
08	Bonnet Gasket	Graphite	-
09	Hand Wheel	Ductile Iron	ENJS1050
10	Bonnet Bolt & Nuts	Carbon Steel	Grade 4.8

Dimensions

		Dimensions (mm)								
Size		50	65	80	100	125	150	200	250	300
L	EN558 - 1 Series 3									
	ASME B16. 10	178	191	203	229	254	267	292	330	356
	EN558 - 1 Series 14	150	170	180	190	200	210	230	250	270
	EN558 - 1 Series 15	250	270	280	300	325	350	400	450	500
BS 3464		146	159	165	171	191	210	241	273	305
H		362	427	508	620	709	809	990	1180	1352
D		183	183	254	254	305	305	355	455	455



valveIT Ductile Iron Gate Valve

Features

- DN50 - DN600 : Ductile Iron Material
- PN 16, BS 5163
- Rising Stem, Outside Screw and Yoke
- Epoxy Coated Resilient Seat
- Bolted Bonnet, Raised Face Flanges
- Flanged to BS 4504 PN 16 (EN 1092) / DIN 2633 (EN 1092)
- Flanges Drilled to DIN 2501 (EN 1092)
- Compliance to BS 5163 PN 16 (EN 1074)
- Face to face dim as per EN558 - 1 series 3

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
 Seat : 17.6 bar

Pressure / Temperature Rating

10 bar at 180 deg C
 16 bar from - 10 to 120 deg C

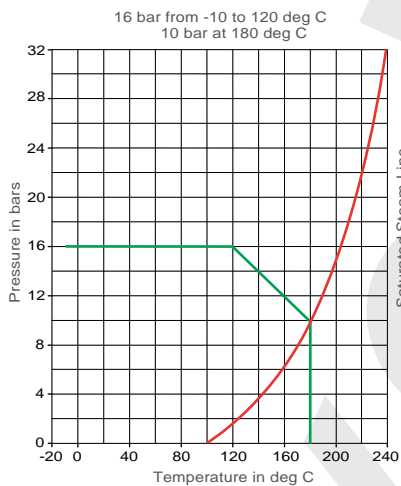
Coating

Internal and External coated with wet Epoxy paint RAL 5002 (Blue)
 Coating Thickness (DFT) - 200 Microns (min)

***On Request (Forward Delivery)**

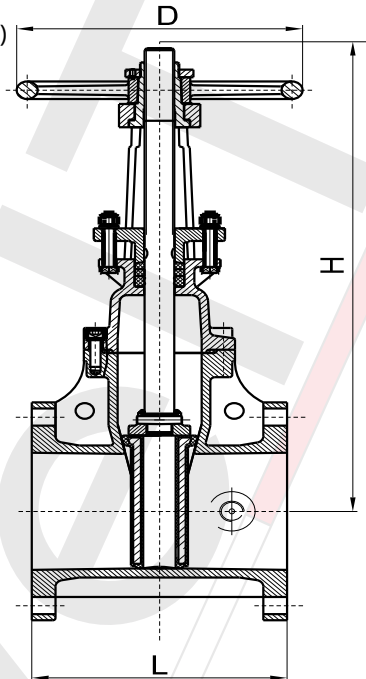
Available with Locking Device
 Higher Sizes / PN 25 rated available
 *Subject to minimum order quantity

Pressure Vs Temperature Graph



Material Specification

No	Component	Material	Spec
01	Body	Ductile Iron	ENJS1050
02	Bonnet	Ductile Iron	ENJS1050
03	Wedge	DI + EPDM	ENJS1050
04	Stem	Stainless Steel	SS 420
05	Gland Packing	Graphite	-
06	Bonnet Gasket	Graphite	-
07	Hand Wheel	Ductile Iron	ENJS1050



Dimensions

DN	Dimensions														
	inch	2	2 - 1/2	3	4	5	6	8	10	12	14	16	18	20	24
L	178	190	203	229	254	267	292	330	356	381	406	432	457	508	
H	254	296	349	396	477	548	694	840	960	741	816	936	1021	1173	
D	160	160	200	200	250	250	280	370	370	508	558	610	610	762	

valveIT Cast Iron Globe Valve

Features

- PN 16
- Technical Conditions - DIN 3356 (EN 13789)
- Face to Face Dimensions - DIN 3202 - Series F1 (EN 558)
- Rising Stem
- SS Trim - 13% Chrome, Bolted Bonnet
- Flanged to DIN 2633 (EN 1092) / BS 4504 PN 16 (EN 1092)
- Raised Face Flanges Drilled to DIN 2501 (EN 1092)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
Seat : 17.6 bar

Pressure / Temperature Rating

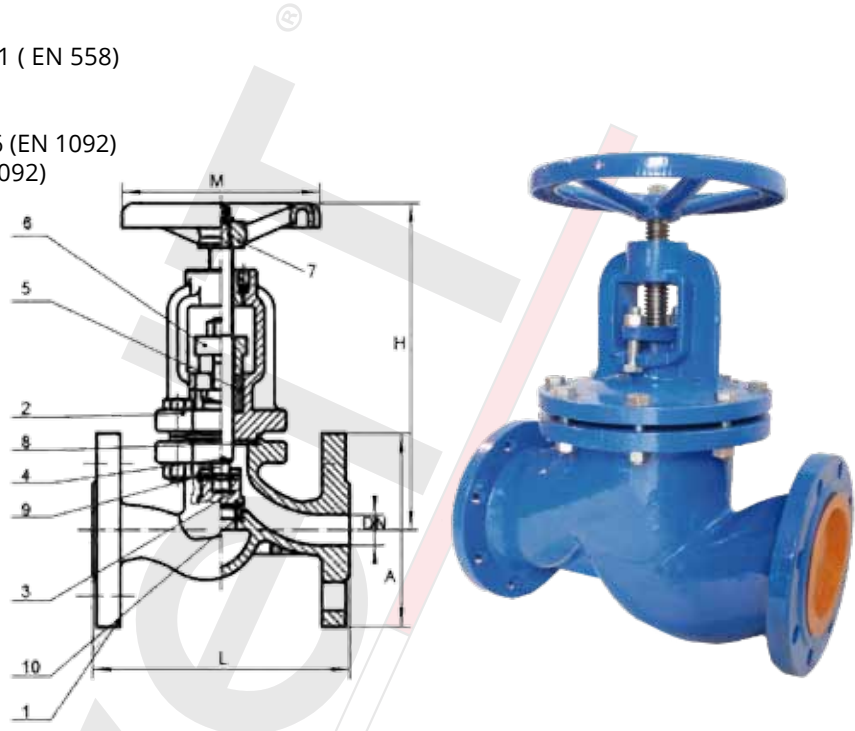
13 bar at 220 deg C
16 bar from - 10 to 120 deg C

Coating

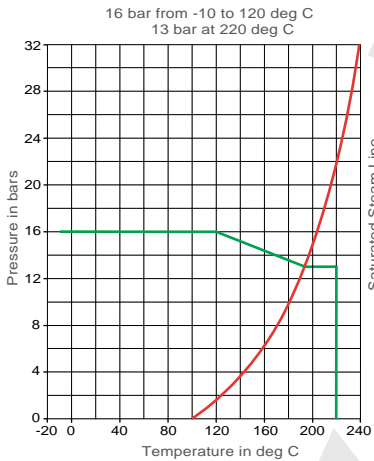
Internal and External coated with wet Epoxy paint (RAL 5002 Blue)
Coating Thickness (DFT) = 100 Microns

*On Request (Forward Delivery)

Available in Bronze Trim
Available in MSS - SP - 85 (CL 125, CL 250)
*Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Body	Cast Iron	1691GG25
2	Bonnet	Cast Iron	1691GG25
3	Disc	Cast Iron + SS Overlay	1691GG25
4	Stem	Stainless Steel	X20Cr13
5	Gland Packing	Graphite	-
6	Gland	Cast Iron	1691GG25
7	Hand Wheel	Cast Iron	1691GG25
8	Bonnet Gasket	Graphite / Steel	-
9	Disc Lock Nut	Steel	9S20K
10	Seat	Stainless Steel	X20Cr13

Dimensions & Weights

Nominal Size DN (mm)	Dimensions				Weight Kg	Kv Value m ³ /h
	L (mm)	A (mm)	H (mm)	M (mm)		
50	230	165	261.5	140	14.7	-
65	290	185	293	200	17.8	79
80	310	200	341	200	35.0	115
100	350	220	381	240	40.0	181
125	400	250	419	280	60.0	225
150	480	285	485	315	82.0	364
200	600	340	569	360	142.0	690
250	730	405	780	520	243.0	1010
300	850	460	890	520	341.0	1575

valveIT Check Valve

Features

- DN50 - DN300 : Cast Iron Material
- PN 16
- BS 5153 PN16 (EN 12334)
- Epoxy Coated
- Swing Type Check Valve
- Bronze Trim, Bolted Cover
- Raised Face Flanges
- Flanged to BS 4504 PN16 (EN 1092)
- DIN 2633 (EN 1092)
- Flanges Drilled to DIN 2501 (EN 1092)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
 Seat : 17.6 bar

Pressure / Temperature Rating

13 bar at 220 deg C
 16 bar from - 10 to 120 deg C
 Suitable for mounting in Horizontal and Vertical Pipe (with flow upwards)

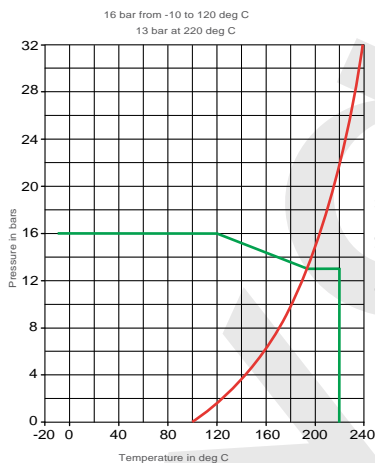
Coating

Internal and External coated with wet Epoxy Paint RAL 5002 (Blue)
 Coating Thickness (DFT) = 100 Microns

***On Request (Forward Delivery)**

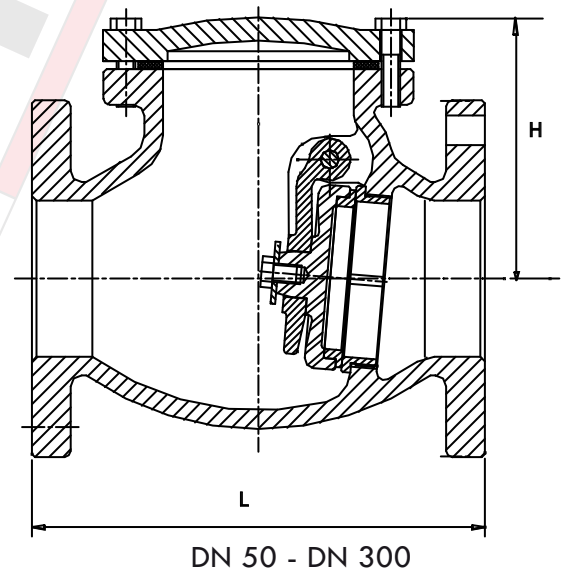
- Outside Lever and Weight, Dashpot arrangement
 - a. with Bronze Trim
 - b. with Rubber Disc Ring
 - c. Higher Sizes
- *Subject to minimum order quantity

Pressure Vs Temperature Graph



Material Specification

No	Component	Material	Spec
1	Body	Cast Iron	ENJL1040
2	Cover	Cast Iron	ENJL1040
3	Disc	Cast Iron	ENJL1040
4	Disc Seat Ring	Bronze	EN1982CC491K
5	Body Seat Ring	Bronze	EN1982CC491K
6	Hinge Pin	Stainless Steel	BS970 420S37
7	Gasket	Asbestos Free	-



Dimensions & Weights

Size	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
L	203	216	241	292	330	356	495	622	699
H	125	137	147	166	190	217	265	300	342
Weight (Kg)	11.5	16.5	21	28.5	42	55	104	168	244

valveIT Ductile Iron Check Valve

Features

- DN50 - DN300 : Ductile Iron Material
- PN 25
- BS 5153 PN25 (EN 12334)
- Epoxy Coated
- Swing Type Check Valve
- Bronze Trim, Bolted Cover,
- Raised Face Flanges
- Flanged to BS 4504 PN25 (EN 1092)
- DIN 2634 (EN 1092)
- Flanges Drilled to DIN 2501 (EN 1092)

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 37.5 bar
- Seat : 27.5 bar

Pressure / Temperature Rating

- 19 bar at 220 deg C
- 25 bar from - 10 to 120 deg C
- Suitable for mounting in Horizontal and Vertical Pipe (with flow upwards)

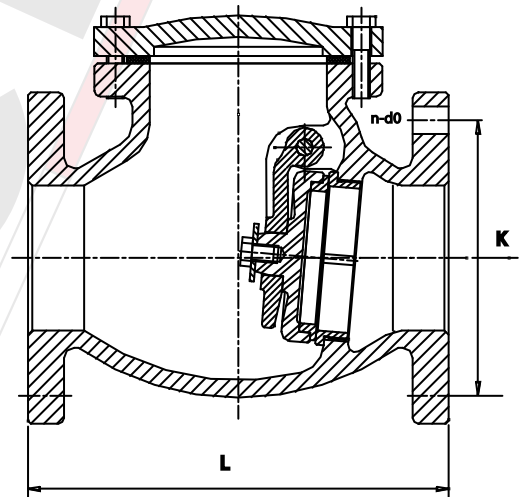
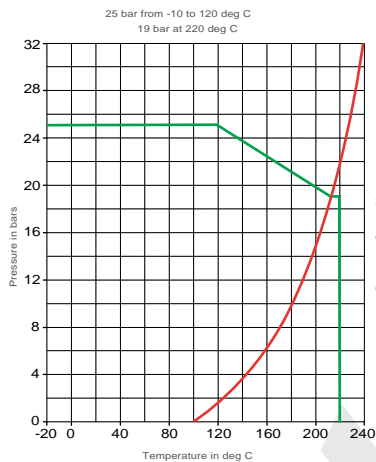
Coating

- Internal and External coated with wet Epoxy Paint RAL 5002 (Blue)
- Coating Thickness (DFT) = 100 Microns

*On Request (Forward Delivery)

- Outside Lever and Weight, Dashpot arrangement
- *Subject to minimum order quantity

Pressure Vs Temperature Graph



DN 50 - DN 300

Material Specification

No	Component	Material
1	Body	Ductile Iron
2	Cover	Ductile Iron
3	Disc	Ductile Iron
4	Disc Seat Ring	Bronze
5	Body Seat Ring	Bronze
6	Hinge Pin	Stainless Steel
7	Gasket	Asbestos Free

Dimensions & Weights

Nominal Size	Dimensions			
	D (mm)	L (mm)	K (mm)	n-do (mm)
* 50		203	125	4 - 18
* 65		216	145	8 - 18
* 80		241	160	8 - 18
* 100		292	190	8 - 22
* 125		330	220	8 - 26
* 150		356	250	8 - 26
* 200		495	310	12 - 26
* 250		622	370	12 - 30
* 300		699	430	16 - 30

valveIT Check Valve Dual Plate, Wafer Type

Features

DN50 - DN300 : Cast Iron Material
 PN 16
 EPDM Seat Ring

Application

HVAC System, Oil, Cold and Hot Water

Hydrostatic Test Pressure

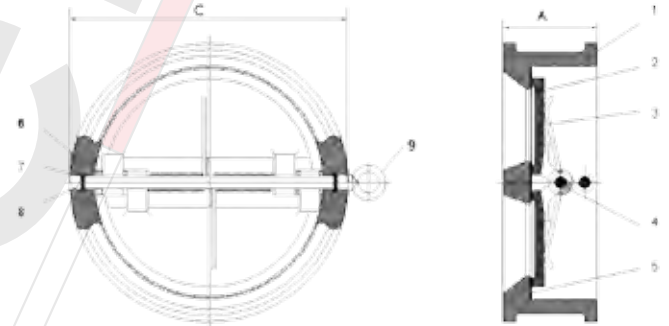
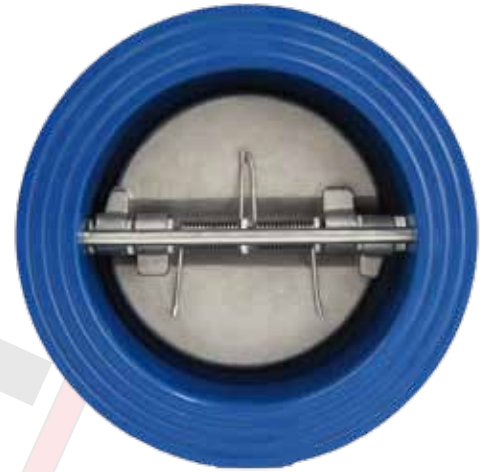
Body : 24 bar
 Seat : 17.6 bar

Pressure / Temperature Rating

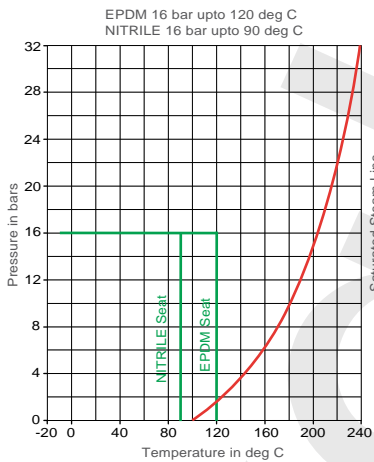
Nitrile Seating
 16 bar upto 90 deg C
 EPDM Seating
 16 bar upto 120 deg C
 Suitable for mounting in Horizontal and Vertical Pipe (with flow upward)
 Suitable for mounting between DIN and BS PN 16 Flanges

*On Request (Forward Delivery)

Available in other material grades
 Higher Sizes
 *Subject to minimum order quantity



Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	EN-GJL - 250, 5.1301 (ex.JL1040)
2	Plate	X5CrNi18 - 10
3	Spring	X5CrNi18 - 10
4	Pin	X5CrNi18 - 10
5	Seal	EPDM
6	Sleeve	teflon
7	Seal	EPDM
8	Screw	S235JR
9	Sling for DN 125 - DN 300	S235JR

Dimensions & Weights

DN mm	D min pipe	A mm	C	Kv m3/h	ΔT kg
40	36	43	91	34	1,2
50	42	43	107	34	1,5
65	60	46	127	54	2,0
80	66	64	142	95	2,8
100	86	64	162	200	4,1
125	115	70	192	320	6,4
150	143	76	218	467	8,5
200	197	89	273	990	13,5
250	231	114	328	1584	22
300	281	114	378	2783	30

valveIT Check Valve Dual Plate, Wafer Type



Features

- DN50 - DN600 : Ductile Iron Material
- PN 16
- EPDM Seat Ring
- Suitable for mounting between DIN and BS PN 16 Flanges
- VIT-25-WCC (with SS Disc)
- VIT-25-WCCD (with DI Disc)

Application

HVAC System, Oil, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
Seat : 17.6 bar

Pressure / Temperature Rating

EPDM Seating
16 bar upto 120 deg C

Suitable for mounting in Horizontal and Vertical Pipe (with flow upward)

Coating

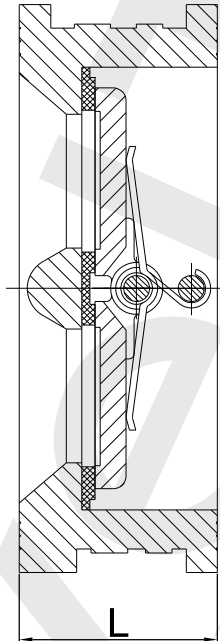
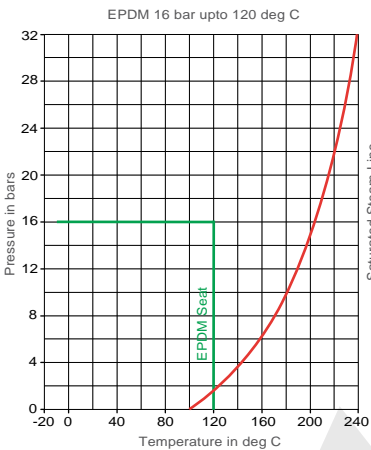
Internal and External coated with wet Epoxy Paint RAL 5002 (Blue)
Coating Thickness (DFT) = 200 Microns (min)

*On Request (Forward Delivery)

Higher Sizes / PN 25 rated available

*Subject to minimum order quantity

Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	Ductile Iron
2	Disc	Stainless Steel / Ductile Iron
3	Stem	Stainless Steel
4	Seat	EPDM
5	Spring	Stainless Steel
6	Washer	PTFE

Dimensions & Weights

DN	mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
L (DIN3202)		43	43	46	64	64	70	76	89	114	114	127	140	152	152	178
L (API594)		-	54	60	67	67	83	95	127	140	181	184	191	203	213	222

Five-duty Check Valves O.S & Y TYPE

10 Kgf/cm , 125, 150Lb
 16 Kgf/cm , 250Lb
 20 Kgf/cm , 300Lb

Five-duty Check Valve can protect a pump and pipe line from water hammer effect, and carries out five functions.

Also this valve gives you more efficiency installed with angle type at inline pump - working

Features

Five-duty check valve is installed at the pump outlet and used as a safeguard for backward flow. Multiple functions are added to basic check valve and it carries out 5 functions perfectly. (Hammerless check valve, O.S & Y stop valve, balancing valve, By- pass Function and multi-directional intet connection.)

The main body can be separated so that it can be freely changed to angle type or starting Type. (Angle Type is suitable for line pump piping)

Built-in by-pass valve makes it easy to drain WATER out of the protection from freezing and to supply guiding water to prevent entarence vaccume state.

To check the open/close status of the valve, this valve is made of outer screw type (O.S&Y type), and usable for flow balancing adjustment. (Fire proof tamperswitch is optional)

Stainless Steel Body (SI-60610) cab be supplid in size of 32A-100A for drinking water pipeline

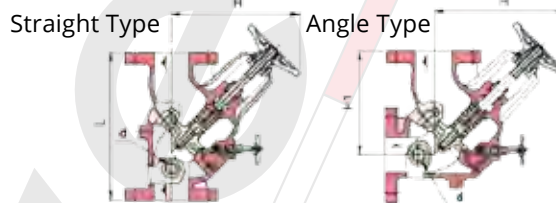
Straight Type



Angle Type



Cross-Sectional View



Material Specification

Model No	VIT-60410	VIT-60416	VIT-60520
Service Fuild	Water, Oil		
Max. inlet Pressure	10kg F	16kg F	20kg F
Max. Temperature	Max. 120		
Water Pressure Test	Max. 20Kgf / cm	Max. 30Kgf/cm	Max. 40Kgf / cm
End Connection	JIS 10K, PN10 ANSI 125' 150 Lbs Flange	JIS16K, PN16 ANSI 250 LbsFlange	JIS20K ANSI 300 Lbs Flange
Min, Workable Pressure Difference	0.04-0.07kgf / cm		
BODY	CAST IRON	DUCTILE IRON	Ductil Iron or Cast steel
SPRING	STAINLESS STEEL # 304		
Materials DISC	BRASS and DUCTILE IRON, EPDM		
STEM	BRASS STAINLESS STEEL # 304		
SEAT	EPDM or BRONZE		
Tamper Switch	Magenetic Lead Relay Switch {DC24V}		

Dimensions & Weights

Model No	VIT - 60410, 60416, 60520 [Straight]				VIT - 60410, 60416, 60520 [Angle]			
	L		H	d	H	H1		d
	60410,16	60520				60410,16	60520	
40A (1 1/2")	233	237	218	Rc 3/8"	218	161	163	Rc 3/8"
50A (2")	238	242	218	Rc 3/8"	218	161	163	Rc 3/8"
65A(1 1/2")	280	280	244	Rc 1/2"	244	191	191	Rc 1/2"
80A (2")	295	299	268	Rc 1/2"	268	205	207	Rc 1/2"
100A (4")	337	340	290	Rc 1/2"	290	232	234	Rc 1/2"
125A (5")	369	377	307	Rc 1/2"	307	263	267	Rc 1/2"
150A (6")	439	447	376	Rc 1/2"	376	299	303	Rc 1/2"
200A (8")	514	524	438	Rc 1/2"	438	350	356	Rc 1/2"
250A (10")	632	642	547	Rc 1/2"	547	436	441	Rc 1/2"
300A (10")	697	707	593	Rc 1/2"	593	480	485	Rc 1/2"
350A (14")	757	771	703	Rc 1/2"	703	542	549	Rc 1/2"
400A (16")	835	835	738	Rc 1/2"	738	616	629	Rc 1/2"
450A (18")	867	867	841	Rc 1/2"	841	656	672	Rc 1/2"
500A (20")	1026	1060	873	Rc 1/2"	872	711	728	Rc 1/2"

valveIT Y Type Strainer

Features

- DN65 - DN300 : Ductile Iron Material
- PN 16
- Bolted Cover
- SS Screen
- 1.5 mm / 2.5 mm Screen Perforations (DN65 - DN300)
- Flanged ends to DIN 2633 (EN 1092)
- BS 4504 PN16 (EN 1092)
- Drilling on the cover, with drain plug connection
- Face to face EN558-1(Series - 1), Tested to EN12266 - 1

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar

Pressure / Temperature Rating

13 bar at 220 deg C
16 bar from - 10 to 120 deg C

Coating

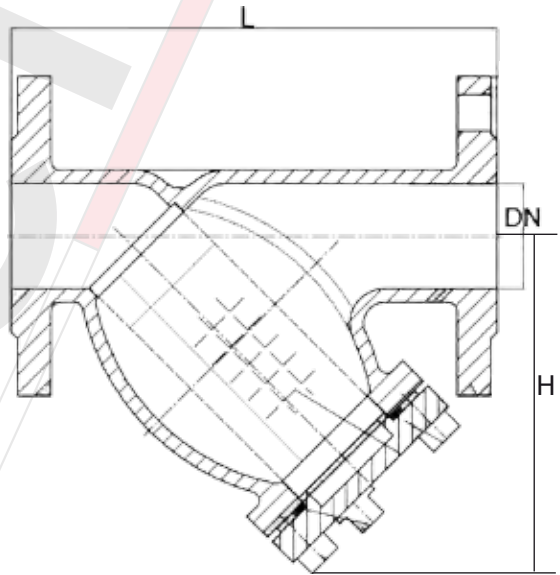
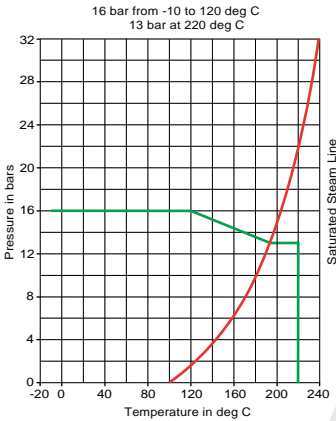
Internal and External coated with wet Epoxy paint RAL 5002 (Blue)
Coating Thickness (DFT) = 200 Microns (min)

*On Request (Forward Delivery)

Strainers can be supplied with screen of other mesh sizes.
Strainers can be supplied fitted with drain cock of brass
Higher Sizes

*Subject to minimum order quantity

Pressure Vs Temperature Graph



Material Specification

No	Component	Material	Spec
1	Body	Ductile Iron	EN1563 EN - GJS-400
2	Screen	Stainless Steel	EN10088 X5CrNi1810
3	Cover	Ductile Iron	EN1563 EN - GJS - 400
4	Gasket	Asbestos Free	-
5	3/8,1/2 Drain Plug	SS	-
6	Bolt	Carbon Steel Galvanized	EN10083-2 C45

Dimensions & Weights

Nominal Size DN (mm)	Dimensions		Weight Kg	Kv Value m ³ / h
	H (mm)	L (mm)		
65	137	290	13	96
80	152	310	17.2	149
100	205	350	24.6	223
125	244	400	33.8	347
150	269	480	47.8	480
200	341	600	74.6	853
250	455	730	138.6	1104
300	476	850	220	1450

valveIT Y Type Strainer

Features

- DN65 - DN600 : Ductile Iron Material
- PN 16
- Bolted Cover
- SS Screen
- 1.5 mm / 2.5 mm / 3.5 mm Screen Perforations (DN65 - DN600)
- Flanged ends to DIN 2633 (EN 1092)
- BS 4504 PN16 (EN 1092)
- Drilling on the cover, with drain plug connection
- Face to face EN558 - 1(Series - 1), Tested to EN12266 - 1

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar

Pressure / Temperature Rating

13 bar at 220 deg C
16 bar from - 10 to 120 deg C

Coating

Internal and External coated with wet Epoxy paint RAL 5002 (Blue)
Coating Thickness (DFT) = 200 Microns (min)

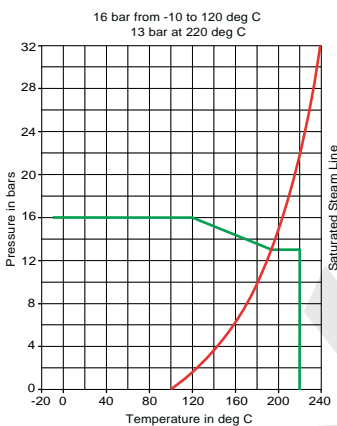
***On Request (Forward Delivery)**

Strainers can be supplied with screen of other mesh sizes.
Strainers can be supplied fitted with drain cock of brass
Higher Sizes
*Subject to minimum order quantity

Standard Screen

Size (mm)	Hole Dia. (mm)	Mesh
50~150	1.5	104
200~350	2.5	26
400	3.5	22

Pressure Vs Temperature Graph

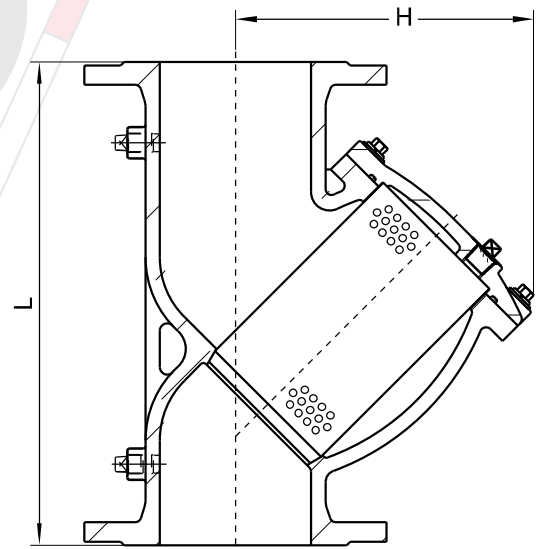


Material Specification

No	Component	Material	Spec
1	Body	Ductile Iron	EN1563 EN - GJS - 400
2	Screen	Stainless Steel	EN10088 X5CrNi1810
3	Cover	Ductile Iron	EN1563 EN - GJS - 400
4	Gasket	Asbestos Free	-
5	Drain Plug	SS	-
6	Bolt	Carbon Steel Galvanized	EN10083 - 2 C45

Dimensions

DN	Dimensions														
	inch	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
L	230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450	
H	124	137	152	205	244	269	341	455	476	725	820	840	915	1100	



Basket Type Strainer

Features

- DN65 - DN600 : Ductile Iron Material
- PN 16 / PN 25
- Bolted Cover
- SS Screen
- 1.5 mm / 2.5 mm / 3.5 mm Screen Perforations (DN65 - DN600)
- Flanged ends to DIN 2633 (EN 1092)
- BS 4504 PN16 (EN 1092)
- Drilling on the cover, with drain plug connection

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar

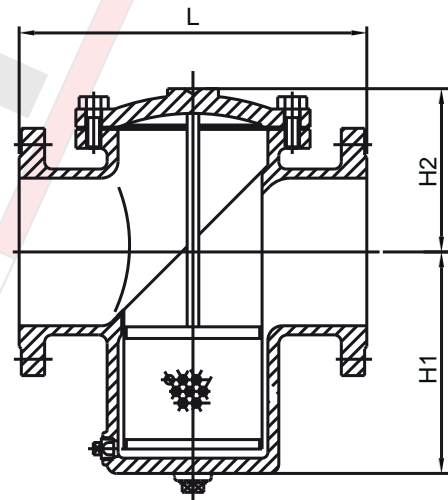
Pressure / Temperature Rating

13 bar at 220 deg C

16 bar from - 10 to 120 deg C

Working Pressure 16 / 2 5 bar

Size (mm)	Hole Dia. (mm)	Free Flow Area (inch ²)
50-80	1.5	104
100-600	3.0	25



Material Specification

No	Component	Material	Optional
1	Body	Ductile Iron	A536 65-45-12
2	Cover	Ductile Iron	A536 65-45-12
3	Screen	Stainless Steel 304	AISI 304
4	Blow-off plug	Ductile Iron	A536 65-45-12
5	Gasket	Graphite / Teflon	Commercial

Dimensions & Weights

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
L		207	210	251	292	334	378	475	511	680	769	842	842	842	1054
H1		135	155	190	205	219	235	295	335	405	585	590	590	600	1175
H2		90	95	105	117	146	165	215	325	355	345	390	420	510	515

valveIT Butterfly Valve, Wafer Type

Features

- DN50 - DN150 : Cast Iron Material, Lever Operated
- DN200 - DN600 : Ductile Iron Material, Gear Operated
- PN 16, Semi Lugged
- EPDM Lined, Ductile Iron + Nickel Plated Disc
- Pinless Design upto DN 300
- Replaceable Liner
- Confirms to BS 5155 (EN593)
- Suitable for installing between PN16 flanges

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

- Body : 24 bar
- Seat : 17.6 bar

Pressure / Temperature Rating

- 16 bar at 110 deg C
- With EPDM liner the maximum allowable short term temperature is 120 deg C

Coating

Internal and External coated with fusion bonded epoxy coating RAL 5002 (blue)
Coating Thickness (DFT) - 200 Microns (min)

Type of Actuator - Options

Lever, Gear box, Electric, Pneumatic

Face to Face / Design according to

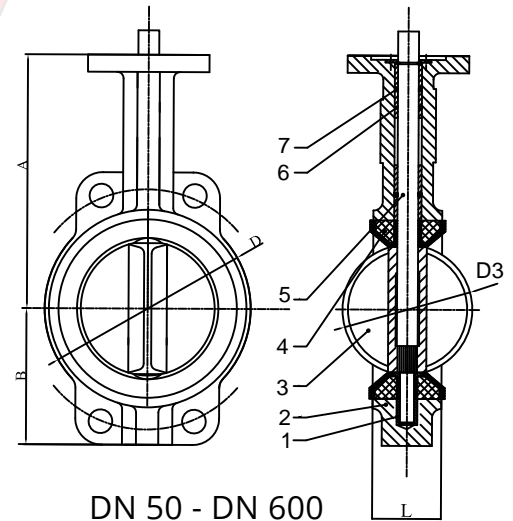
DIN 3202 (EN 558), ISO 5752 Series 20

Connection

ISO 5211 / DIN 2632 (EN 1092) or BS 4504 PN 10 / 16 (EN 1092)

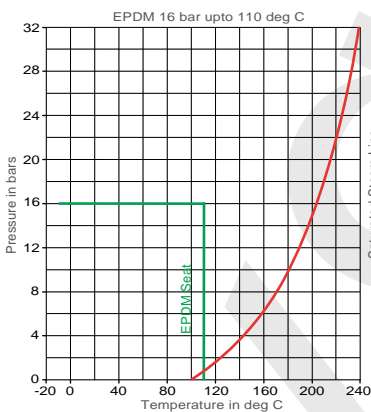
***On Request (Forward Delivery)**

- Available with Stainless Steel or Aluminium Bronze Disc (VIT-16-BCW-AB)
- Larger sizes and PN25 rating available
- Available with NBR Seat
- Available in 'U' Type design
- Available with ANSI CL 150 Drilling
- *Subject to minimum order quantity



DN 50 - DN 600

Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Bushing	PTFE	PTFE
2	Body (DN40-DN150)	Cast Iron GG 25	1691GG25
3	Body (DN200-DN300)	Ductile Iron GGG40	1693GGG40
4	Disc	Ductile Iron GGG40+NP	-
5	Seat	EPDM	-
6	Shaft	Stainless Steel	X10Cr13
7	Bushing	PTFE	PTFE
8	O-Ring	NBR	-

Dimensions & Weights

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
B		71.4	76.2	98.6	118.7	129.4	142	176	208.8	248.5	302	354	385	438	464
A		149	150.4	156.5	168	186.5	205.7	230.6	269.9	327.8	368	400	422	480	562
L		42	44.5	44.5	51	54.5	54.5	59.6	67	75.5	75.5	102	114	130	151

valveIT Ductile Iron Butterfly Valve, Wafer Type

Features

- DN50 - DN600 : Ductile Iron Material
- PN 16, Semi Lugged
- EPDM Lined Stainless Steel Disc (VIT - 25 - BDWS) / Ductile Iron Disc (VIT - 25 - BDW)
- Pinless Design upto DN 300
- Replaceable Liner
- Confirms to BS 5155 (EN593)
- Suitable for installing between PN 16 flanges
- UPTO DN150-Lever Operated
- DN 200 & Above - Gear Operated

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar

Seat : 17.6 bar

Pressure / Temperature Rating

16 bar at 110 deg C

With EPDM liner the maximum allowable short term temperature is 120 deg C

Coating

Internal and External coated with fusion bonded epoxy coating RAL 5002 (blue)

Coating Thickness (DFT) - 200 Microns (min)

Type of Actuator - Options

Lever, Gear box, Electric

Face to Face / Design according to

DIN 3202 (EN 558), ISO 5752 Series 20

Connection

ISO 5211 / DIN 2634 (EN 1092) or BS 4504 PN 25 (EN 1092)

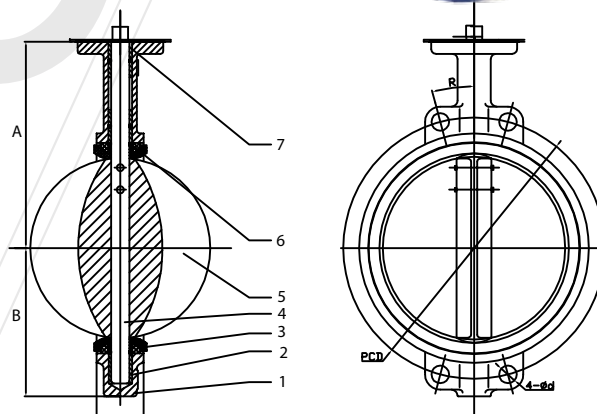
*On Request (Forward Delivery)

Available with Stainless Steel or Ductile Iron (Nickel plated) Disc

Larger sizes available / PN 25 rated available

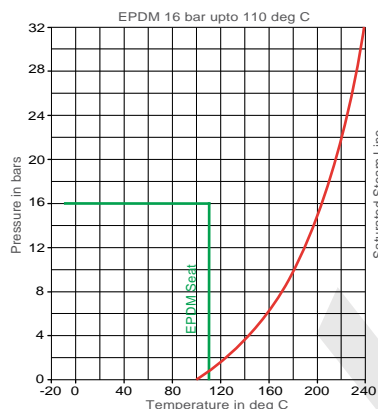
Available in Lug Type

*Subject to minimum order quantity



DN 50 - DN 600

Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	Ductile Iron GGG40
2	Bushing	PTFE / Bronze
3	Seat	EPDM
4	Shaft	Stainless Steel
5	Disc	Stainless Steel / Ductile Iron Disc
6	Bushing	PTFE / Bronze
7	O-Ring	NBR

Dimensions & Weights

DN	mm inch	50	65	80	100	125	150	200	250	300	350	400	450	500	600
B		71.4	76.2	98.6	118.7	129.4	142	176	208.8	248.5	302	354	385	438	464
A		149	150.4	156.5	168	186.5	205.7	230.6	269.9	327.8	368	400	422	480	562
L		42	44.5	44.5	51	54.5	54.5	59.6	67	75.5	75.5	102	114	130	151

valveIT Butterfly Valve, LugType

Features

DN50 - DN150 : Cast Iron Material, Lever Operated
 DN200 - DN600 : Ductile Iron Material, Gear Operated
 PN 16, Fully Lugged
 EPDM Lined, Ductile Iron + Nickel Plated Disc
 Pinless Design upto DN 300
 Replaceable Liner
 Confirms to BS 5155 (EN593)
 Suitable for installing between PN16 flanges

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
 Seat : 17.6 bar

Pressure / Temperature Rating

16 bar at 110 deg C
 With EPDM liner the maximum allowable short term temperature is 120 deg C

Coating

Internal and External coated with fusion bonded epoxy coating RAL 5002 (blue)
 Coating Thickness (DFT) - 200 Microns (min)

Type of Actuator - Options

Lever, Gear box, Electric, Pneumatic

Face to Face / Design according to

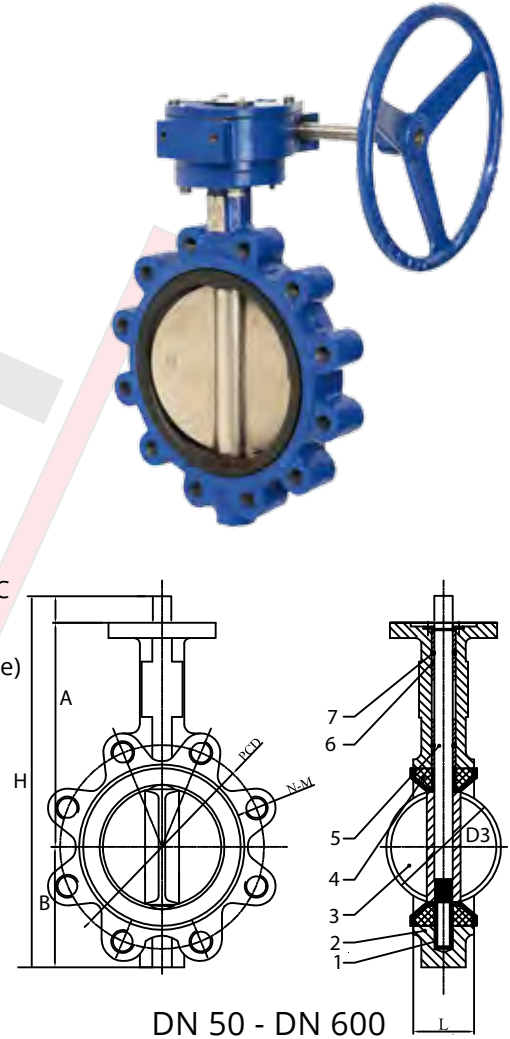
DIN 3202 (EN 558), ISO 5752 Series 20

Connection

ISO 5211 / DIN 2632 (EN 1092) or BS 4504 PN 10 / 16 (EN 1092)

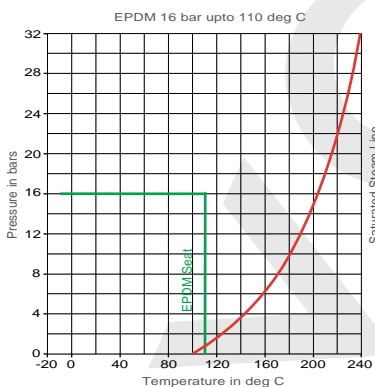
*On Request (Forward Delivery)

Available with Stainless Steel or Aluminium Bronze Disc (VIT - 16 - BCL - AB)
 PN25 rating available
 Available with NBR Seat
 Available in Wafer Type and 'U' Type design
 Available with ANSI CL 150 Drilling
 *Subject to minimum order quantity



DN 50 - DN 600

Pressure Vs Temperature Graph



Material Specification

No	Component	Material	DIN
1	Bushing	PTFE	PTFE
2	Body (DN50-DN150)	Cast Iron GG 25	1691GG25
3	Body (DN200-DN300)	Ductile Iron GGG40	1693GGG40
4	Disc	Ductile Iron GGG40 + NP	G-CuAl11Fe4
5	Seat	EPDM	-
6	Shaft	Stainless Steel	X10Cr13
7	Bushing	PTFE	PTFE
8	O-Ring	NBR	-

Dimensions & Weights

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
B		71.4	76.2	98.6	118.7	129.4	142	176	208.8	248.5	302	354	385	438	464
A		149	150.4	156.5	168	186.5	205.7	230.6	269.9	327.8	368	400	422	480	562
L		42	44.5	44.5	51	54.5	54.5	59.6	67	75.5	75.5	102	114	130	151

valveIT Ductile Iron Butterfly Valve, Lug Type

Features

- DN50 - DN600 : Ductile Iron Material
- PN 16, Fully Lugged
- EPDM Lined Stainless Steel Disc (VIT - 25 - BDLS) / Ductile Iron Disc (VIT - 25 - BDL)
- Pinless Design upto DN 300
- Replaceable Liner
- Confirms to BS 5155 (EN593)
- Suitable for installing between PN16 flanges
- UPTO DN150 - Lever Operated
- DN 200 & Above - Gear Operated

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
Seat : 17.6 bar

Pressure / Temperature Rating

16 bar at 110 deg C
With EPDM liner the maximum allowable short term temperature is 120 deg C

Coating

Internal and External coated with fusion bonded epoxy coating RAL 5002 (blue)
Coating Thickness (DFT) - 200 Microns (min)

Type of Actuator - Options

Lever, Gear box, Electric

Face to Face / Design according to

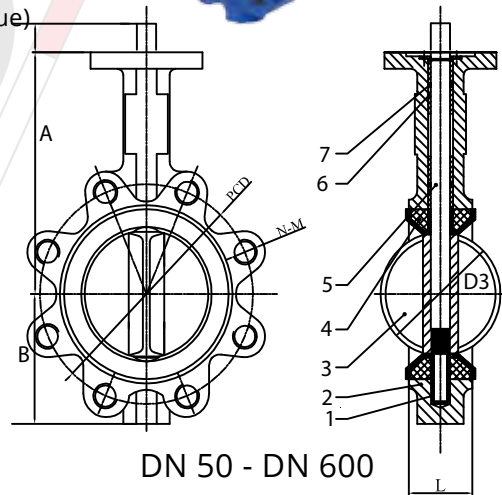
DIN 3202 (EN 558), ISO 5752 Series 20

Connection

ISO 5211 / DIN 2634 (EN 1092) or BS 4504 PN 25 (EN 1092)

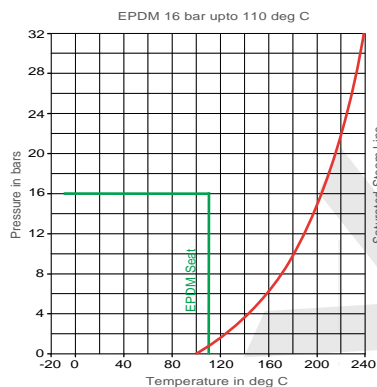
*On Request (Forward Delivery)

Available with Stainless Steel or Ductile Iron (Nickel plated) Disc
Larger sizes available / PN 25 rated available
Available in Wafer Type
*Subject to minimum order quantity



DN 50 - DN 600

Pressure Vs Temperature Graph



Material Specification

No	Component	Material
1	Body	Ductile Iron GGG40
2	Bushing	PTFE / Bronze
3	Seat	EPDM
4	Shaft	Stainless Steel
5	Disc	Stainless Steel / Ductile Iron Disc
6	Bushing	PTFE / Bronze
7	O-Ring	NBR

Dimensions & Weights

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
B		71.4	76.2	98.6	118.7	129.4	142	176	208.8	248.5	302	354	385	438	464
A		149	150.4	156.5	168	186.5	205.7	230.6	269.9	327.8	368	400	422	480	562
L		42	44.5	44.5	51	54.5	54.5	59.6	67	75.5	75.5	102	114	130	151

U - Type Butterfly Valves Double Flanged

Features

Ductile Iron Material
 PN 16
 EPDM Lined Stainless Steel / Ductile Iron Disc
 Gear Operated

Valve Standard

Comply with ISO 5752 / BS 5155 / BS EN 593 / MSS SP-67
 Face - to - Face as per ISO 5752 ser 20

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

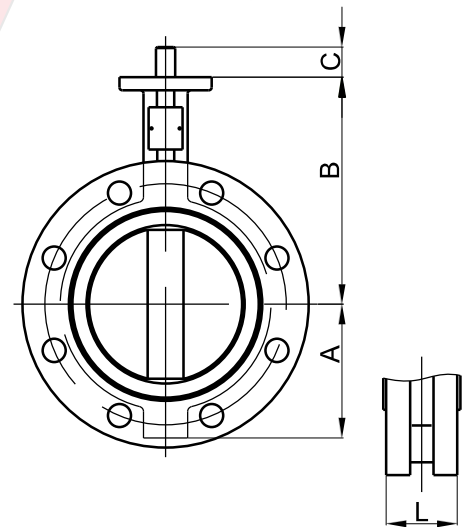
Body : 24 bar
 Seat : 17.6 bar

Pressure / Temperature Rating

16 bar at 120 deg C
 With EPDM liner the maximum allowable short term temperature is 120 deg C
 -10 to 80 deg C NBR Seat

Coating

Internal and External coated with fusion bonded epoxy coating RAL 5002 (blue)
 Coating Thickness (DFT) - 200 Microns (min)



Material Specification

No	Component	Material	Optional
1	Body	Ductile Iron	EN - JS 1050
2	Disc	Ductile Iron / Stainless Steel 304 / 316	EN-JS 1050 / BS970 304 C 15, BS970 304 C 16
3	Shaft	Stainless Steel 410/ 431	BS970 304 C 21, BS970 304 C 29
4	Seat Ring	EPDM / NBR	
5	O - Ring	EPDM / NBR	
6	Bushing	Bronze	EN 1982 CC491K

Dimensions & Weights

DN	mm	150	200	225	250	300	350	375	400	450	500	550	600
	inch	6	8	9	10	12	14	15	16	18	20	22	24
A		133	175	190	201	242	267	320	316	344	380	432	468
B		226	260	275	292	337	368	375	400	422	480	533	562
C		30	34	34	34	34	40	52	52	52	64	70	70
L		55	60	67	67	76	76	102	102	114	127	151	151

valveIT Double eccentric double flanged butterfly valve

Features

PN 10 / PN 16/ PN 25/ PN 40

Body: GGG 40-50

Size: DN 150 - DN 3000

Body Test Pressure: PNx1.5 bars

Disc Test Pressure: PNx1.5 bars

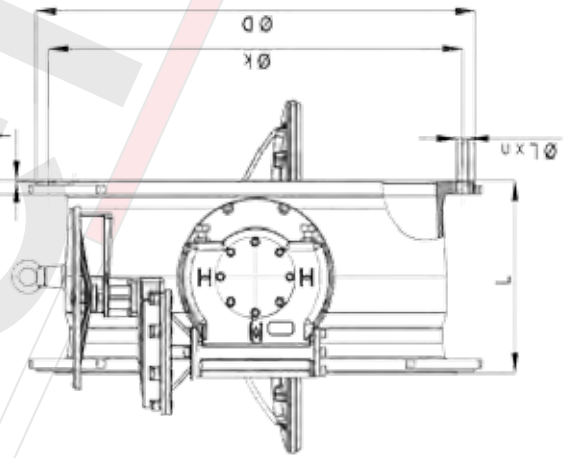
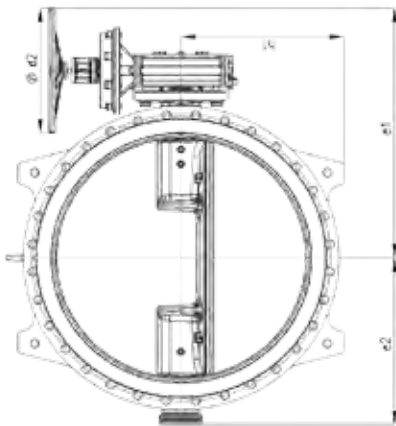
Top Flange: ISO 5211

Face to Face: EN 558-1/14

Test Standard: EN 12266-1

Flange Standard: EN 1092-2

Operation: Gear Box with Hand Wheel- IP 67



Material Specification

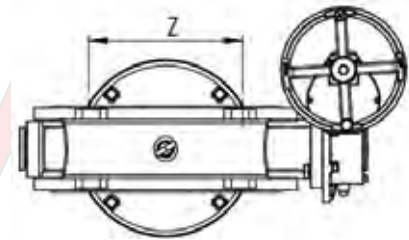
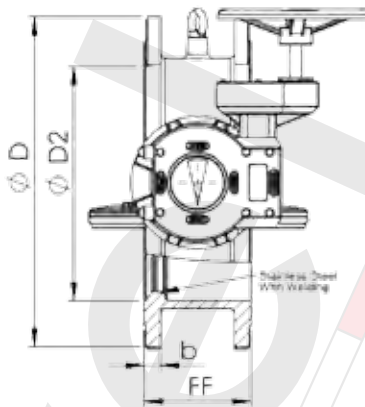
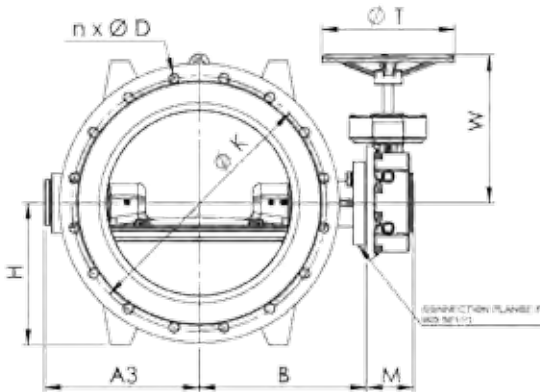
No	Component	Material
1	Body	GGG 40-50
2	Body Seat	Stainless Steel with Welding
3	Disc	GGG 40-50
4	Disc Seat	EPDM
5	Retaining Ring	St-37, AISI 304, AISI 316
6	Internal Bolt	A2 Stainless steel
7	Front - Back Bushing	Bronze
8	O-ring	EPDM
9	External Bolt	8.8 Electro Galvanized
10	Front Shaft	1.4021, 1.4057, 1.4462
11	Pin	1.4021, 1.4057
12	Back Shaft	1.4021, 1.4057, 1.4462
13	Front Cover	St 37, GGG 40
14	Setscrew	8.8
15	Bolt	8.8
16	Back Cover	St 37, GGG 40
17	Eye Bolt	A 105
18	Key	C 45 K
19	Bearing	Bronze
20	Segment	A2
21	Washer	A2

PN 10												PN 16											
DN	PN	ØD	L _{S14}	e1	e2	d2	h1	f	C	ØkxnxØL	Weight	DN	PN	ØD	L _{S14}	e1	e2	d2	h1	f	C	ØkxnxØL	Weight
mm	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm - nx mm	kg	mm	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm-nx mm	kg
150	10	285	210	345	142	260	160	3	19	Ø240x8xØ23	37.0	150	16	285	210	345	142	260	160	3	19	Ø240x8xØ23	37.0
200	10	340	230	388	175	260	190	3	20	Ø295x8xØ23	60.0	200	16	340	230	388	175	260	190	3	20	Ø295x12xØ23	60.0
250	10	395	250	406	201	260	220	3	22	Ø350x12xØ23	74.5	250	16	405	250	406	201	260	220	3	22	Ø355x12xØ28	74.5
300	10	445	270	448	235	260	250	4	24.5	Ø400x12xØ23	90.0	300	16	460	270	448	235	260	250	4	24.5	Ø410x12xØ28	90.0
350	10	505	290	567	260	400	280	4	24.5	Ø460x16xØ23	155.0	350	16	520	290	567	260	400	280	4	26.5	Ø470x16xØ28	155.0
400	10	565	310	600	302	400	310	4	24.5	Ø515x16xØ23	165.0	400	16	580	310	600	302	400	310	4	58	Ø525x16xØ31	184.0
450	10	615	330	610	330	400	330	4	25.5	Ø565x20xØ28	261.0	450	16	640	330	610	330	400	330	4	30	Ø585x20xØ31	296.0
500	10	670	350	665	372	400	360	4	26.5	Ø620x20xØ28	237.0	500	16	715	350	665	372	400	360	4	31.5	Ø650x20xØ34	280.0
600	10	780	390	735	425	400	440	5	30	Ø725x20xØ31	345.0	600	16	840	390	735	425	400	440	5	36	Ø770x20xØ37	383.0
700	10	895	430	872	458	600	465	5	32.5	Ø840x24xØ31	546.0	700	16	910	430	872	458	600	465	5	39.5	Ø840x24xØ37	560.0
800	10	1015	470	954	520	600	540	5	35	Ø950x24xØ34	690.0	800	16	1025	470	954	520	600	540	5	43	Ø950x24xØ41	700.0
900	10	1115	510	1004	600	600	570	5	37.5	Ø1050x28xØ34	1040.0	900	16	1125	510	1004	600	600	570	5	46.5	Ø1050x28xØ41	1056.0
1000	10	1230	550	1024	625	600	676	5	40	Ø1160x28xØ37	1522.0	1000	16	1255	550	1024	625	600	676	5	50	Ø1170x28xØ44	1550.0
1100	10	1340	550	1157	765	600	680	5	42.5	Ø1270x32xØ37	1794.0	1100	16	1355	550	1157	765	600	680	5	53.5	Ø1270x32xØ44	1920.0
1200	10	1455	630	1250	800	600	735	5	45	Ø1380x32xØ41	2171.0	1200	16	1485	630	1250	800	600	735	5	57	Ø1390x32xØ50	2255.0
1300	10	1585	630	1332	881	600	810	5	59	Ø1490x32xØ42	2550.0	1300	16	1585	630	1332	881	600	810	5	59	Ø1490x32xØ50	2550.0
1400	10	1675	710	1362	910	600	878	5	46	Ø1590x36xØ44	3222.0	1400	16	1685	710	1362	910	600	878	5	60	Ø1590x36xØ50	3290.0
1500	10	1785	710	1364	937	600	900	5	47	Ø1700x36xØ44	3450.0	1500	16	1820	710	1485	1060	600	940	5	62.5	Ø1710x36xØ57	3530.0
1600	10	1915	790	1510	1075	600	976	5	49	Ø1820x40xØ50	3740.0	1600	16	1930	790	1510	1075	600	976	5	65	Ø1820x40xØ57	4360.0
1700	10	2020	790	1510	1075	600	1030	5	52	Ø1920x40xØ50	4275.0	1700	16	-	790	-	-	600	-	5	-	-	-
1800	10	2115	870	1370	1260	600	1058	5	52	Ø2020x44xØ50	4821.0	1800	16	2130	870	1370	1260	600	1058	5	70	Ø2020x44xØ57	4942.5
2000	10	2325	950	1780	1385	600	1200	6	55	Ø2230x48xØ50	7500.0	2000	16	2345	950	1835	1414	600	1200	5	75	Ø2230x48xØ62	7850.0
2200	10	2555	950	1920	1560	600	1310	6	58	Ø2440x52xØ57	9925.0	2200	16	2555	950	1920	1560	600	1310	5	80	Ø2440x52xØ62	12000.0
2400	10	2760	950	1920	1481	-	1379	6	65	Ø2650x56xØ56	13300.0	2400	16	2770	950	2750	1875	-	1400	6	80	Ø2660x56xØ62	15500.0
2500	10	2860	950	2018	1575	-	1444	6	65	Ø2750x56xØ56	14000.0	2500	16	2880	950	2780	1575	-	1460	6	80	Ø2760x56xØ62	18000.0
2600	10	2960	950	2150	1630	-	1550	6	70	Ø2850x60xØ56	16000.0	2600	16	3000	950	2845	1630	-	1536	6	90	Ø2890x60xØ70	19500.0
2800	10	3180	950	2250	1808	-	1600	6	70	Ø3070x64xØ56	20000.0	2800	16	3240	950	2870	1848	-	1580	6	95	Ø3170x64xØ70	23500.0
3000	10	3405	950	-	1855	-	1810	8	75	Ø3290x68xØ62	25000.0	3000	16	-	950	-	1855	-	-	8	-	-	29000.0

valveIT Double eccentric double flanged butterfly valve- Series 13

Features

- PN 10 / PN 16
- Body: GGG 40-50
- Size: DN 150 - DN 1200
- Body Test Pressure: PNx1.5 bars
- Seat Test Pressure: PNx1.1 bars
- Top Flange: ISO 5211/1
- Face to Face: EN 558-1/13
- Test Standard: EN 12266-1
- Flange Standard: EN 1092-2
- Operation: Gear Box with Hand Wheel- IP 67



Material Specification

No	Component	Material
1	Body	GGG 40-50
2	Body Seat	Stainless Steel with Welding
3	Disc	GGG 40-50
4	Disc Seat	EPDM
5	Retaining Ring	St-37, AISI 304, AISI 316
6	Bolt	A2
7	Front - Back Bushing	Bronze
8	O-ring	NBR, EPDM
9	Front Shaft	1.4021, 1.4057, 1.4462
10	Pin	1.4021, 1.4057
11	Back Shaft	1.4021, 1.4057, 1.4462
12	Adjustment Bushing	Delrin, Steel
13	Front Cover	St 37, GGG 40
14	Setscrew	8.8
15	Bolt	8.8
16	Back Cover	St 37, GGG 40
17	Eye Bolt	A 105
18	Key	C 45 K

PN 10											PN 16											BODY						ISO 5211/1		FREE SHAFT Weight (kg)	GEAR BOX					
DN	ti	ØD	ØD2	Ød	Øk	ti	ti	ØD	ØD2	Ød	Øk	ti	ti	ØD	ØD2	Ød	Øk	ti	ti	ØD	ØD2	Ød	Øk	H	FF	Ø T	W	Z	F 10		F 16	PN 10	PN 16	Type	Weight (kg)	Type
150	19	285	175	22	340	8	19	285	175	22	340	8	157	157	165	165	75	75	160	140	230	238	-	-	-	-	-	F 10	F 10	-	-	AST-30	8.220	AST-30	8.220	
200	20	340	205	22	295	8	20	340	205	22	295	12	183	183	213	213	75	75	190	152	230	238	95.7	-	-	-	-	F 10	F 10	-	-	-	-	-	-	
250	22	395	250	22	350	12	22	405	255	28	355	12	223	223	220	220	75	75	220	165	230	238	174.2	-	-	-	-	F 10	F 10	-	-	-	-	-	-	
300	24.5	455	300	22	400	12	24.5	460	300	26	410	12	245	245	273	273	75	75	250	178	230	238	215.9	-	-	-	-	F 10	F 10	-	-	-	-	-	-	
350	24.5	505	350	22	460	16	26.5	520	300	26	470	16	279	279	285	285	102	102	280	180	335	315	267	-	-	-	-	F 14	F 14	142.0	142.0	AST-40	12.240	AST-60	17.900	
400	24.5	565	400	26	515	16	28	580	400	30	525	16	307	316	325	325	102	102	310	216	400	315	318.6	-	-	-	-	F 14	F 14	145.0	145.0	AST-60	17.900	AST-80	32.660	
450	25.5	615	450	26	565	20	30	640	450	30	585	20	336	355	343	358	102	102	330	222	600	315	367	-	-	-	-	F 16	F 16	184.0	184.0	AST-80	32.660	AST-80	32.660	
500	26.5	670	500	26	620	20	31.5	715	500	33	650	20	361	388	375	397	102	102	360	229	600	315	410	-	-	-	-	F 16	F 16	216.0	216.0	-	-	-	-	
600	30	760	600	30	725	20	36	840	600	36	770	20	420	451	435	465	102	102	440	267	600	315	516.2	-	-	-	-	F 16	F 25	-	-	AB1950N/SP4	58,000	AB1950N/SP4	58,000	
700	32.5	885	700	30	840	24	39.5	910	700	36	840	24	473	494	488	503	135	135	465	292	600	414	586	-	-	-	-	F 25	F 30	425.0	425.0	AB6800N/SP4	100,000	AB6800N/SP4	100,000	
800	35	1015	800	33	950	24	43	1025	800	39	950	24	554	566	550	580	135	135	540	318	600	414	682.8	-	-	-	-	F 30	F 30	-	-	AB6800N/SP4	100,000	AB6800N/SP6	111,000	
900	37.5	1115	900	33	1050	28	46.5	1125	900	39	1050	28	600	600	620	640	225	225	570	330	600	525	780.5	-	-	-	-	F 30	F 35	1050.0	1050.0	A1M600N/SP6	111,000	A250N/SP9	225,000	
1000	40	1230	1000	36	1160	28	50	1235	1000	42	1170	28	683	688	682	682	225	225	676	410	600	525	871.7	-	-	-	-	F 35	F 35	1125.0	1125.0	A250N/SP9	225,000	IWB2	222,000	
1200	45	1455	1200	39	1380	32	57	1485	1200	48	1380	32	795	845	800	800	225	225	735	470	600	525	1023.2	-	-	-	-	F 35	F 35	1846.0	1846.0	IWB2	222,000	IWBRA	262,000	

valveIT Pressure Independent Control valve

Features

The valveIT VERDE is designed as a 3 - in - 1 solution combining a full stroke modulation control valve, an automatic balancing valve and a differential pressure control valve. This new "valveIT VERDE" includes an innovative self - adjustment feature, which enables each valve continuously to self - balance. This ensures delivery of precisely the flow rate required by each terminal unit, independent of pressure fluctuations in the hydronic system. Each "valveIT VERDE" can also be adjusted to set an accurate maximum flow rate limit to each circuit without stroke limitation.

The valveIT Pressure Independent Control Valve can be used in several different applications within heating or cooling such as fan-coil units, air-handler units and other terminal units wherever dynamic balancing and fully accurate temperature control are required, the valveIT Pressure Independent Control Valve will be the ideal choice. It will be the easy solution to both designers, installers and end - users due to its user - friendly complete solution in one body and with one valveIT diaphragm.



100% Valve Authority

The valveIT PICV is a 100% authority pressure independent flow control valve which instantaneously self - balance at all points of operation, even when there is variance in pressure differential.

As long as the pressure differential across the valve is within the operating range, the Kv of the valve is variable, being continuously regulated to keep the control valve in constant authority. The valveIT diaphragm based removable adjustable flow element will in other words always use full stroke of the spindle offering the 100% authority for any of its 41 maximum flow settings.

Features and Benefits

- 3-in-1 combi valve, modulating control valve, dynamic flow limiter and differential pressure control valve in one body.
- Differential pressure independent.
- Full stroke modulation at any design flow.
- 100% authority for any of the diaphragm based removable adjustable flow element's flow setting.
- Automatic system balancing, the correct flow rate for each circuit is achieved automatically.
- Dynamic balancing, the correct flow rate is maintained as each valve continuously compensates for pressure fluctuations in the system.
- Field adjustable, flow rate can be changed on demand without removing the insert from the valve body.
- Elimination of branch or "partner" balancing valves which results in fewer total valves used in each project.
- Easily accessible insert for flow rate adjustment or maintenance.
- Accuracy: Greatest of either $\pm 10\%$ of controlled flow rate or $\pm 5\%$ of maximum flow rate.
- Up to 41 different flow curves in one and the same diaphragm based removable adjustable flow element.
- Choice of actuator, electrical actuators: 0(2)-10V modulating, 3 - point floating or 2 - position, or thermal actuators: 0- 10V modulating or ON / OFF.
- Pressure / temperature measurement plugs available for verifying operating differential pressure or checking ΔT across the coil.

Flow setting for valveIT VERDE.0, VERDE.1, VERDE.2

valve IT VERDE										
Insert:20mm,3/4"						Insert:40mm,1 1/2"				
16-200kPaD . 2.3 - 29psid			30 - 400 kPaD . 4.4 - 58psid			16 - 400 kPaD* . 2.3 - 58psid*				Setting
VERDE.0 (grey o - ring)			VERDE.1 (black o - ring)			VERDE.2 (black o - ring)				
l / sec	l / hr	GPM	l / sec	l / hr	GPM	l / sec	l / hr	GPM		
-	-	-	0.0178	64	0.282	0.24	865	3.81		1
0.0103	37	0.163	0.0393	142	0.624	0.282	1010	4.46		1.1
0.0233	84	0.37	0.058	209	0.92	0.322	1160	5.1		1.2
0.0322	116	0.51	0.0743	268	1.18	0.361	1300	5.72		1.3
0.0419	151	0.664	0.0887	319	1.41	0.399	1430	6.32		1.4
0.05	180	0.792	0.102	366	1.61	0.435	1570	6.9		1.5
0.0569	205	0.902	0.113	408	1.8	0.471	1700	7.47		1.6
0.065	234	1.03	0.124	446	1.96	0.506	1820	8.02		1.7
0.0719	259	1.14	0.134	482	2.12	0.54	1940	8.56		1.8
0.0781	281	1.24	0.143	516	2.27	0.573	2060	9.08		1.9
0.0839	302	1.33	0.152	549	2.42	0.605	2180	9.59		2
0.0889	320	1.41	0.161	580	2.56	0.636	2290	10.1		2.1
0.0942	339	1.49	0.17	611	2.69	0.667	2400	10.6		2.2
0.0981	353	1.55	0.178	641	2.82	0.696	2510	11		2.3
0.103	371	1.63	0.186	671	2.95	0.725	2610	11.5		2.4
0.106	381	1.68	0.194	700	3.08	0.753	2710	11.9		2.5
0.109	394	1.73	0.202	728	3.21	0.78	2810	12.4		2.6
0.113	406	1.79	0.21	756	3.33	0.807	2900	12.8		2.7
0.115	414	1.82	0.218	783	3.45	0.832	3000	13.2		2.8
0.119	428	1.88	0.225	810	3.56	0.858	3090	13.6		2.9
0.122	439	1.93	0.232	835	3.68	0.882	3180	14		3
0.125	449	1.98	0.239	860	3.79	0.906	3260	14.4		3.1
0.127	458	2.02	0.245	883	3.89	0.93	3350	14.7		3.2
0.13	468	2.06	0.252	906	3.99	0.953	3430	15.1		3.3
0.133	477	2.1	0.257	927	4.08	0.975	3510	15.5		3.4
0.135	486	2.14	0.263	946	4.17	0.997	3590	15.8		3.5
0.137	494	2.17	0.268	965	4.25	1.02	3670	16.1		3.6
0.14	503	2.21	0.273	982	4.32	1.04	3740	16.5		3.7
0.142	511	2.25	0.277	998	4.39	1.06	3820	16.8		3.8
0.144	518	2.28	0.281	1010	4.46	1.08	3890	17.1		3.9
0.146	526	2.31	0.285	1020	4.51	1.1	3960	17.4		4
0.148	532	2.34	0.288	1040	4.57	1.12	4030	17.7		4.1
0.149	538	2.37	0.291	1050	4.61	1.14	4100	18.1		4.2
0.151	544	2.39	0.294	1060	4.66	1.16	4170	18.4		4.3
0.153	549	2.42	0.296	1070	4.7	1.18	4240	18.7		4.4
0154	553	2.43	0.299	1080	4.73	1.2	4300	19		4.5
0.155	559	2.46	0.301	1080	4.77	1.21	4370	19.2		4.6
0.156	563	2.48	0.303	1090	4.8	1.23	4440	19.5		4.7
0.158	567	2.5	0.305	1100	4.83	1.25	4500	19.8		4.8
0.159	571	2.51	0.307	1100	4.86	1.27	4570	20.1		4.9
0.16	575	2.53	0.308	1110	4.89	1.29	4630	20.4		5

Principle of Operation

On closer examination of the inner workings of the valveIT PICV, the function is best described as 2 valves in 1. The second valve (V2) regulates the pressure differential across the first valve (V1) by means of a rolling diaphragm element - acted by a spring. The first valve is a calibrated variable orifice device adjusted by the actuator (similar to a standard modulating control valve). The diaphragm reacts to the system and regulates the pressure differential across the actuated control valve orifice to maintain its flow rate. When pre-setting the maximum flow rate, the inlet orifice is changed in size sideways which does not interfere with the length of the stroke. When modulating, the orifice areas are affected by the actuator using the full stroke which results in the fact that the orifice area is changed in size in a vertical movement.

Pre- setting valveIT VERDE

The valveIT VERDE can be pre- set to limit the working range of the valve which limits the maximum flow rate through the valve. Consequently, hydronic balance is achieved automatically without the use of additional balancing valves.

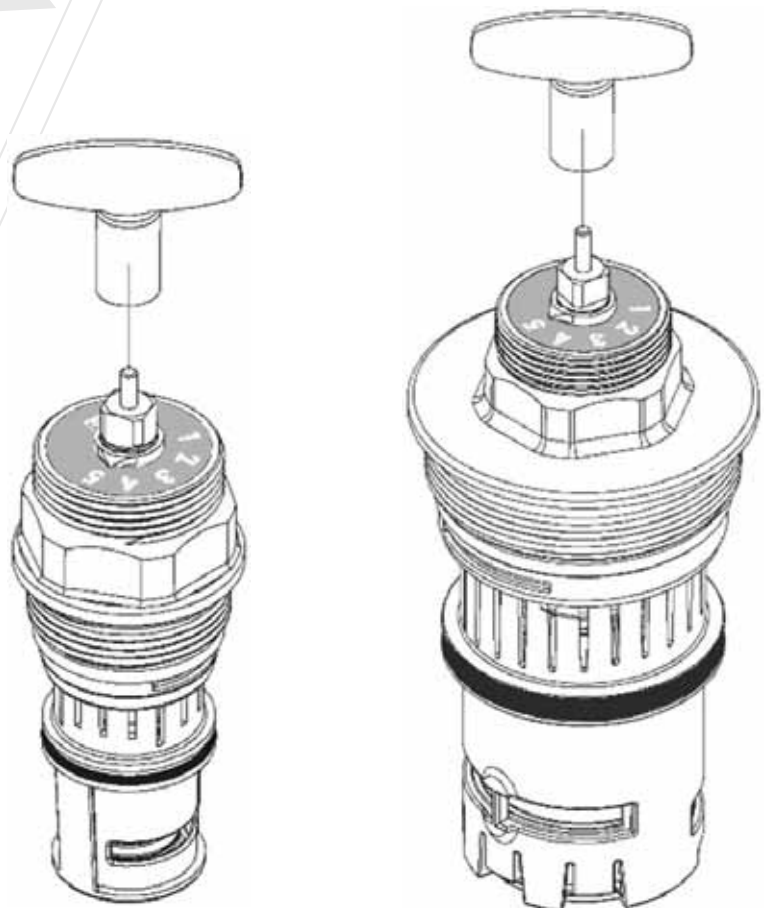
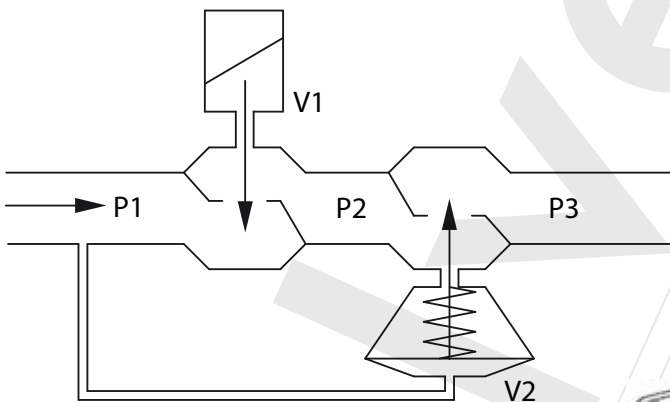
Pre-setting the Maximum Flow Rate

The valveIT PICV is adjusted to a maximum flow rate limit by setting the scale located on the top of the valveIT VERDE. The setting indicates one of 41 possible maximum flow rates from e.g. 0.240 - 1.29 l/sec on valveIT VERDE. 2 but since the setting is stepless any flow rate in between will be obtainable. The setting is done by means of a special valveIT adjusting key. With the actuator mounted, the presetting is "sealed" and the valveIT VERDE eliminates any flow above the design flow.

For re - adjustment, simply disconnect power from the actuator and remove the actuator from the insert. Then dial in the new required maximum flow and re- apply the actuator and connect power again.

Actuator Mounting and Self-Calibration

When using the actuator, always be sure that power supply is turned off and the actuator is in a fully open position (turn the actuator to this position if required) before fitting the actuator to the valveIT VERDE.



Specification - valveIT DZR Brass PICV DN 15 - 40mm

valveIT VERDE.0/.1/.2:

Static pressure	:	2500 kPa / 360 psi
Ambient temperature	:	+1°C to +50°C / +34°F to + 122°F
Media temperature ¹	:	-20°C to + 120°C / -4°F to + 248°F
Material	:	Glass - reinforced PSU / POM / PPS
- VERDE Insert	:	Glass - reinforced PSU / POM / PPS
- Diaphragm	:	VERDE 20mm: EPDM VERDE 40mm: Hydrogenated acrylonitrile-butadiene - rubber
- Internal metal components	:	Stainless steel
- O-rings	:	EPDM
- Cone	:	PPS / EPDM
Maximum close off pressure	:	600 kPaD / 87 psid
Maximum operational ΔP	:	400 kPaD / 58 psid
Shut-off leakage	:	ANSI / FCI 70 - 2 2006 / IEC 60534 - 4 - Class IV
Flow rate range	:	VERDE insert 20mm: 0.0103 - 0.308 l / sec / 0.163 - 4.89 GPM VERDE insert 40mm: 0.240 - 1.29 l / sec / 3.81 - 20.4 GPM

Valve Housing:

Material:	
- Body	: DZR Brass
- End connections	: Fixed female ISO or NPT



*Note: Stated temperature rating is defined due to no external insert condensation.

Specification - Actuators

ValveIT Actuator	FT.o.2	FT.o.3	FT.o.4
Supply voltage	24V AC - 10%... +20%, 50/60Hz	230V AC ±10%, 50 / 60Hz	24V AC/DC - 10%... +20%, 50 / 60Hz
Type	Thermal	Thermal	Thermal
Power consumption	1.2W	1.2W	1.2W
Control signal	Analog 0 - 10V, Normally closed	ON/OFF, Normally closed	ON / OFF, Normally closed
Failsafe Function	Yes	Yes	Yes
Operation time	App. 3.5 minutes	App. 4.5 minutes	App. 4.5 minutes
Ambient temperature	0° C to +60°C	0° C to +60°C	0° C to +60°C
Protection	IP54 including up side - down, class III	IP54 including up side - down, class III	IP54 including up side - down, class III
Cable	Plug - in, 1 meter	Fixed, 1 meter	Fixed, 1 meter
Weight	0.12 kg	0.11 kg	0.11 kg

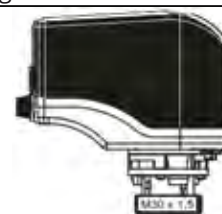


ValveIT Actuator	FN.o.2	FN.o.3	FN.o.4
Supply voltage	24V AC / DC ±10%, 50 / 60Hz	110/230V AC ±10%, 50 / 60Hz	110 / 230V AC ±10%, 50 / 60Hz
Type	Electrical, Bi-directional synchronous motor		
Power consumption	5VA		
Control signal	Analog 0(2) - 10V DC	Digital (2-position / 3-point floating)	Digital (2-position / 3-point floating)
Feedback	Yes, 0(2) - 10V DC	No	No
Failsafe Function	No	No	No
Auto stroke	Yes	No	No
Operation time	50 Hz: 18.5 sec / mm		
Ambient temperature	+2° C to +50°C		
Humidity rating	<95% no condensation		
Protection	IP54, class II		
Cable	Fixed, 4 wires 22 AWG halogen free cable, 1 meter	Fixed, 3 wires 22 AWG halogen free cable, 1 meter	Fixed, 3 wires 22 AWG halogen free cable, 1 meter
Closing point adjust	During operation the actuator will self - adjust according to the closing point of the valve		
Weight	0.25 kg		



F.N. 0.2/F.N.0.3/F.N.0.4

ValveIT Actuator	FN.1.2	FN.1.4
Supply voltage	24V AC / DC ±10%, 50 / 60Hz	
Type	Electrical, Bi-directional synchronous motor	
Power consumption	6VA, 10VA peaks	
Control signal	Analog 0(2) - 10V DC	Digital (2 - position / 3 - point floating)
Feedback	Yes, 0(2) - 10V DC	No
Failsafe Function	No	No
Auto stroke	Yes	No
Operation time	50 Hz: 19 sec / mm	
Ambient temperature	+2° C to +50°C	
Humidity rating	<95% no condensation	
Protection	IP54, class II	
Cable	Fixed, 4 wires 22 AWG halogen free cable, 1 meter	
Closing point adjustment	During operation the actuator will self-adjust according to the closing point of the valve	
Weight	0.30 kg	



F.N. 1.2/F.N.1.4

Flow setting for valveIT VERDE.3

valveIT VERDE.3				
DN40 - 50, 1 1 / 2"-2"				
16 - 400 kPad . 2.3 - 58 psid				
Nominal flow rate	l / sec	l / hr	GPM	Setting
	0.53	1900	8.36	1
	0.63	2278	10	1.1
	0.74	2655	11.7	1.2
	0.84	3033	13.3	1.3
	0.95	3410	15	1.4
	1.05	3787	16.7	1.5
	1.16	4163	18.3	1.6
	1.26	4537	20	1.7
	1.36	4909	21.6	1.8
	1.47	5279	23.2	1.9
	1.57	5646	24.8	2
	1.67	6011	26.4	2.1
	1.77	6372	28	2.2
	1.87	6730	29.6	2.3
	1.97	7083	31.2	2.4
	2.06	7432	32.7	2.5
	2.16	7776	34.2	2.6
	2.25	8115	35.7	2.7
	2.35	8449	37.2	2.8
	2.44	8777	38.6	2.9
	2.53	9098	40	3
	2.61	9413	41.4	3.1
	2.7	9721	42.8	3.2
	2.78	10021	44.1	3.3
	2.86	10314	45.4	3.4
	2.94	10599	46.6	3.5
	3.02	10875	47.8	3.6
	3.1	11142	49	3.7
	3.17	11400	50.2	3.8
3.24	11649	51.3	3.9	
3.3	11888	52.3	4	
3.37	12116	53.3	4.1	
3.43	12334	54.3	4.2	
3.48	12540	55.2	4.3	
3.54	12735	56	4.4	
3.59	12919	56.8	4.5	
3.64	13090	57.6	4.6	
3.68	13249	58.3	4.7	
3.72	13395	58.9	4.8	
3.76	13527	59.5	4.9	
3.79	13647	60	5	

Specification - valveIT Brass / DI PICV DN 40 - 50mm

valveIT VERDE.3:

Static pressure	:	2500 kPa / 360 psi
Ambient temperature	:	+1°C to +50°C / +34°F to +122°F
Media temperature ¹	:	-20°C to +120°C / -4°F to +248°F
Material	:	
- VERDE.3 flow regulation unit	:	Glass - reinforced PSU / PPS / POM
- Metal components (internal)	:	Stainless steel
- O-rings and seats	:	EPDM
- Diaphragm	:	Hydrogenated acrylonitrile - butadiene - rubber
Maximum close off pressure	:	600 kPaD / 87 psid
Maximum operational ΔP	:	400 kPaD / 58 psid
Shut-off leakage	:	ANSI / FCI 70 - 2 2006 / IEC 60534 - 4 - Class IV
Flow rate range	:	0.528-3.79 l / sec / 8.36 - 60.0 GPM

*Note: Stated temperature rating is defined due to no external insert condensation.

Valve Housing:

Material:

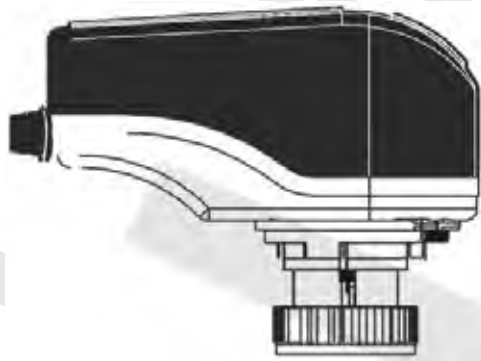
- *Body : Forged brass ASTM CuZn40Pb2 / Ductile iron housing
- End connections : Fixed female ISO or NPT

*Note: Body housing available in brass / DI / DZR Brass

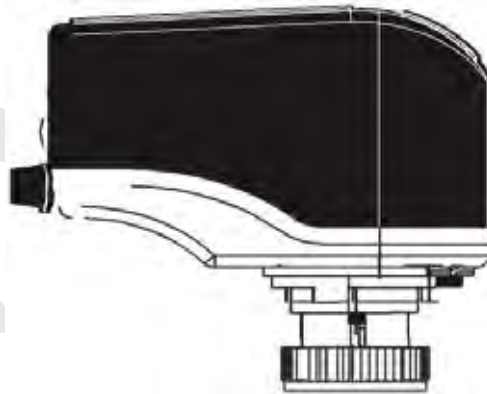


Specification - Actuators

ValveIT Actuator	FH.0.2		FH.0.4		FH.1.2		FH.1.4	
Supply voltage	24V AC/DC ±10%, 50/60Hz							
Type	Electrical, Bi-directional synchronous motor							
Power consumption	5VA							
Control signal	Analog 0(2)-10V DC		Digital (2-position/3-point floating)		Analog 0(2)-10V DC		Digital (2-position/3-point floating)	
Feedback	Yes, 0(2)-10V DC		No		Yes, 0(2)-10V DC		No	
Failsafe Function	No		No		Yes		No	
Auto stroke	Yes		No		Yes		No	
Operation time	50 Hz: 18.5 sec/mm							
Ambient temperature	+2° C to +50°C							
Humidity rating	<95% no condensation							
Protection	IP54, class II							
Cable	Fixed, 4 wires 22 AWG halogen free cable, 1 meter		Fixed, 3 wires 22 AWG halogen free cable, 1 meter		Fixed, 4 wires 22 AWG halogen free cable, 1 meter		Fixed, 3 wires 22 AWG halogen free cable, 1 meter	
Closing point adjustment	During operation the actuator will self-adjust according to the closing point of the valve							
Weight	0.25 kg				0.30 kg			



F.H. 0.2/F.H.0.4



F.H. 1.2/F.H.1.4

valveIT Ductile Iron PICV DN 50 – 250mm**Features**

Pressure rating	: 4000 kPa / 580 psi
Temperature rating, media	: -20°C to +120°C / -4°F to +248°F
Temperature rating, ambient	: -10°C to +50°C / +14°F to +122°F
Material	:
- Diaphragm	: Hydrogenated acrylonitrile - butadiene - rubber
- Body	: Ductile iron ASTM A395 Grade 60 - 40 - 18
- O-rings	: EPDM
- Internal metal components	: Stainless steel
End connection	: Universal flange connections which can be used with both ISO and ANSI Flanges and mounting kits are not supplied by valveIT.
Body tappings	: 1/4" ISO
Maximum close off pressure	: 700 kPa / 100 psi
Maximum operational ΔP	: 600 kPaD / 87 psid
Maximum allowable operating pressure	: 1600 kPaD / 232 psid
Shut - off leakage	: ANSI / FCI 70 - 2 2006 / IEC 60534 - 4 - Class IV
Flow rate range	: 1.48 - 76.8 l / sec / 23.4 - 1220 GPM
Actuator Specification	
valveIT SM.0.0.0.3, SM.0.0.0.4, SM.0.0.0.5 (with BACnet) and SM.0.0.0.6 (with BACnet) actuators	
Supply voltage	: 24V AC / DC
Power consumption	: 12VA
Frequency	: 50 / 60 HZ
Control input	: 0 - 10V DC, 2 - 10V DC, 0 - 20mA, 4 - 20mA, 2 - position or 3 - point floating
Feedback position output	: Automatic match of control input, 0 - 10V DC, 2 - 10V DC or 4 - 20mA
Turn time	: 190 seconds (from closed to fully open valve)
Electrical connection	: 5 wires 22 AWG halogen free cable, 1 meter For BACnet versions another 3 wires 22 AWG halogen free cable, 1 meter



- Direction of rotation : Bi - directional
- Humidity rating : 5 to 95% RH noncondensing
- Housing material : UL94 V0 - rated plastic
- Housing insulation : IP54 including up - side - down mounting
- Programming : External programming of all settings, interface of buttons and display
- Calibration : Automatic calibration at startup
- Valve - actuator coupling : Easy snap coupling
- BACnet device profile : BACnet Application Specific Controller (B - ASC) type server
- BACnet protocol : BACnet Master Slave / Token passing (MS / TP)
- BACnet baud rates supported : 9600, 19200, 38400 and 76800
- BACnet services (BIBBS) supported : DS - RP - B, DS - WP - B, DM - DDB - B, DM - DOB - B and DM - DCC - B.

Flow Rate Table

Mode no.	Valve size		Control range		Minimum setting			Maximum setting		
	mm	inch	kPaD	psid	l / sec	l / hr	GPM	l / sec	l / hr	GPM
SM.3.0	50	2"	30-600	4.5-87	1.48	5310	23.4	4.16	15000	65.9
	65	2, 1/2"								
	80	3"								
SM.3.1	50	2"	30-600	4.5-87	2.57	9240	40.7	7.15	25700	113
	65	2, 1/2"								
	80	3"								
SM.3.2	50	2"	35-600	5.1-87	3.55	12800	56.3	9.89	35600	157
	65	2, 1/2"								
	80	3"								
SM.4.1	80	3"	30-600	4.5-87	3.49	12600	55.4	9.38	33800	149
	100	4"								
SM.4.2	80	3"	35-600	5.1-87	4.73	17000	75	14.2	51000	225
	100	4"								
SM.4.3	80	3"	50-600	7.3-87	3.68	13300	58.3	20.2	72700	320
	100	4"								
SM.5.1	125	5"	30-600	4.5-87	6.48	23300	103	23.3	83800	369
	150	6"								
SM.5.2	125	5"	35-600	5.1-87	7.1	25600	113	29.5	106000	468
	150	6"								
SM.6.2	200	8"	35-600	5.1-87	9.21	33100	146	76.8	277000	1220
	250	10"								

Flow Rate setting -Size DN 50-80

Maximum Flow Rate								
Valave size: DN50 - DN80 . 2" - 3"								
30 - 600 kPad 4.5 - 87 psid SM.3.0			30 - 600 kPad 4.5 - 87 psid SM.3.1			35 - 600 kPad 5.1- 87 psid SM.3.2		
I / sec	I / hr	GPM	I / sec	I / hr	GPM	I / sec	I / hr	GPM
1.48	5310	23.4	2.57	9240	40.7	3.55	12800	56.3
1.58	5700	25.1	2.81	10100	44.6	3.85	13900	61
1.69	6080	26.8	3.05	11000	48.3	4.13	14900	65.5
1.79	6460	28.4	3.27	11800	51.9	4.41	15900	69.9
1.9	6830	30.1	3.49	12500	55.2	4.67	16800	74
2	7190	31.6	3.69	13300	58.4	4.92	17700	78
2.09	7540	33.2	3.88	14000	61.5	5.16	18600	81.7
2.19	7880	34.7	4.06	14600	64.3	5.38	19400	85.3
2.28	8220	36.2	4.23	15200	67	5.6	20200	88.8
2.37	8540	37.6	4.39	15800	69.6	5.81	20911	92.1
2.46	8860	39	4.54	16300	72	6.01	21600	95.2
2.55	9170	40.4	4.68	16900	74.2	6.19	22300	98.2
2.63	9470	41.7	4.82	17300	76.4	6.37	22900	101
2.71	9770	43	4.94	17800	78.4	6.54	23600	104
2.79	10100	44.3	5.06	18200	80.2	6.71	24100	106
2.87	10300	45.5	5.17	18600	82	6.86	24700	109
2.95	10600	46.7	5.28	19000	83.7	7	25200	111
3.02	10900	47.8	5.38	19400	85.2	7.14	25700	113
3.09	11100	49	5.47	19700	86.6	7.28	26200	115
3.16	11400	50	5.55	20000	88	7.4	26600	117
3.22	11600	51.1	5.63	20300	89.2	7.52	27100	119
3.29	11800	52.1	5.7	20500	90.4	7.63	27500	121
3.35	12000	53.1	5.77	20800	91.5	7.74	27900	123
3.41	12300	54	5.84	21000	92.5	7.84	28200	124
3.46	12500	54.9	5.9	21200	93.5	7.94	28600	126
3.52	12700	55.8	5.96	21400	94.4	8.03	28900	127
3.57	12900	56.6	6.01	21600	95.2	8.12	29200	129
3.62	13000	57.4	6.06	21800	96	8.2	29500	130
3.67	13200	58.2	6.1	22000	96.8	8.28	29800	131
3.72	13400	58.9	6.15	22100	97.5	8.36	30100	133
3.76	13500	59.6	6.19	22300	98.2	8.44	30400	134
3.8	13700	60.2	6.23	22400	98.8	8.51	30600	135
3.84	13800	60.9	6.27	22600	99.4	8.58	30900	136
3.88	14000	61.4	6.31	22700	101	8.65	31100	137
3.91	14100	62	6.35	22900	101	8.72	31400	138
3.94	14200	62.5	6.39	23000	101	8.78	31600	139
3.97	14300	63	6.42	23100	102	8.85	31900	140
4	14400	63.4	6.46	23300	102	8.91	32100	141
4.03	14500	63.8	6.5	23400	103	8.98	32300	142
4.05	14600	64.2	6.54	23500	104	9.04	32600	143
4.07	14700	64.5	6.58	23700	104	9.11	32800	144
4.09	14700	64.8	6.62	23800	105	9.18	33000	145
4.11	14800	65.1	6.67	24000	106	9.25	33300	147
4.12	14800	65.3	6.72	24200	106	9.32	33500	148
4.13	14900	65.5	6.77	24400	107	9.39	33800	149
4.14	14900	65.7	6.82	24600	108	9.46	34100	150
4.15	14900	65.8	6.88	24800	109	9.54	34300	151
4.16	15000	65.9	6.94	25000	110	9.62	34600	153
4.16	15000	65.9	7.01	25200	111	9.71	34900	154
4.16	15000	65.9	7.08	25500	112	9.79	35300	155
4.16	15000	65.9	7.15	25700	113	9.89	35600	157

Flow Rate setting - Size DN 80 - 100

Maximum Flow Rate								
Valave size: DN80-DN100 . 3"- 4"								
30 - 600 kPad 4.5 - 87 psid SM.4.1			30 - 600 kPad 5.1 - 87 psid SM.4.2			50 - 600 kPad 7.3 - 87 psid SM.4.3		
I / sec	I / hr	GPM	I / sec	I / hr	GPM	I / sec	I / hr	GPM
3.49	12600	55.4	4.73	17000	75	3.68	13300	58.3
3.88	14000	61.6	5.29	19000	83.8	4.42	15900	70
4.26	15300	67.5	5.82	21000	92.3	5.13	18500	81.3
4.61	16600	73	6.33	22800	100	5.82	21000	92.3
4.94	17800	78.4	6.82	24500	108	6.5	23400	103
5.26	18900	83.4	7.28	26200	115	7.15	25700	113
5.56	20000	88.1	7.72	27800	122	7.78	28000	123
5.84	21000	92.6	8.14	29300	129	8.4	30200	133
6.11	22000	96.9	8.54	30700	135	8.99	32400	142
6.36	22900	101	8.91	32100	141	9.57	34400	152
6.6	23800	105	9.27	33400	147	10.1	36400	160
6.82	24600	108	9.61	34600	152	10.7	38400	169
7.03	25300	111	9.93	35700	157	11.2	40200	177
7.23	26000	115	10.2	36800	162	11.7	42100	185
7.41	26700	117	10.5	37800	167	12.2	43800	193
7.58	27300	120	10.8	38800	171	12.6	45500	200
7.73	27800	123	11	39700	175	13.1	47100	207
7.88	28400	125	11.3	40500	178	13.5	48700	214
8.01	28800	127	11.5	41300	182	13.9	50200	221
8.14	29300	129	11.7	42000	185	14.3	51600	227
8.25	29700	131	11.9	42700	188	14.7	53000	233
8.35	30100	132	12	43400	191	15.1	54300	239
8.45	30400	134	12.2	43900	184	15.4	55600	245
8.53	30700	135	12.4	44500	196	15.8	56800	250
8.61	31000	137	12.5	45000	198	16.1	58000	255
8.68	31300	138	12.6	45500	200	16.4	59100	260
8.75	31500	139	12.7	45900	202	16.7	60200	265
8.8	31700	140	12.9	46300	204	17	61200	269
8.85	31900	140	13.	46700	205	17.3	62100	274
8.9	32000	141	13.1	47000	207	17.5	63000	278
8.94	32200	142	13.1	47300	208	17.8	63900	281
8.97	32300	142	13.2	47600	209	18	64700	285
9	32400	143	13.3	47800	210	18.2	65500	288
9.03	32500	143	13.4	48100	212	18.4	66200	292
9.05	32600	143	13.4	48300	213	18.6	66900	295
9.07	32600	144	13.5	48500	214	18.8	67600	297
9.09	32700	144	13.5	48700	214	18.9	68200	300
9.1	32800	144	13.6	48800	215	19.1	68700	303
9.12	32800	145	13.6	4900	216	19.2	69200	305
9.13	32900	145	13.7	49200	217	19.4	69700	307
9.15	32900	145	13.7	49300	217	19.5	70200	309
9.16	33000	145	13.7	49500	218	19.6	70600	311
9.18	33000	145	13.8	49600	218	19.7	70900	312
9.19	33100	146	13.8	49800	219	19.8	71300	314
9.21	33200	146	13.9	49900	220	19.9	71600	315
9.23	33200	146	13.9	50100	220	20	71900	316
9.25	33300	147	14	50200	221	20	72100	317
9.28	33400	147	14	50400	222	20.1	72300	318
9.31	33500	148	14.1	50600	223	21.1	72500	319
9.34	33600	148	14.1	50800	224	20.2	72600	320
9.38	33800	149	14.2	51000	225	20.2	72700	320

Flow Rate setting - Size DN 125 - 250

Maximum Flow Rate						Maximum Flow Rate					
Valave size: DN125 and DN150 . 5" - 6"						Valave size: DN200 and DN250 . 8" - 10"					
30 - 600 kPad 4.5 - 87 psid SM.5.1			30 - 600 kPad 5.1- 87 psid SM.5.2			35 - 600 kPad 5.1 - 87 psid SM.6.2					
I / sec	I / hr	GPM	I / sec	I / hr	GPM	I / sec	I / hr	GPM	I / sec	I / hr	GPM
6.48	23300	103	7.1	25600	113	9.21	33100	146	57.5	207000	911
7.24	26100	115	8.06	29000	128	9.69	34900	154	58.3	210000	924
7.98	28700	126	8.98	32300	142	10.2	36800	162	59.1	213000	936
8.7	31300	138	9.87	35500	157	10.8	38900	171	59.8	215000	948
9.39	33800	149	10.7	38600	170	11.5	41200	182	60.6	218000	960
10.1	36200	160	11.6	41600	183	12.1	43700	192	61.3	221000	972
10.7	38600	170	12.4	44500	196	12.9	46300	204	62	223000	983
11.4	40900	180	13.1	47300	208	13.6	49100	216	62.7	226000	994
12	43100	190	13.9	50000	220	14.5	52000	229	63.4	228000	1000
12.6	45200	199	14.6	52600	232	15.3	55100	242	64	230000	1010
13.1	47300	208	15.3	55100	243	16.2	58200	256	64.6	233000	1020
13.7	49300	217	16	57500	253	17.1	61500	271	65.2	235000	1030
14.2	51200	226	16.6	59800	264	18	64900	286	65.8	237000	1040
14.8	53100	234	17.2	62100	273	19	68400	301	66.4	239000	1050
15.3	54900	242	17.8	64200	283	20	71900	317	66.9	241000	1060
15.7	56600	249	18.4	66300	292	21	75600	333	67.4	243000	1070
16.2	58300	257	19	68300	301	22	79300	349	68	245000	1080
16.6	59900	264	19.5	70200	309	23.1	83100	366	68.4	246000	1080
17.1	61500	271	20	72100	317	24.1	86900	383	68.9	248000	1090
17.5	63000	277	20.5	73800	325	25.2	90800	400	69.4	250000	1100
17.9	64400	284	21	75500	333	26.3	94700	417	69.8	251000	1110
18.3	65800	290	21.4	77200	340	27.4	98700	435	70.2	253000	1110
18.6	67100	295	21.9	78700	347	28.5	103000	452	70.6	254000	1120
19	68300	301	22.3	80200	353	29.6	107000	470	71	256000	1130
19.3	69500	306	22.7	81700	360	30.8	111000	488	71.4	257000	1130
19.6	70700	311	23.1	83100	366	31.9	115000	506	71.8	258000	1140
19.9	71700	316	23.4	84400	372	33	119000	523	72.1	260000	1140
20.2	72800	320	23.8	85700	377	34.2	123000	541	72.5	261000	1150
20.5	73800	325	24.1	86900	383	35.3	127000	559	72.8	262000	1150
20.7	74700	329	24.5	88100	388	36.4	131000	577	73.2	263000	1160
21	75600	333	24.8	89200	393	37.5	135000	595	73.5	265000	1170
21.2	76400	336	25.1	90300	398	38.6	139000	613	73.8	266000	1170
21.4	77200	340	25.4	91400	402	39.8	143000	630	74.2	267000	1180
21.6	77900	343	25.7	92400	407	40.9	147000	648	74.5	268000	1180
21.8	78600	346	25.9	93400	411	41.9	151000	665	74.8	269000	1190
22	79200	349	26.2	94300	415	43	155000	682	75.1	270000	1190
22.2	79800	351	26.5	95200	419	44.1	159000	699	75.5	272000	1200
22.3	80300	354	26.7	96100	423	45.2	163000	716	75.8	273000	1200
22.5	80800	356	26.9	97000	427	46.2	166000	732	76.1	274000	1210
22.6	81300	358	27.2	97800	431	47.2	170000	749	76.5	275000	1210
22.7	81700	360	27.4	98600	434	48.3	174000	765	76.8	277000	1220
22.8	82100	361	27.6	99400	438	49.3	177000	781			
22.9	82400	363	27.8	100000	441	50.2	181000	796			
23	82700	364	28.1	101000	445	51.2	184000	812			
23	83000	365	28.3	102000	448	52.2	188000	827			
23.1	83200	366	28.5	102000	451	53.1	191000	842			
23.2	83400	367	28.7	103000	455	54	194000	856			
23.2	83500	368	28.9	104000	458	54.9	198000	870			
23.2	83600	368	29.1	105000	461	5.8	201000	884			
23.3	83700	369	29.3	105000	464	56.6	204000	898			
23.3	83800	369	29.5	106000	468	57.5	207000	911			

valveIT Cast Iron Double Regulating Valve

Features

- PN 16
- Variable Orifice
- Cast Iron Double Regulating and Commissioning Valve
- Tests acc. to EN - 12266 - 1
- Y Pattern
- high tightness (leakproofness class - A acc. to EN -12266 - 1)
- Flanged to BS 4504 / DIN PN 16 (EN1092)
- Variable Orifice with liner scale and circular scale
- Complies to BS 7350 requirements
- Valves have unique design which enables the disc to be locked in the set - position
- Two points (inlet / outlet) are available on the body of the valve for fixing the measuring nipples / test plugs for measurement of flow / delta P(balancing).



Hydrostatic Test Pressure

- Body : 24 bar
- Seat : 17.6 bar

Face to Face Dimensions

EN 558 - 1 Basic Series 1

Pressure / Temperature Rating

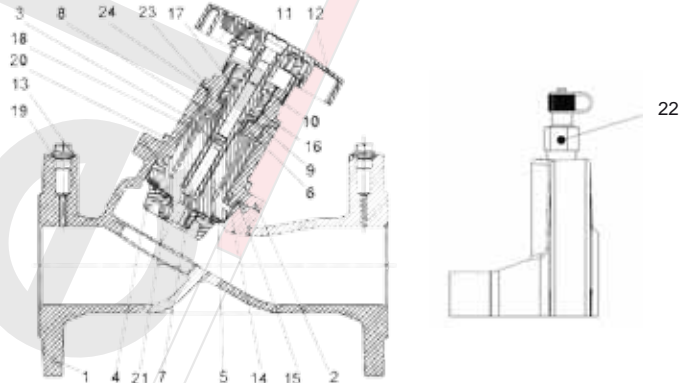
16 bar at - 10 to 120 deg C

Maximum Differential Pressure

- DN 65 - DN 200 : 16 bar
- DN 250 : 6 bar
- DN 300 : 4 bar

*On Request (Forward Delivery)

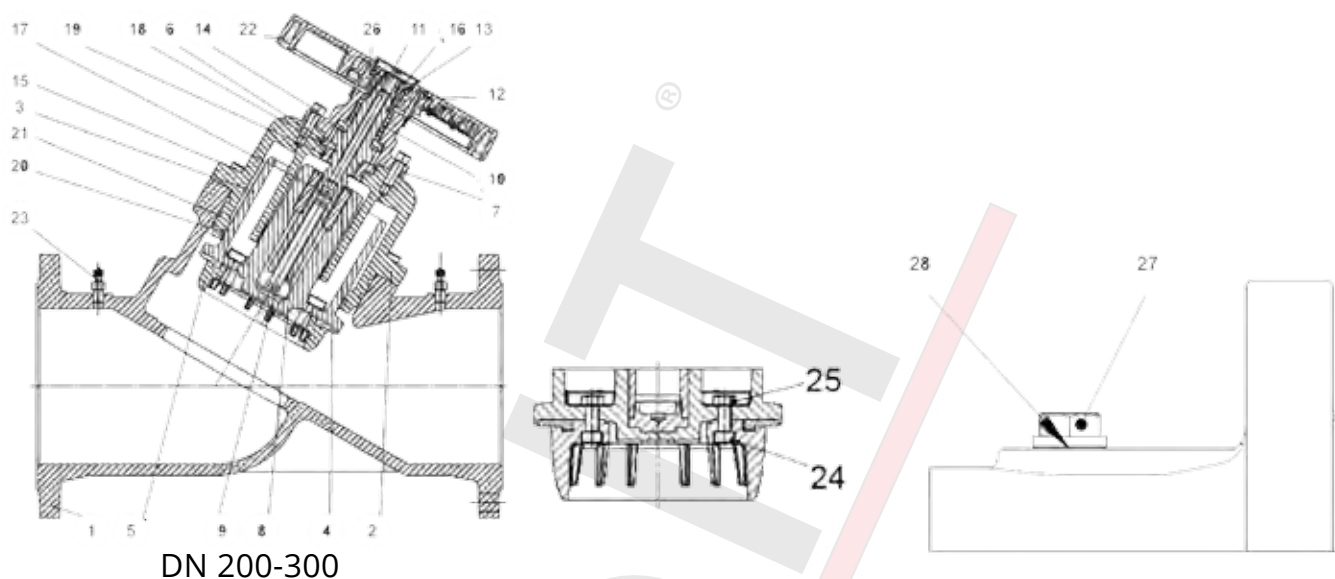
- Available with ANSI Flange drilling
- *Subject to minimum order quantity



DN 65-150

Material Specification

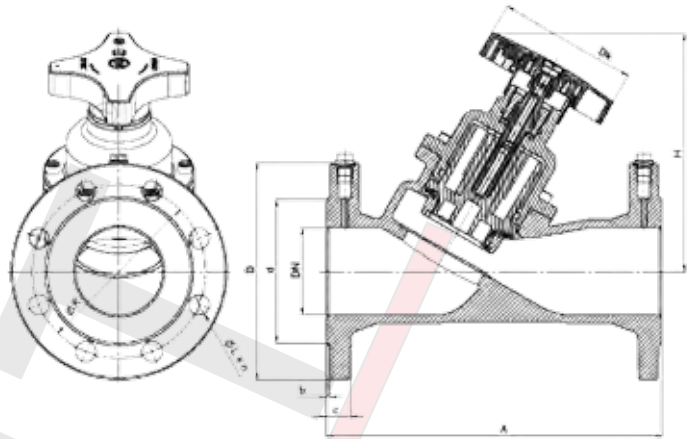
No	Component	Material
1	body	EN - GJL - 250 5.1301 (ex.JL 1040)
2,23	bonnet	EN - GJL - 250 5.1301 (ex.JL 1040)
3	disc	composite material
4	control ring	composite material
5	disc gasket	EPDM
6	stem	CuZn36Pb2As
7	open limiter	CuZn36Pb2As
8	tap screw	CuZn37
9	washer	CuZn36Pb2As
10	tap screw	CuZn36Pb2As
11	screw	CuZn37
12	hand-wheel	POLIAMID PA6.6
13*	plug	C35E
14-18,24	o-ring	EPDM
19*	plug sealing	carbamide rubber
20	allen screw	8.8 A2A
21	self - tapping screw	A2
22	pressure tap	G 1/4"
	max temperature	120°C



Material Specification

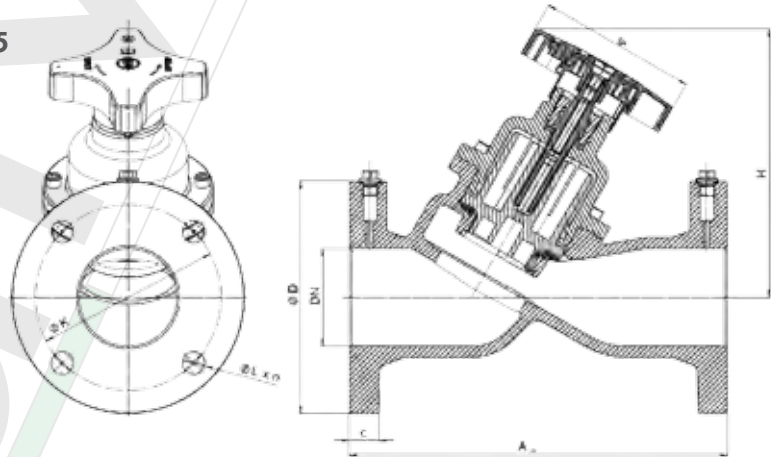
No	Component	Material
1	body	EN - GJL - 250 5.1301 (ex.JL 1040)
2	bonnet	EN - GJS - 500 - 7 5.3200 (ex.JS 1050)
3	disc	composite material
4	disc gasket	EPDM
5	control ring	composite material
6	bush	CuZn36Pb2As
7	top cover	EN - GJL - 250 5.1301 (ex.JL 1040)
8	stem	CuZn36Pb2As
9	open limiter	CuZn36Pb2As
10	guide bush	CuZn40Pb2
11	tap screw	X5CrNi18 - 10
12	hub	CuZn40Pb2
13	washer	CuZn40Pb2
14	allen screw	8.8 A2A
15	allen screw	8.8 A2A
16	nut	5 A2A
17 - 21	stem o - ring	EPDM
22	hand-wheel	POLIAMID PA6.6
23	pressure tap	G 1/4"
24	allen screw	A2 - 70
25	nut	A2 - 70
26	stem's bush	CuZn40Pb2
27*	plug	C35E
28*	plug sealing	carbamide - rubber
	max. temperature	120°C

DIMENSIONS acc. to EN 1092-2



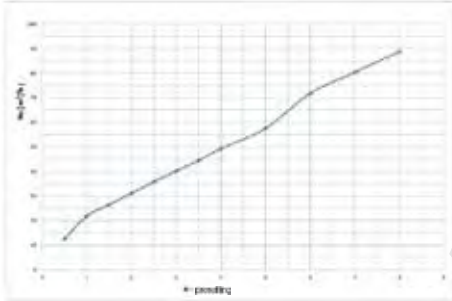
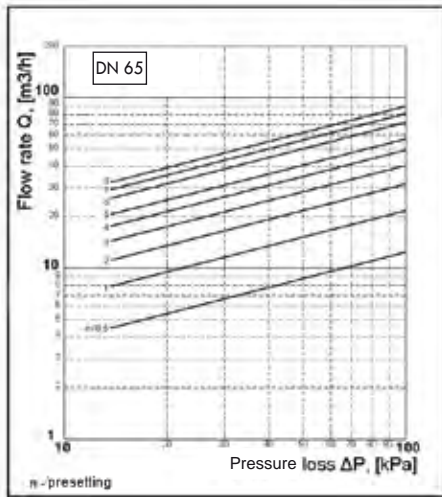
DN	A	D	K	b	c	d	Dk	H	L	n	Kvs	
mm										pcs.	m ³ /h	kg
40	200	150	110	3	18	84	74	130	19	4	22,36	6,1
50	230	165	125	3	20	99	74	130	19	4	32,15	8,3
65	290	185	145	3	20	118	130	220	19	4	88,8	13,5
80	310	200	160	3	22	132	130	220	19	8	113,4	17,8
100	350	220	180	3	24	156	130	240	19	8	184,7	22,7
125	400	250	210	3	26	184	130	260	19	8	285,1	34,0
150	480	285	240	3	26	211	130	285	23	8	390,2	48,5
200	600	340	295	3	30	266	310	480	23	12	710,0	114,5
250	730	405	355	3	32	319	310	525	28	12	1187,5	159,0
300	850	460	410	4	32	370	310	535	28	12	1504,1	210,5

DIMENSIONS acc. to ASME B 16.1 class 125



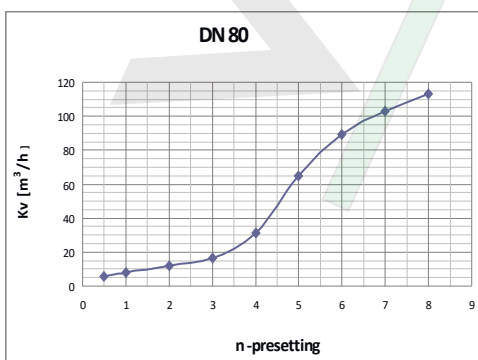
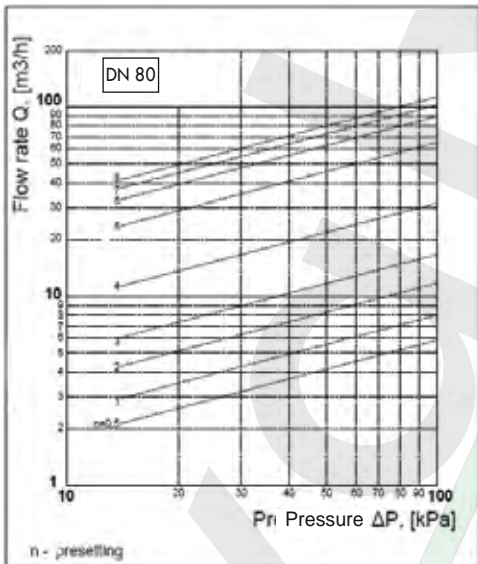
DN	A		D		K		c		Dk		H		L		n	Kvs	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	pcs.	m ³ /h
40	1 1/2	200	8	127	5	98,4	3 7/8	18	11/16	74	2.9	230	5.1	16	5/8	4	22,36
50	2	230	9.05	152	6	121	4 3/4	19	3/4	74	2.9	230	5.1	19	3/4	4	32,15
65	2 1/2	290	11.4	178	7	139,7	5 1/2	22	7/8	130	5.1	220	8.7	19,05	3/4	4	88,8
80	3	310	12.2	191	7 1/2	152,4	6	24	15/16	130	5.1	220	8.7	19,05	3/4	4	113,4
100	4	350	13.8	229	9	190,5	7 1/2	24	15/16	130	5.1	240	9.5	19,05	3/4	8	184,7
125	5	400	15.8	254	10	215,9	8 1/2	24	15/16	130	5.1	250	9.8	22,35	7/8	8	285,1
150	6	480	18.9	279	11	241,3	9 1/2	26	1	130	5.1	285	11.2	22,35	7/8	8	390,2
200	8	600	23.6	343	13 1/2	299	11 3/4	29	1 1/8	310	12.2	480	18.9	22,35	7/8	8	710,0
250	10	730	28.7	406	16	362	14 1/4	30,5	1 3/16	310	12.2	525	20.7	25,4	1	12	1187,5
300	12	850	33.5	483	19	432	17	32	1 1/4	310	12.2	535	21.1	25,4	1	12	1504,1

HYDRAULIC CHARACTERISTICS DN65



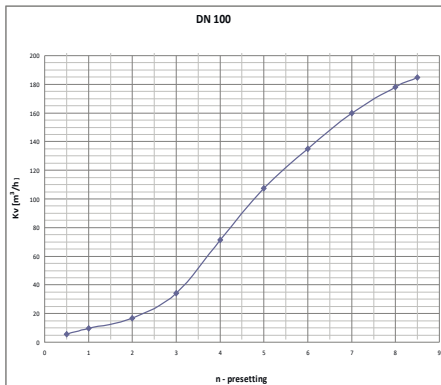
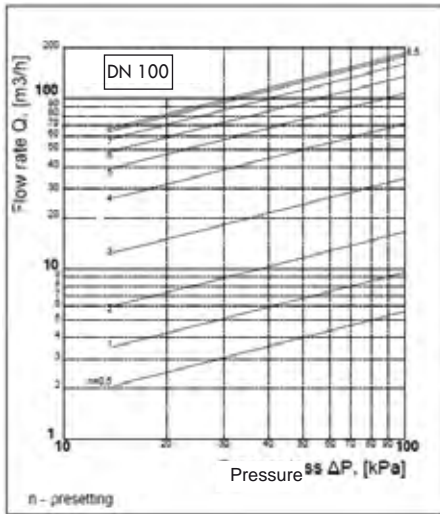
DN 65					
Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]
0,5	12,5	3,3	42,6	5,7	67,6
1,0	21,9	3,4	43,5	5,8	69,1
1,1	22,9	3,5	44,4	5,9	70,5
1,2	23,9	3,6	45,4	6,0	71,8
1,3	24,7	3,7	46,4	6,1	72,9
1,4	25,6	3,8	47,4	6,2	73,9
1,5	26,4	3,9	48,4	6,3	74,9
1,6	27,3	4,0	49,3	6,4	75,8
1,7	28,3	4,1	50,1	6,5	76,6
1,8	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

HYDRAULIC CHARACTERISTICS DN80



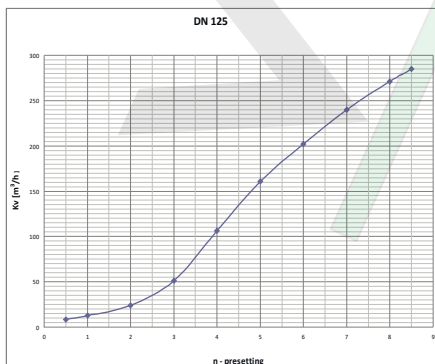
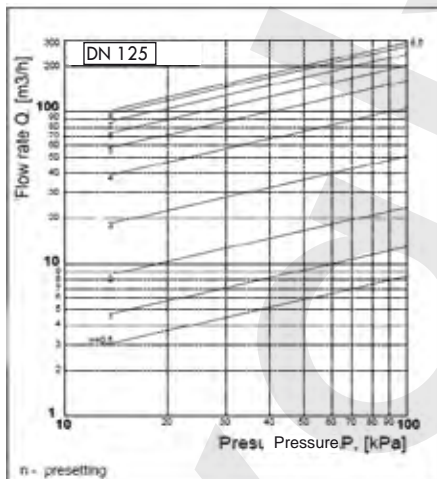
DN 80					
Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]
0,5	5,9	3,3	19,4	5,7	83,8
1,0	7,9	3,4	20,6	5,8	85,8
1,1	8,4	3,5	21,9	5,9	87,6
1,2	8,7	3,6	23,4	6,0	89,3
1,3	9,1	3,7	25,0	6,1	90,9
1,4	9,5	3,8	26,9	6,2	92,5
1,5	9,9	3,9	28,9	6,3	93,9
1,6	10,3	4,0	31,2	6,4	95,3
1,7	10,7	4,1	33,6	6,5	96,6
1,8	11,0	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

HYDRAULIC CHARACTERISTICS DN100



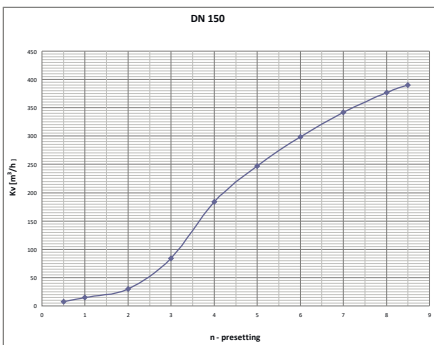
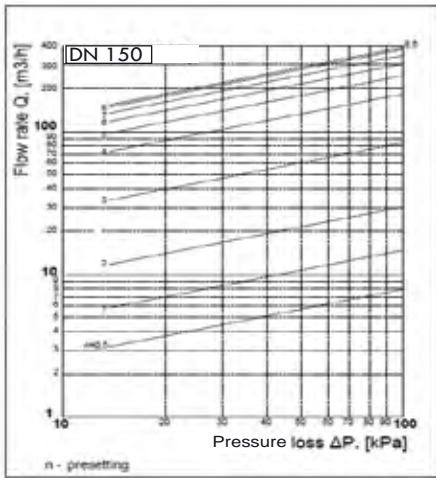
DN 100					
Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]
0,5	5,6	3,5	50,5	6,1	137,6
1,0	9,6	3,6	54,4	6,2	140,3
1,1	10,2	3,7	58,6	6,3	142,9
1,2	10,9	3,8	62,8	6,4	145,5
1,3	11,5	3,9	67,1	6,5	148,1
1,4	12,1	4,0	71,4	6,6	150,6
1,5	12,8	4,1	75,5	6,7	153,0
1,6	13,4	4,2	79,6	6,8	155,4
1,7	14,1	4,3	83,5	6,9	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		

HYDRAULIC CHARACTERISTICS DN125



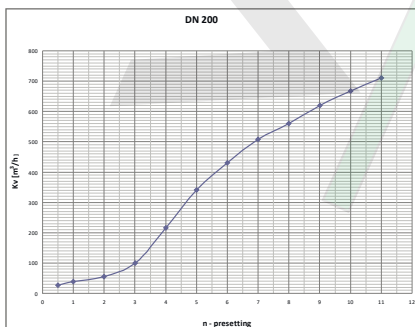
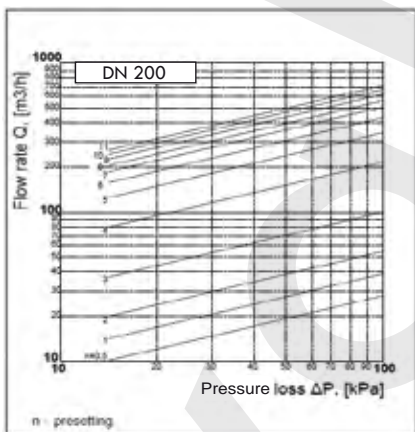
DN 125					
Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]
0,5	8,3	3,5	77,0	6,1	205,8
1,0	13,0	3,6	82,7	6,2	209,8
1,1	13,9	3,7	88,5	6,3	213,8
1,2	14,9	3,8	94,5	6,4	217,7
1,3	15,8	3,9	100,4	6,5	221,6
1,4	16,8	4,0	106,5	6,6	225,4
1,5	17,8	4,1	112,5	6,7	229,1
1,6	18,9	4,2	118,5	6,8	232,8
1,7	19,9	4,3	124,3	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		

HYDRAULIC CHARACTERISTICS DN150



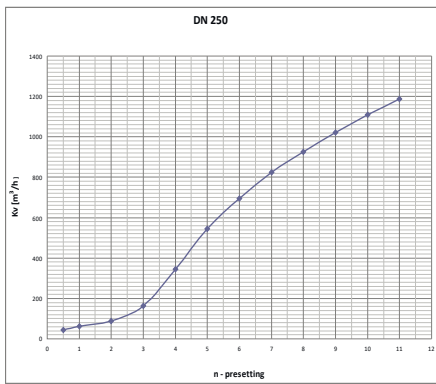
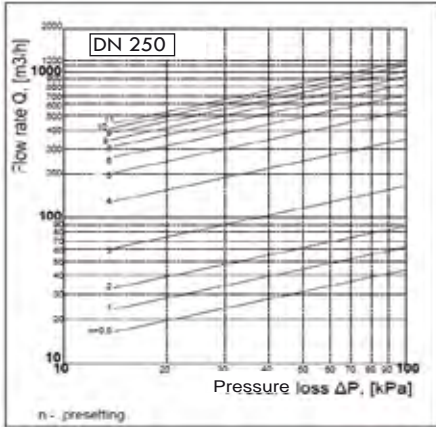
DN 150					
Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]
0,5	7,9	3,5	132,0	6,1	303,0
1,0	14,8	3,6	143,1	6,2	307,7
1,1	15,6	3,7	154,0	6,3	312,3
1,2	16,3	3,8	164,6	6,4	316,9
1,3	17,1	3,9	174,5	6,5	321,3
1,4	18,0	4,0	183,7	6,6	325,7
1,5	19,1	4,1	192,0	6,7	329,9
1,6	20,5	4,2	199,6	6,8	334,1
1,7	22,1	4,3	206,7	6,9	338,2
1,8	24,2	4,4	213,3	7,0	342,2
1,9	26,7	4,5	219,5	7,1	346,1
2,0	29,7	4,6	225,3	7,2	349,9
2,1	33,2	4,7	231,0	7,3	353,6
2,2	37,2	4,8	236,5	7,4	357,2
2,3	41,7	4,9	241,8	7,5	360,7
2,4	46,5	5,0	247,1	7,6	364,2
2,5	51,8	5,1	252,4	7,7	367,5
2,6	57,4	5,2	257,7	7,8	370,7
2,7	63,4	5,3	262,9	7,9	373,8
2,8	69,7	5,4	268,1	8,0	376,8
2,9	76,4	5,5	273,3	8,1	379,7
3,0	83,7	5,6	278,4	8,2	382,5
3,1	91,7	5,7	283,5	8,3	385,2
3,2	100,7	5,8	288,4	8,4	387,7
3,3	110,5	5,9	293,4	8,5	390,2
3,4	121,1	6,0	298,2		

HYDRAULIC CHARACTERISTICS DN200



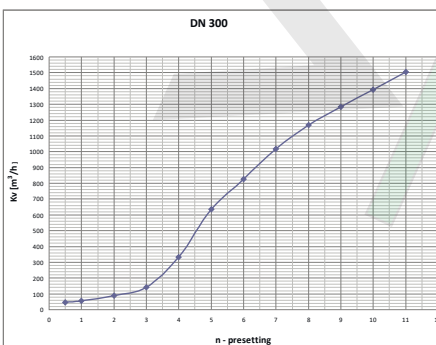
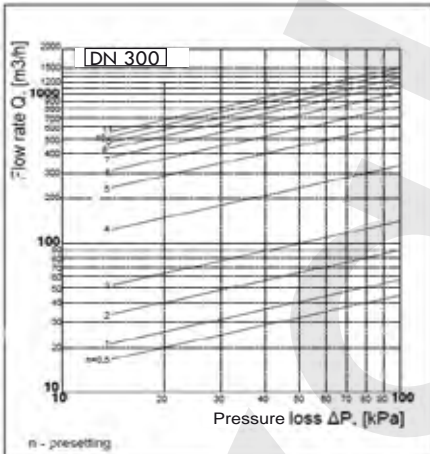
DN 200							
Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]	Turn	Kv [m³/h]
0,5	27,5	3,5	148,6	6,1	438,5	8,7	602,0
1,0	38,6	3,6	161,0	6,2	447,0	8,8	607,9
1,1	40,1	3,7	174,2	6,3	455,4	8,9	613,7
1,2	41,5	3,8	187,9	6,4	463,7	9,0	619,3
1,3	42,9	3,9	202,0	6,5	471,7	9,1	624,7
1,4	44,2	4,0	216,2	6,6	479,6	9,2	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		

HYDRAULIC CHARACTERISTICS DN250



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		

HYDRAULIC CHARACTERISTICS DN300



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		

valveIT DZR Brass Balancing Valve

Features

- PN 25
- Fixed Orifice
- Brass Double Regulating and Commissioning Valve
- Y Pattern
- Threaded ends to ISO 228 / 1
- Maintenance free valve.
- Low flow resistance due to unique design.
- Valves have unique design which enables the disc to be locked in the set position
- Two ports (inlet / outlet) are available on the body of the DRV
- These points are for fixing the measuring nipples or test plugs for the measurement of flow / delta P (balancing)

Pressure

maximum allowable working pressure (PN)
25 bar

Temperature

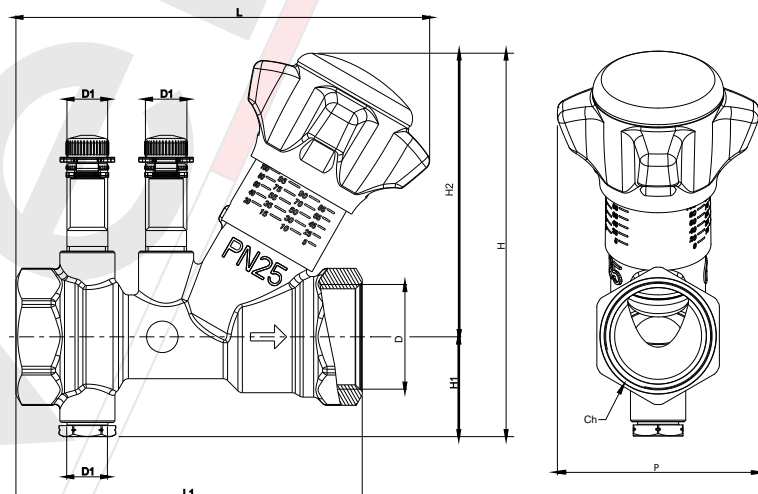
allowable working temperature
0° C (excluding ice) ÷ 110°C

Compatible Fluid

water
glycolate solutions
max glycol 50%

Threading

pipeline connection: threading acc.to ISO 228 / 1
discharge plugs: threading G1/4" acc. to ISO228 / 1
connections for pressure sensors with needle: Ø 3 mm



Material Specification

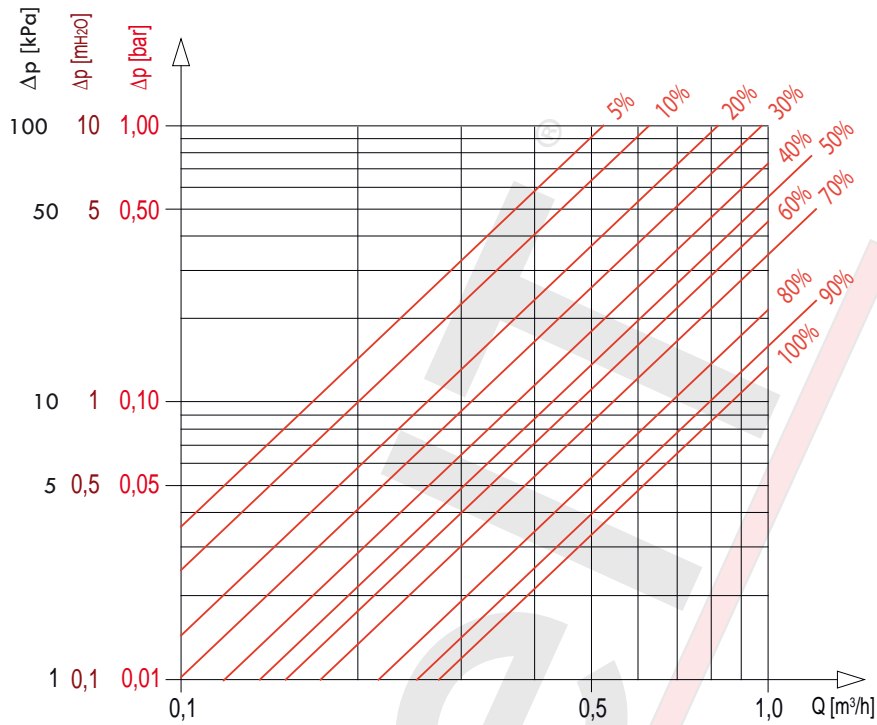
Component	Material
Body	brass DZR EN12165 - CW602N
Internal parts	brass DZR EN12164 - CW602N
O-ring washers and other elements	EPDM rubber
Handwheel	ABS plastic

Dimensions

D	D1	H [mm]	H1[mm]	H2 [mm]	L [mm]	L1[mm]	P [mm]	Kv (Venturi flow-meter)	Kv (valve)	Weight Kg
1/2"	1/4"	119	25	94	131	95	64	4,0	2,7	0.55
3/4"	1/4"	118	28	90	131	101	64	7,5	5,5	0.61
1"	1/4"	122	32	90	131	110	64	11,0	7,0	0.70
1"1/4	1/4"	129	35	94	137	120	64	13,5	9,5	0.85
1"1/2	1/4"	166	39	127	163	140	64	24,0	18,5	1.375
2"	1/4"	172	45	127	169	154	70	31,0	25,5	1.735

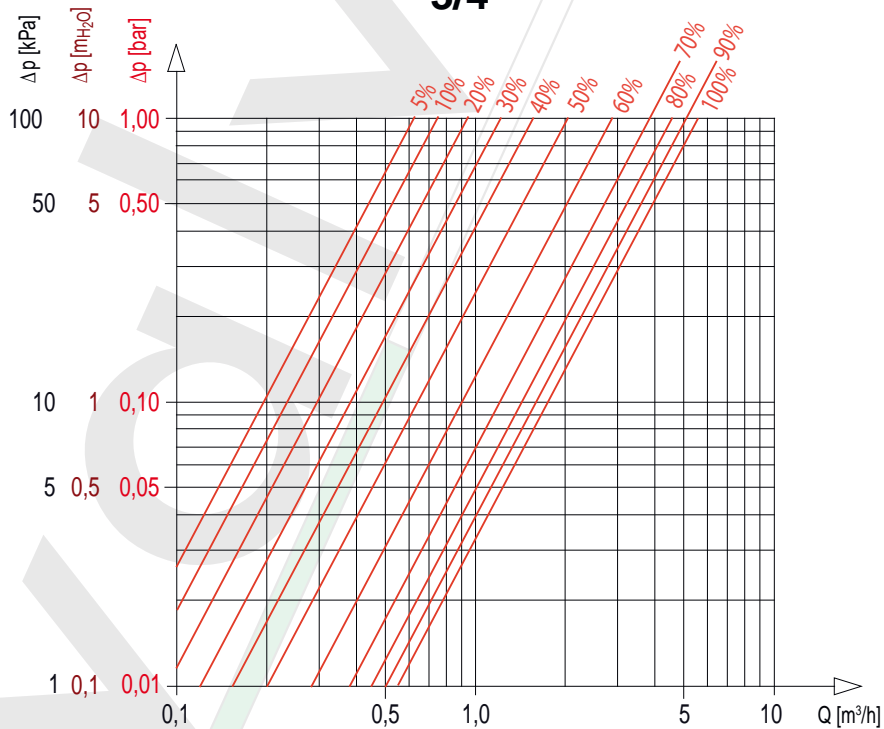
HEAD LOSS DIAGRAM

1/2"

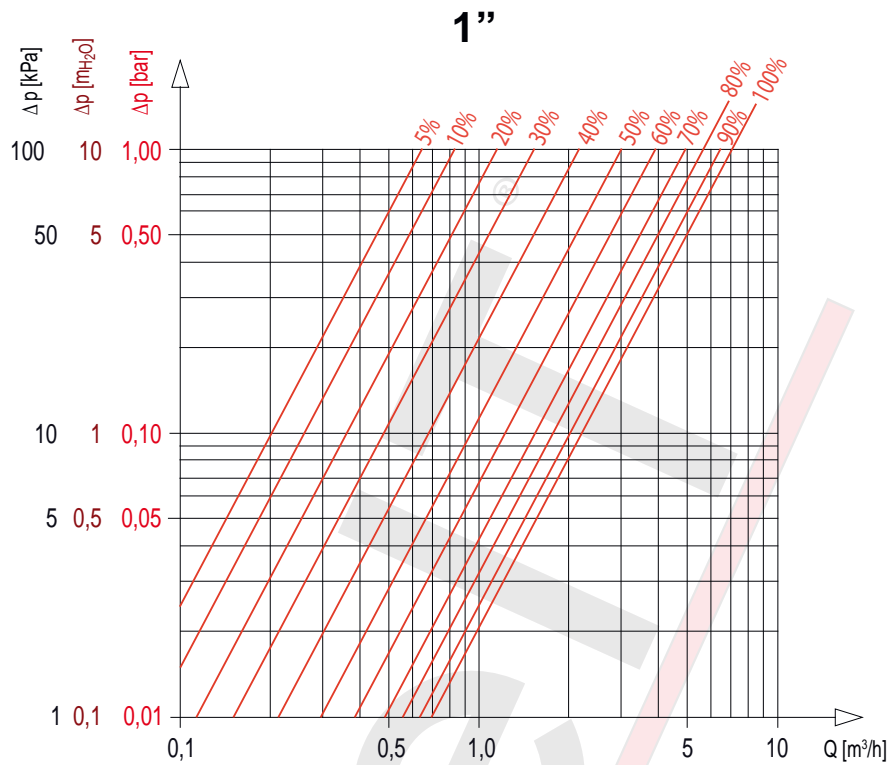


Setting%	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5
Kv	2,70	2,54	2,48	2,34	2,18	1,99	1,71	1,59	1,48	1,41	1,33	1,28	1,19	1,09	0,98	0,92	0,83	0,73	0,63	0,53

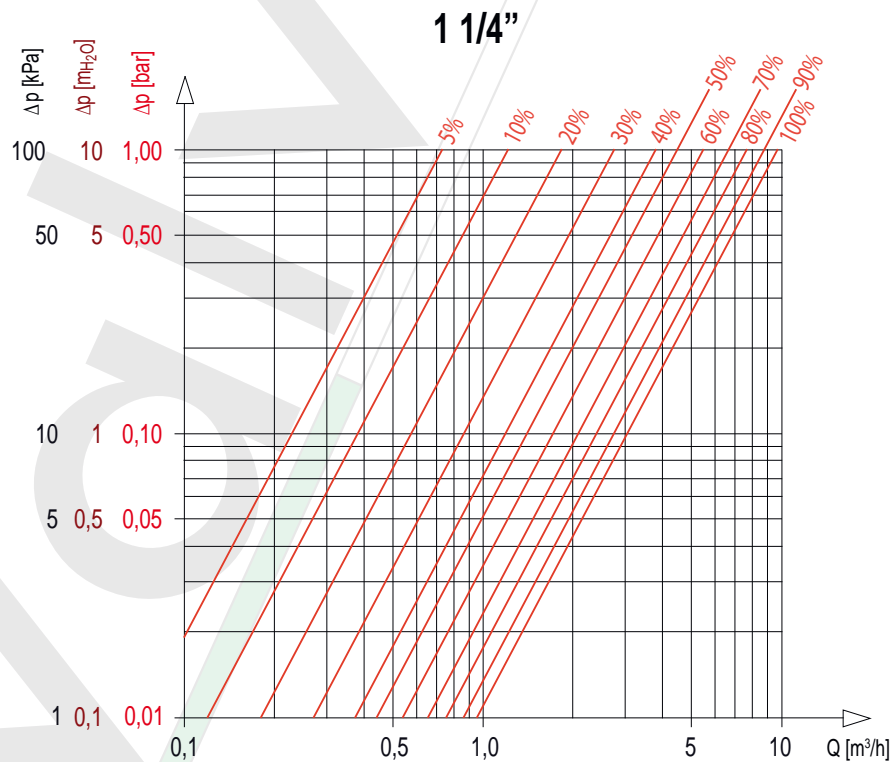
3/4"



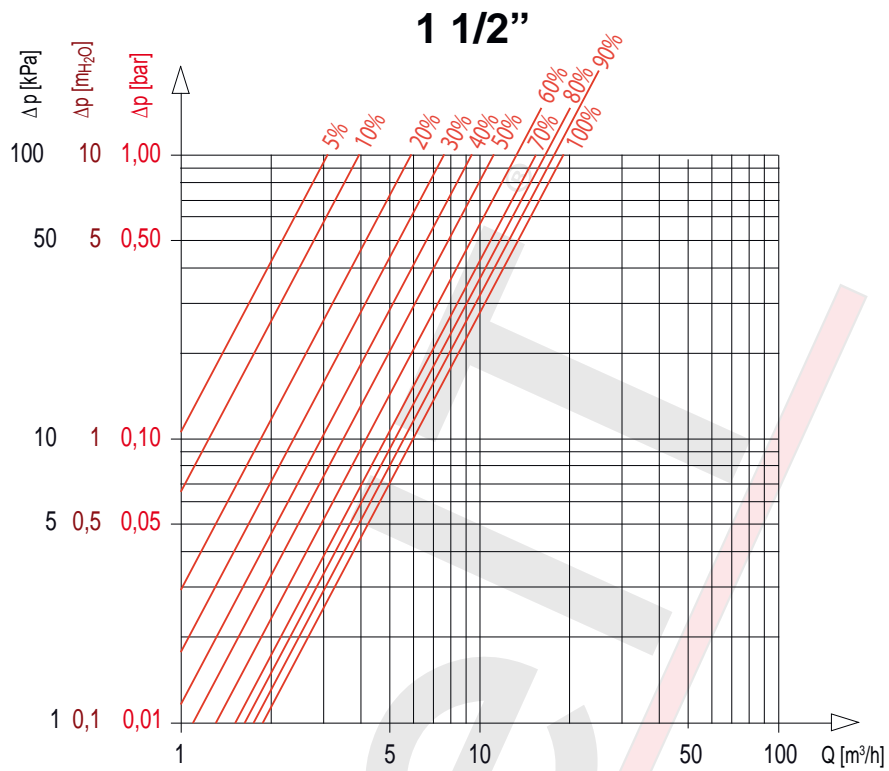
Setting%	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5
Kv	5,50	5,20	5,00	4,80	4,57	4,35	3,95	3,50	2,88	2,37	2,00	1,81	1,58	1,39	1,24	1,10	0,96	0,85	0,75	0,62



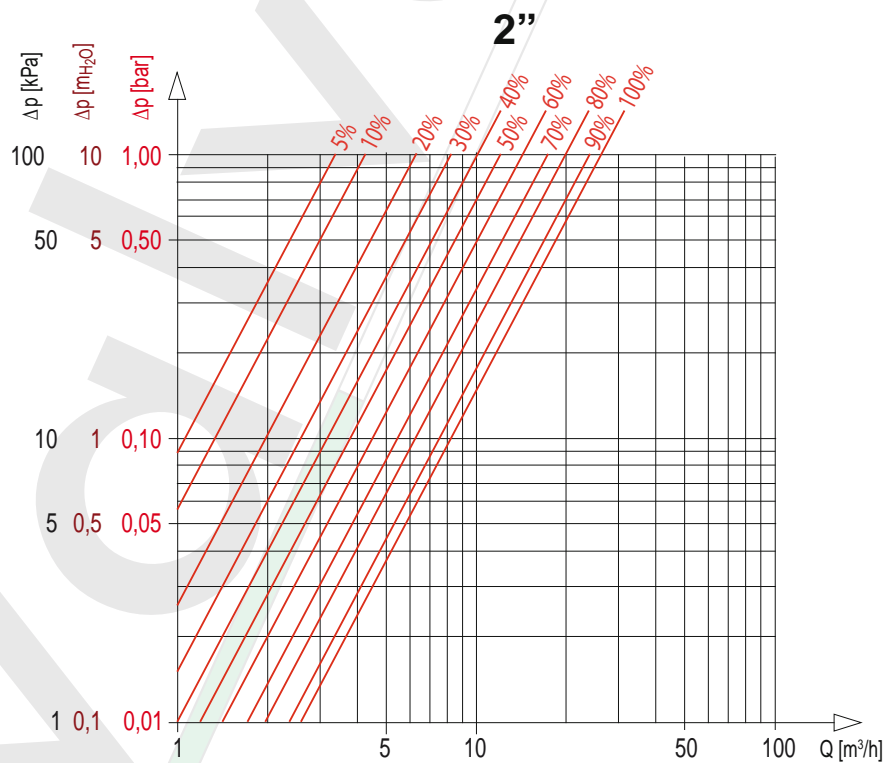
Setting%	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5
Kv	7,00	6,59	6,25	5,95	5,49	5,03	4,86	4,29	3,89	3,32	2,92	2,50	2,14	1,81	1,47	1,37	1,14	0,98	0,83	0,64



Setting%	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5
Kv	9,50	8,89	8,55	7,97	7,60	7,05	6,46	5,86	5,50	4,89	4,39	4,04	3,69	3,25	2,66	2,21	1,79	1,53	1,21	0,73



Setting%	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5
Kv	18,50	17,80	17,35	16,98	16,40	15,84	15,23	14,29	13,19	12,28	11,21	10,13	9,18	8,41	7,56	6,74	5,80	4,67	3,84	3,02



Setting%	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5
Kv	25,50	24,08	23,21	21,64	19,98	18,95	17,64	16,53	14,72	13,33	12,60	11,09	9,98	8,99	8,02	7,26	6,24	5,13	4,18	3,36

Fixed Orifice Double Regulating Valve

Features

Bronze body
 Pressure Rating : PN25
 Pipe Thread to ISO228 / 1
 Comply with BS7350

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 37.5 bar
 Seat : 27.5 bar
 Pressure Rating : PN25

Pressure / Temperature Rating

Working Temperature: t < 170 C
 7 bar at 170 deg C
 25 bar from - 10 to 100 deg C

Specification

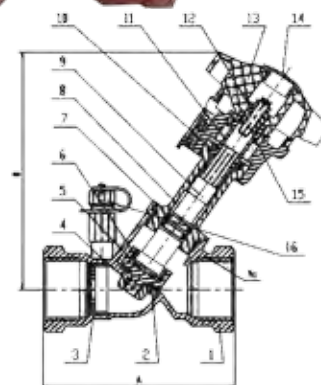
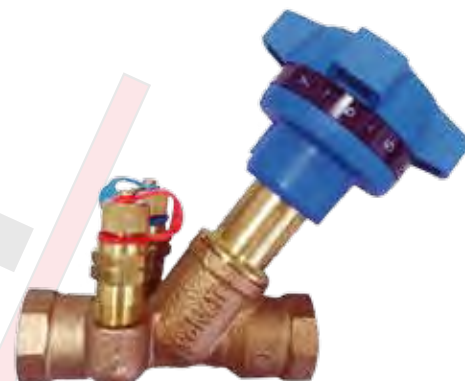
The Fixed Orifice Double Regulating Valve Offers an accuracy of+ 5% on all settings, for precise flow regulation. They are Y - pattern globe valves with characterised throttling disc tending towards equal percent - age performance. Fixed Orifice Double regulating feature allows valve opening to be set with an Allen Key. Operation of the valve is by means of the Microset hand wheel.

Application

In multiple unit systems, it has sufficient authority to give effective regulation over the range of flows covered by matching flow measurement device.

Material Specification

No	Component	Material
1	Body	Bronze CC491K
2	Disc Face	P.T.F.E
3	Disc Face	DZR Brass CW602N
4	Orifice Plate	DZR Brass CW602N
5	Nut	DZR Brass CW602N
6	Disc	DZR Brass CW602N
7	Disc Retaining Ring	DZR Brass CW602N
8	O Ring	N.B.R
9	Bonnet	DZR BRASS CW602N
10	Bonnet	Bronze CC491K
11	Stem	DZR BRASS CW602N
12	Retainer Ring	Stainless Steel 304
13	Sleeve	Brass CW617N
14	Screw	Brass CW614N
15	Handwheel	PA
16	Cap	PA
17	Screw	Stainless Steel 304
18	Test Points	DZR BRASS CW602N



Dimensions & Weights

Dimensions					
DN	INCH	A	B	Flow (KV)	Kvs
15	1/2"	87	105	1.72	2.2
20	3/4"	96	106	2.97	4.6
25	1"	100	127	4.75	8.5
32	1 1/4"	114	128	10.25	16.7
40	1 1/2"	125	143	16.83	26.1
50	2"	146	144	27.26	43.2

Fixed Orifice Double Regulating Valve

Features

Ductile iron body
 PN 16 / PN 25
 Flanged PN16 or PN25 for Single Unit Systems Conforms to BS7350

Specification

Single unit Y - pattern globe valves incorporating an integral orifice plate to form a fixed orifice flow measurement unit with regulation and isolation capacity.
 Valves conform to requirements of BS 7350.

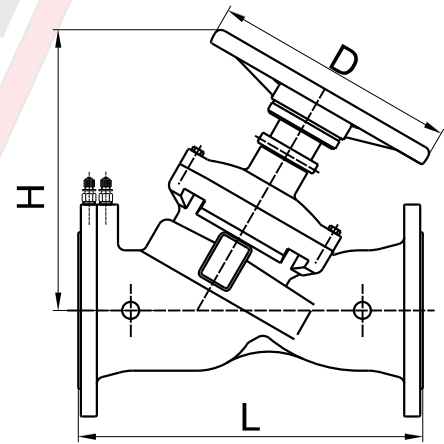
Application

Primarily used in injection or other circuits requiring a double regulating valve for systems balancing. Accuracy of flow measurement is +5% at all open positions of the valve in accordance with BS 7350



Pressure / Temperature Ratings

	PN 16	PN 25
Temperature C	-10 to 120	-10 to 120
Working Pressure(Bar)	16	25
Test Pressure(Bar)	Shell: 24	Shell: 37.5
	Seat: 17.6	Seat: 27.5
Size	14" - 24"	2 1/2 - 12"



Material Specification

No	Component	Material	Optional
1	Body	Ductile Iron	EN - JS 1040
2	Bonnet	Ductile Iron	EN - JS 1040
3	Stem (65 - 300mm)	Stainless Steel 410	BS970 410S21
4	Stem (65 - 600mm)	Stainless Steel 431	BS970 410S21
5	Disc	EPDM Coated DI	EN - JS 1040
6	Gland (65 - 150mm)	Brass	EN 12165 CW617N
7	Gland (200 - 600mm)	Ductile	EN - JS 1040
8	Stem Nut	Brass	EN 12165 CW617N
9	Hand Wheel	Ductile	EN - JS 1040
10	Test Valve	Brass	EN12165 CW602N
11	Orifice Insert	Brass	EN12165 CW617N
12	Packing	Graphite	NON-ASBESTOS

Dimensions & Weights

Size	Inch	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
	mm	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
L		290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
H		265	270	310	340	340	537	570	690	685	965	1020	1065	1180
D		200	200	240	290	290	350	420	420	420	640	640	640	640
Flow Kv		104	112	162	254	335	535	1099	1588	1635	2125	2698	3371	4091
Head los K		5.32	6.48	13.15	8.32	7.33	8.26	7.27	8.36	12.50	13.60	14.40	14.80	15.30
Kvs		104	116	213	333	476	768	1153	1743	1798	2338	2698	3708	4500

valveIT FCU link [Hook up units]

Features

FCU Hookup system consists of set of valves Connectors and unions designed specially for chilled water fan coil units
 DZR brass body material
 Pressure rating PN 25
 Medium: Chilled water / Heating application
 ISO 228 / 1 Pipe Threaded Ends

Application

HVAC system, Cold and Hot water

Hydrostatic Test Pressure

Body: 37.5 Bar
 Seat : 27.5 Bar

Pressure / Temperature Rating

Working temperature ≤ 100 deg C

***On request (Forward Delivery)**

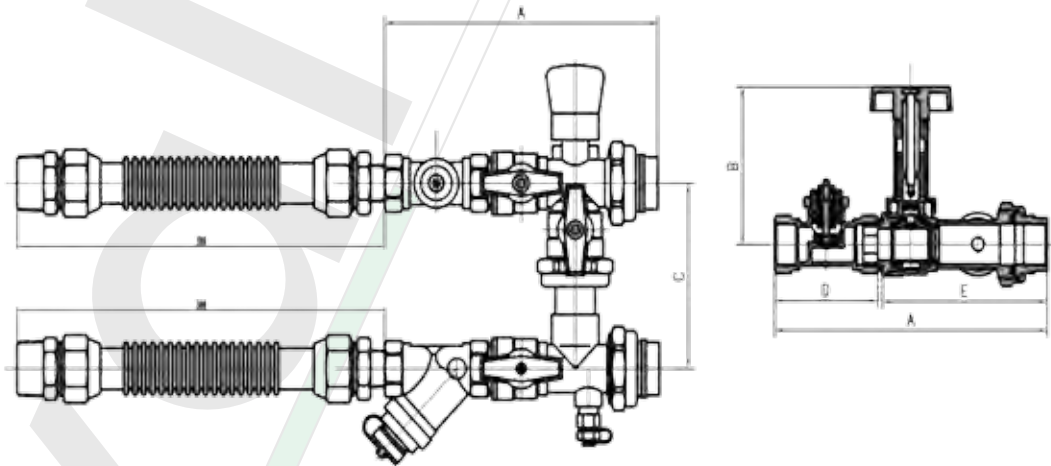
Available with BSPP Threads
 Available in other material grades
 *Subject to minimum order quantity



Material Specification

No	Component	Material
1	Body	DZR Brass - CW 602N
2	Ball	DZR Brass - CW 602N
3	Orifice Plate	DZR Brass - CW 602N
4	Flexibles	Stainless Steel SS 304

valveIT FCU link [Hook up units]



Dimensions & Weights

Nominal Size	Dimensions				
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
1/2	168	65	106	94	100
3/4	185	70	113	96	112
1	210	80	130	97	127
1 1/4	245	90	130	100	137

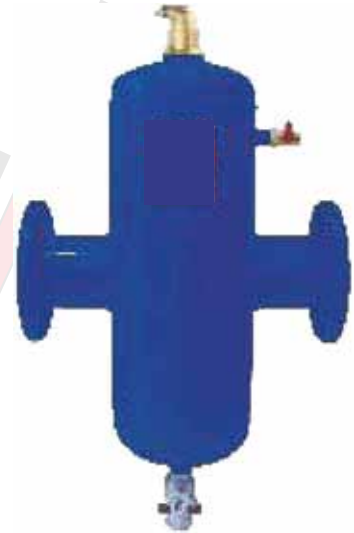
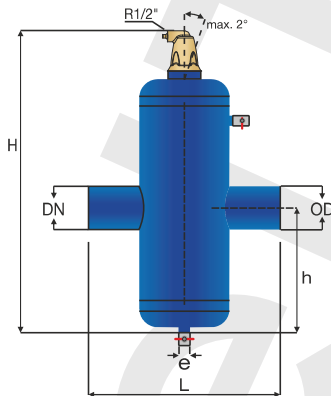
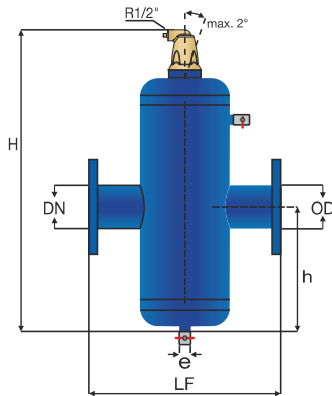
Deaerator and Dirt Separator

Features

Carbon steel body
PN 16 / 25

Applications

Deaerator and Dirt Separators are used in pipelines for the high efficiency removal of both dirt and air, micro bubbles from heating and cooling systems in buildings.

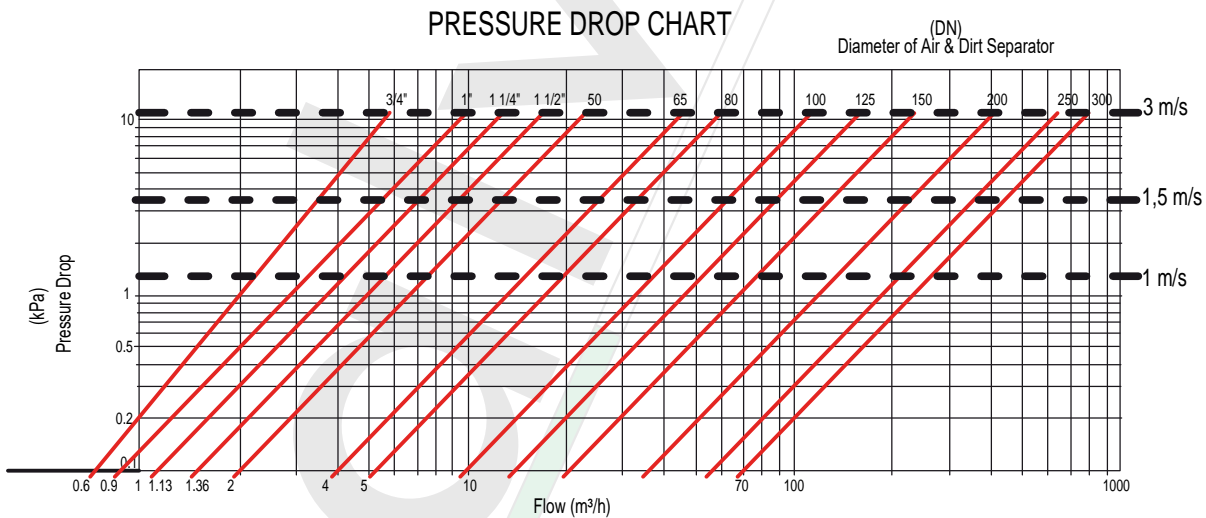


Pressure / Temperature Rating

Max. Working Temperature 110C
Max. Working Pressure 16 bar

Pressure Drop

Resistance graph to flow various diameters of Air and Dirt Separators as below.



Material Specification

No	Component	Material
1	Body	Carbon Steel - ST37
2	Connections	Flanged - Welded End
3	Strainer Screen	Stainless Steel
4	Product Range	ADS - F Flanged ADS - K Welded End ADS - F - T Flanged - Removable ADS - K - T Welded End - Removable

Dimensions & Weights

DN	OD mm	H mm	h mm	e Inch	LF mm	L mm	Flanged Weight Kg	Welded Weight Kg
50	60.3	632	265	1"	350	330	17	13
65	76.1	632	265	1"	350	330	21	13
80	88.9	791	345	1"	470	450	27	22
100	114.3	791	345	1"	475	455	30	23
125	139.7	1064	480	1"	635	615	53	45
150	168.3	1064	480	1"	635	615	81	67
200	219.1	1307	615	1"	775	745	101	85
250	273.0	1568	805	2"	890	860	150	130
300	323.9	1892	1110	2"	1005	975	227	202

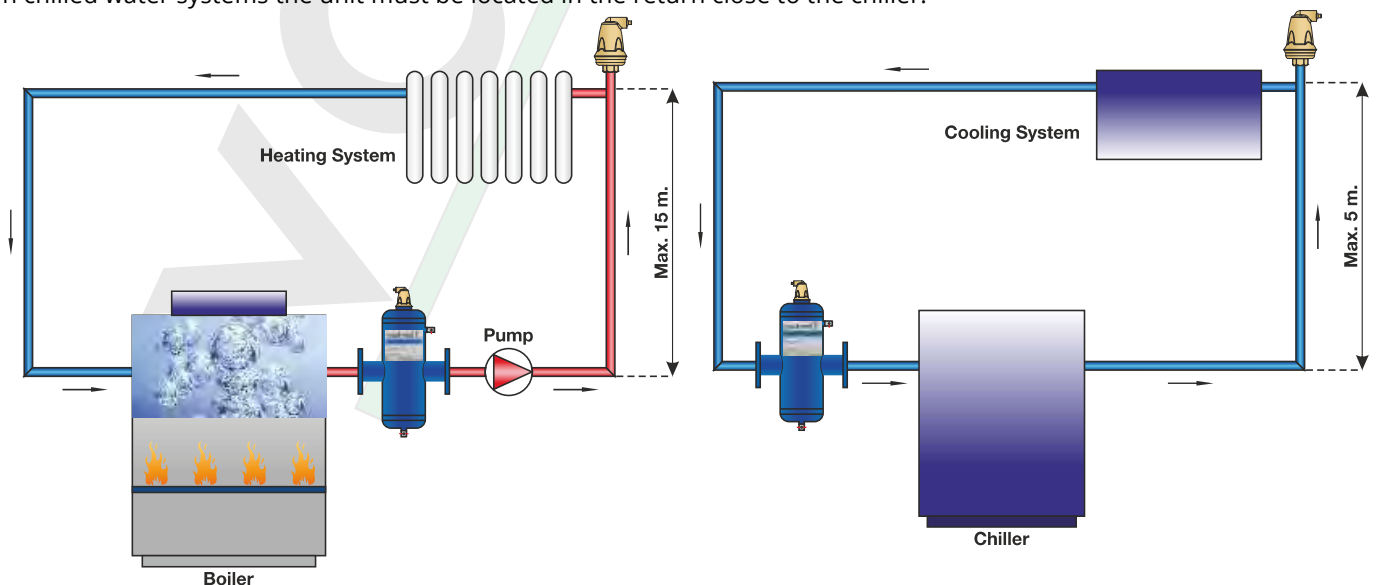
Selection Chart

Connection	Standard ; Normal flow :			Hi-flow :		
	1.5m/s			3m/s		
	DN (mm)	Max flow (l/s)	Max flow (m³/h)	Pressure drop (kPa)	Max flow (l/s)	Max flow (m³/h)
50	3.5	12.5	3	7	25	11.8
65	5.5	20	2.7	11	40	11.6
80	7.5	27	2.9	15	65	12.4
100	13	47	3.7	26	94	14.6
125	20	72	4.2	40	144	16.8
150	30	108	4.9	60	215	19.4
200	50	180	5.8	100	360	23.1
250	80	288	6.9	160	575	27.7
300	113	405	7.7	225	810	31
350	140	500	7.8	280	1000	31
400	180	650	8.4	360	1300	34
450	235	850	10	470	1700	39
500	295	1060	11	590	2120	43
600	425	1530	12	835	3000	47

Installations

TYPE: ADS

ADS is a combination of deaerator and dirt separator which removes circulating air and micro bubbles also dirt effectively. In heating systems the ADS should be in the flow and installed after the boiler and on the pump suction side. In chilled water systems the unit must be located in the return close to the chiller.



valveIT Anti - shock Combination Air Valve

The valveIT surge alleviation, non - slam combination automatic air valve will ensure the proper operation of the pipeline network allowing the release of air pockets during working conditions, the entrance of large volumes of air during draining operations and pipeline bursts and the air discharge with controlled speed, to prevent water hammer.

Application

- Main Stream Line
- Water distribution networks.
- Irrigation systems.
- In general, this model is used on changes in slope and at the high points of the pipeline.

Product Features

- Body and cover in ductile cast iron GJS 450-10.
- Air release system in stainless steel.
- Floats in solid PP.
- Seat in stainless steel.

Connections

- Flanges size from DN 50 to DN 400 mm.
- Flanges standard EN 1092/2, ANSI 150, AS; different on request.
- Threaded 2" BSP F; NPT on request.

Working conditions

- Pressure range: 10 - 16 - 25 - 40 bar.
- Minimum working pressure: 0.2 bar.
- Treated water maximum 60°C, higher temperature on request.

Nozzle Choice

Nozzle diameter in mm according to the size of the air valve and the PN

No	PN 10	PN 16	PN 25	PN 40
2", DN 65	1.2	1.2	1	0.8
DN 80	1.8	1.5	1.2	0.8
DN 100	1.8	1.5	1.2	1
DN 150	2.4	1.8	1.8	1.2
DN 200	4	3	2.4	1.8
DN 250	4	4	3	2.4
DN 300	4	4	4	4
DN 350	4	4	4	4
DN 400	4	4	4	4

No	Component	Material	Optional
1	Body	Ductile cast iron GJS 500 - 7 or GJS 450 - 10	EPDM / Viton / Silicone
2	Cap	Ductile cast iron GJS 500 - 7 or GJS 450 - 10	EPDM / Viton / Silicone
3	O-ring	NBR	Stainless steel AISI 316
4	O-ring	NBR	
5	Seat	Stainless steel AISI 304	
6	Nozzle Subset	Stainless steel AISI 316	
7	Upper	Polypropylene	Stainless steel AISI 316
8	Flat	Polypropylene	Stainless steel AISI 316
9	Studs	Stainless steel AISI 304	Stainless steel AISI 316
10	Nuts	Stainless steel AISI 304	Stainless steel AISI 316
11	Spacers	Stainless steel AISI 304	Stainless steel AISI 316
12	Nuts	Stainless steel AISI 304	Stainless steel AISI 316
13	Washers	Stainless steel AISI 304	Stainless steel AISI 316
14	Deflector	Stainless steel AISI 304	Stainless steel AISI 316
15	Screws	Stainless steel AISI 304	
16	Drain Valve	Stainless steel AISI 303	Stainless steel AISI 316
17	Screen	Stainless steel AISI 304	
18	Spring guide nut (from Dn 150)	Stainless steel AISI 303	Stainless steel AISI 316
19	Spring	Stainless steel AISI 302	Stainless steel AISI 316
20	AS shaft	Stainless steel AISI 303	
21	AS flat	Stainless steel AISI 304	
22	Tag	Stainless steel AISI 304	



valveIT Silent Type Check Valve

Features

PN 10/PN16/PN 25/PN 40
 Body: Ductile Iron
 Seat: Stainless Steel/ Bronze
 Seat Ring: EPDM/NBR
 Bushing: Bronze
 Spring: Stainless Steel

Application

HVAC System, Cold and Hot Water

Hydrostatic Test Pressure

Body : 24 bar
 Seat : 17.6 bar

Pressure / Temperature Rating

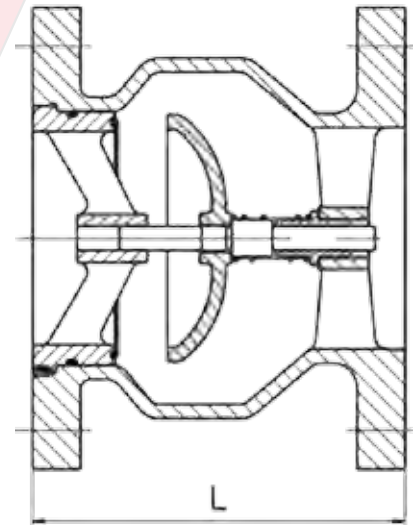
10 bar at 180 deg C
 16 bar from - 10 to 120 deg C

Coating

Internal and External coated with wet
 Epoxy paint RAL 5002 (Blue)
 Coating Thickness (DFT) - 200 Microns

Working Temperature

EPDM: -20 deg C to 110 deg C
 NBR: -10 deg C to 80 deg C



Dimensions & Weights

DN(mm)	50	65	80	100	125	150	200	250	300
L	133	140	152	185	216	229	257	393	362

DN(mm)	350	400	450	500	600
L	400	448	476	524	610

valveIT Downstream Pressure Reducing Stabilizing Automatic Control Valve

The valveIT XLC is a globe pattern hydraulically operated automatic control valve that reduces and stabilizes the downstream pressure to a constant value, regardless of variation in demands and upstream pressure conditions. Normally equipped with visual position indicator and entirely made in ductile cast iron with FBT coating and stainless steel, the valve is designed to reduce head loss, throttling noise and cavitation damage. The valveIT pressure reducing stabilizing valve XLC is extremely versatile and can be used for a wide range of applications.

Product features

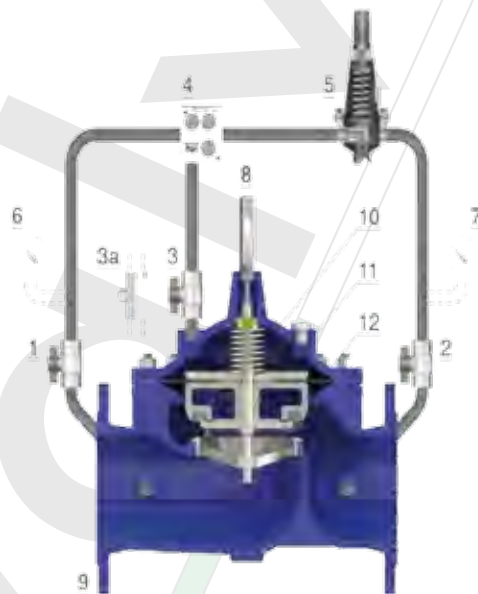
- Body and cover in ductile cast iron GJS 450 - 10.
- Internals in ductile cast iron GJS 450 - 10 and stainless steel.
- Position indicator in stainless steel.
- Circuitry in stainless steel.
- Unit flow regulator device, needle valves and flow stabilizers in stainless steel.
- Seat in stainless steel.
- Painting with fluidized bed technology with WRAS approved paint.

Application

- Downstream of pumps to reduce the pressure on the main supply line.
- In derivation from the main line to stabilize the pressure of secondary line and water users.
- As a protection against rise in pressure of industrial equipment and civil installations.
- On the inlet supply line of storage tanks to stabilize pressure and flow required for the level control.

Working Conditions

- Fluid: treated water.
- Minimum operating pressure: 0,7 bar.
- Maximum operating pressure: 25 bar.
- Maximum temperature: 70°C.
- Downstream pressure pilot adjustment range
- Blue spring: 0,7 to 8 bar.
- Red spring: 1,5 to 15 bar.
- Higher values up to 25 bar on request.
- Values lower than 0,7 available with high sensitivity pilots.



Operating principle

The direction of flow of the picture is always intended from left to right. The valveIT XLC is an automatic control valve operated by a 2 ways pilot (5) with pre-set set and adjustable value. Should the downstream pressure rise above the pilot set point the latter will throttle and limit the flow to direct inlet pressure to the main chamber (10), thus pushing down the obturator (11) to generate the head loss required for the valve (9) to reduce and stabilize the downstream pressure to a constant value. Should the downstream pressure fall below the pilot set point the obturator (11) will raise increasing the passage through the seat (12) thus reducing the head loss followed by the rise in pressure. The flow in and out of the main chamber (10) is controlled by the valveIT unit regulation device with filter GR.I.F.O. (4) and provided with three needle valves and flow stabilizers, needed for the valve's response time and accuracy also in case of rapid variation in demand. Thanks to isolation ball valves (1-2-3) the circuit and its components can be maintained without interrupting the flow.

valveIT Upstream Pressure sustaining valve

The valveIT upstream pressure sustaining valve is a globe pattern hydraulically operated automatic control valve that, installed in-line, will sustain the upstream pressure to a pre-set and adjustable value regardless of variations in demand. Normally equipped with visual position indicator and entirely made in ductile cast iron with FBT epoxy coating and stainless steel, the valve is designed to reduce head loss, throttling noise and cavitation damage. This model is extremely versatile and can be used for a wide range of applications in combination with several accessories and additional functions.

Features

- Body and cover in ductile iron GJS 450 - 10.
- Internals in ductile cast iron GJS 450 - 10 and stainless steel.
- Position indicator in stainless steel.
- Circuitry in stainless steel.
- Unit flow regulator device, needle valves and flow stabilizers in stainless steel.
- Seat in stainless steel.
- Painting with fluidized bed technology.

Size: DN 50 – DN 400

Application

Downstream of pumps to prevent overload and for cavitation protection.

On the inlet supply line of storage tanks to stabilize pressure and flow required for the level control.

On gravity fed supply lines to ensure the minimum pressure to consumers located at higher elevation zones, in case of high consumption of the lower zones.

Working conditions:

Minimum operating pressure: 0,7 bar

Maximum operating pressure: 25 bar.

Maximum temperature: 70°C.

Pressure relief pilot adjustment range

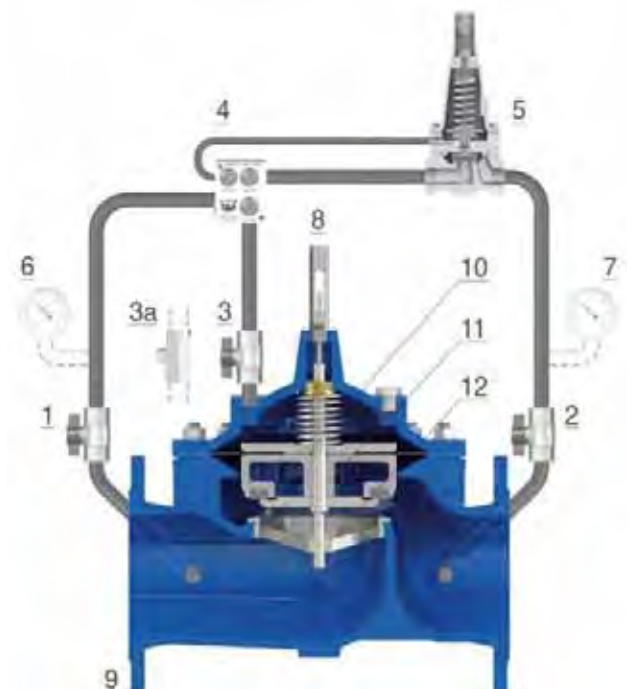
Blue spring: 0.7 to 8 bar

Red spring: 1.5 to 15 bar

Higher values upto 25bar on request.

Operating principle

This model is an automatic control valve operated by high sensitivity two ways pilot (5), with pre-set and adjustable set point value, sensing the upstream pressure from the GR.I.F.O. (4). Should the line pressure rise above the pilot's set point the latter will open thus relieving the chamber (10) and moving the obturator (11) upwards, to discharge water and pressure through the main valve (9) downstream protecting the system. Should the upstream pressure be lower than the pilot's set point the latter will throttle (close eventually) diverting all pressure towards the main chamber (10) thus pushing the obturator (11) onto the seat (12), interrupting the flow rate.



valveIT Fast Acting Pressure relief valve

The valveIT fast acting, surge prevention, pressure relief valve Mod. VRCA has been designed to avoid the devastating effects of water hammers in pipeline networks. The purpose is actually to prevent pressure from rising above a pre-set value.

Features

- Body and cover in ductile cast iron GJS 450-10
- Internals in stainless steel
- Design and testing according to EN 1074
- Pressure Rating: PN 16 / PN 25
- Flanges standard EN 1092 / 2, different on request.

Application

- Downstream of pumping stations to cushion sudden overpressure as a result of pump start up and power failure (in case of one of more pumps in parallel).
- Downstream and up stream of main transmission lines, or pipe segments, not able to endure critical conditions such as sudden and unexpected rise in pressure, and to guarantee reliable system protection.
- Downstream of a pressure reducing valve as a safety device.
- Upstream of modulating and sectioning devices with rapid response time, likely to generate unwanted surges.
- In general, whenever and wherever pipe bursts are expected.

Operating Principle

- The valve must be pre-set at first, simply acting on the spring, to open whenever the pressure rises above a certain value considered critical for the system.
- The particular shape and construction, along with the perfect centering of the mobile block, will protect the upper part against water spurts coming from VRCA operation cycles.
- The valve is supplied with a pressure gauge and drainage ball valve, in order to facilitate the pressure measurement and setting procedure directly on the field.

Valve closed condition

Should the pressure remain below the valve's set point the VRCA will be perfectly closed, due to the compression of the spring pushing the obturator down to the seat.

Valve open condition

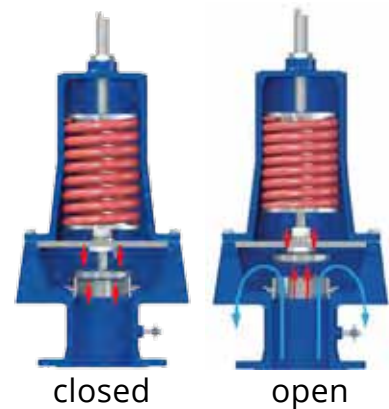
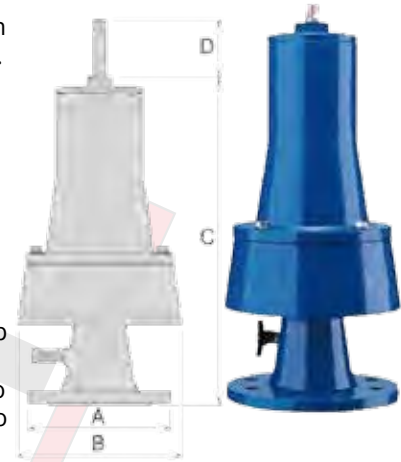
Should the pressure rise above the valve's set point the obturator will be lifted, discharging to the atmosphere the excessive fluid volume necessary to avoid the upsurge.

Material Specification

No	Component	Material	Optional
1	Body	ductile cast iron GJS 500 - 7 or GJS 450 - 10	
2	Cap	duct. cast iron GJS 500 - 7 or 450 - 10 and painted	
3	Driving screw	stainless steel AISI 304	stainless steel AISI
4	Nut	stainless steel AISI 304	stainless steel AISI
5	Spring support	stainless steel AISI 303 (304 for DN 150 - 200)	stainless steel AISI
6	Spring	spring painted steel 52SiCrNi5	
7	Spring housing	stainless steel AISI 303 (304 for DN 150 - 200)	stainless steel AISI
8	Ring	stainless steel AISI 304	stainless steel AISI
9	Separation	s.s. AISI 304 (painted steel for DN 150 - 200)	stainless steel AISI
10	Driving sleeve	Delrin (s. s. AISI 304 for DN 150 - 200)	
11	Shaft	stainless steel AISI 304	stainless steel AISI
12	Obturator	stainless steel AISI 303 (304 for DN 150 - 200)	stainless steel AISI
13	Sealing seat	stainless steel AISI 304 (303 for DN 50 / 65)	stainless steel AISI
14	O-ring	NBR	EPDM/Viton
15	Screws	stainless steel AISI 304	stainless steel AISI
16	Screws	stainless steel AISI 304	stainless steel AISI
17	Washers	stainless steel AISI 304	stainless steel AISI
18	Ball valve 1/4"	nickel-plated brass	stainless steel AISI

Dimensions & Weights

DN mm	A mm	B mm	C mm	D mm	Seat DN mm	Weight Kg
50/65	185	185	417	40	40	14
80/100	235	242	540	50	62	28
150	300	404	720	220	137	75
200	360	404	720	220	137	79



valveIT Cast Iron Pressure Reducing valve

The valveIT direct acting pressure reducing valve Fig. VIT - 16 - PRVVRCD reduces and stabilizes the downstream pressure to a constant value, regardless of flow rate and upstream pressure variations. It can be used for water, air and fluids in general.

Features

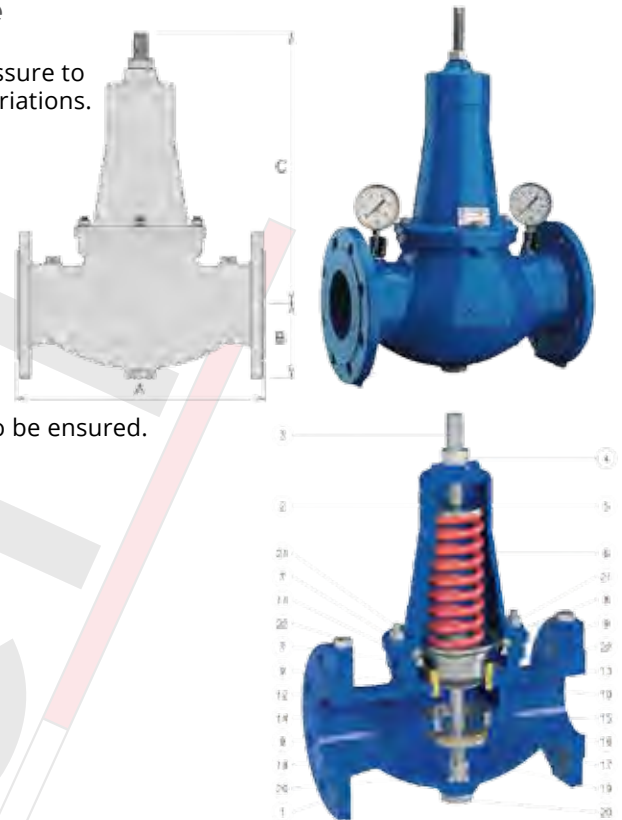
type, PN 16
 Flanges according to EN 1092/2
 Design, certification and testing according to EN 1074.

Application

Water distribution systems.
 Buildings and civil installations.
 Irrigations.
 Cooling systems in general whenever the pressure reduction has to be ensured.

Pressure / Temperature Rating

Pressure range: 10 - 16 bar.
 Downstream pressure range: 1.5 - 5 bar
 Treated water maximum 60°C.
 Different values on request
 Size: DN 50 - DN 150
 Note:
 VIT - 16 - VRCDM is with Diaphragm
 VIR-16-VRCSDT for High Temp.



Material Specification

No	Component	Material	Optional
1	Body	ductile cast iron GJS 500 - 7 or GJS 450 - 10	
2	Cap	ductile cast iron GJS 500 - 7 or GJS 450 - 10	
3	Driving screw	stainless steel AISI 304	Stainless steel AISI 316
4	Nut	stainless steel AISI 304	Stainless steel AISI 316
5	Spring guide	stainless steel AISI 303	Stainless steel AISI 316
6	Spring	spring painted steel 52SiCrNi5	
7	Upper and lower compression rings	stainless steel AISI 304	Stainless steel AISI 316
8	Upper flat	Painted steel	Stainless steel AISI 304/316
9	O rings	NBR	EPDM/Viton
10	Gasket	NBR	EPDM/Viton
11	Diaphragm	Polyamide-Nylon	Neoprene/EPDM-Nylon
12	Lower ring	bronze CuSn5Zn5Pb5	Stainless steel AISI 304/316
13	Piston	stainless steel AISI 303	Stainless steel AISI 316
14	Spacer	stainless steel AISI 303	Stainless steel AISI 316
15	Obturator sealing seat	stainless steel AISI 304	Stainless steel AISI 316
16	Gasket support	stainless steel AISI 303	Stainless steel AISI 316
17	Plane gasket	NBR	
18	Gasket holder	stainless steel AISI 303	Stainless steel AISI 316
19	Guiding shaft	stainless steel AISI 303	Stainless steel AISI 316
20	Driving tap	stainless steel AISI 303	Stainless steel AISI 316
21	Studs, nuts and washers	stainless steel AISI 304	Stainless steel AISI 316
22	Taps for pressure gauges	stainless steel AISI 316	

Dimensions & Weights

DN (mm)	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150
A (mm)	230	290	310	350	400	450
B (mm)	83	93	100	110	135	150
C (mm)	280	320	350	420	590	690
Weight (Kg)	12	19	24	34	56	74

valveIT Dismantling Joint

Features

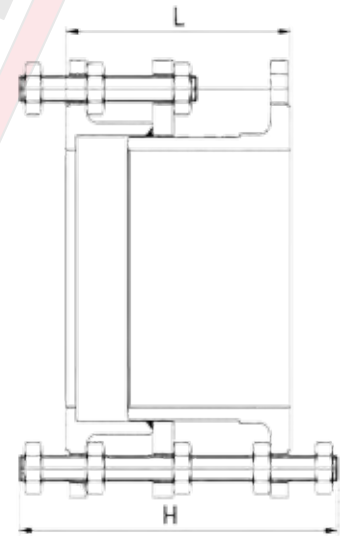
PN 10 / PN16 / PN25 / PN40
 Body: Ductile Iron / Carbon steel - ST 37
 Sealing: EPDM/NBR
 Fasteners: Galvanized steel (8:8) / SS 304 / SS316

Application

Easy installation and removal of valves from the system during maintenance. By using the bolts on the product, the user can create a work space in the longitudinal direction and can work easily on the valve that is connected after the dismantling joint.

Pressure / Temperature Rating

16 bar at 120 deg C
 With EPDM liner the maximum allowable short term temperature is 120 deg C
 -10 to 80 deg C NBR Seat



Dimensions & Weights

DN	H				L				Weight (Kg)			
	PN 10	PN 16	PN 25	PN 40	PN 10	PN 16	PN 25	PN 40	PN 10	PN 16	PN 25	PN 40
80	270	270	270	270	150	150	150	150	15	15	15	15
100	310	310	290	290	200	200	200	200	17	17	17	17
125	310	310	290	290	200	200	200	200	20	20	20	20
150	320	320	300	300	200	200	200	200	27	27	27	27
200	340	340	340	340	220	220	220	220	39	39	39	39
250	360	360	370	370	220	220	220	220	50	50	50	50
300	360	360	410	410	220	220	220	220	61	61	61	61
350	360	360	410	410	230	230	230	230	86	86	86	86
400	370	370	430	430	230	230	230	230	104	104	104	104
450	390	390	430	430	250	250	250	250	124	124	124	124
500	400	400	440	440	260	260	260	260	139	139	139	139
600	410	410	480	480	260	260	260	260	190	190	190	190
700	410	410	480	480	260	260	260	260	263	263	263	263
800	460	460	520	520	290	290	290	290	400	400	400	400
900	460	460	520	520	290	290	290	290	450	450	450	450
1000	480	480	560	560	290	290	290	290	650	650	650	-
1100	480	560	-	-	300	340	-	-	830	830	-	-
1200	520	600	720	720	320	360	450	450	895	1070	1870	-
1300	830	630	-	-	370	370	-	-	1172	1172	-	-
1400	560	630	-	-	360	380	-	-	1194	1270	-	-
1500	580	610	-	-	380	390	-	-	1560	1560	-	-
1600	600	700	-	-	390	400	-	-	1436	1705	-	-
1800	750	-	-	-	450	-	-	-	1880	-	-	-
2000	750	-	-	-	450	-	-	-	2206	-	-	-
2200	750	-	-	-	450	-	-	-	2800	-	-	-
2400	750	-	-	-	450	-	-	-	3400	-	-	-
2500	750	-	-	-	450	-	-	-	3520	-	-	-

valveITFLEX Expansion Joint Twin Sphere, Threaded Ends

Features

PN 16
 Rubber Expansion Joint
 Reinforced EPDM Rubber
 Threaded end connections to
 BS 21 (with Unions)

Hydrostatic Test Pressure

Body : 24 bar

Burst Pressure

50 bar at 20 deg C

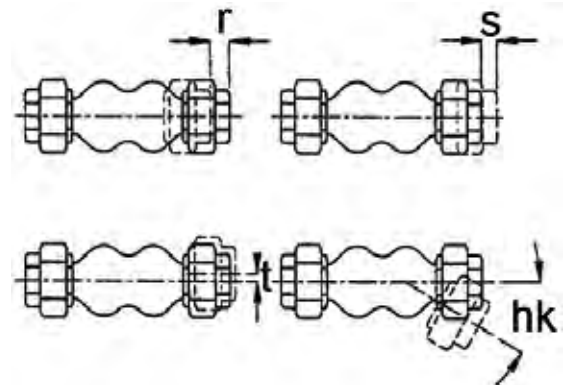
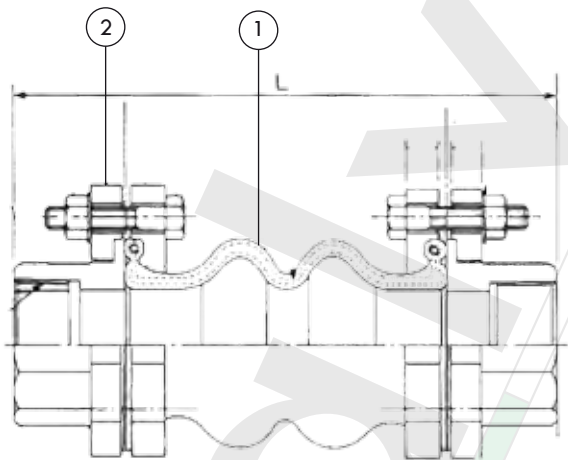
Pressure / Temperature Rating

10 bar at 60 deg C
 6 bar at 80 deg C
 3 bar at 90 deg C
 Maximum allowable short term temperature : 100 deg C
 Maximum Vacuum Rating : 400 mm Hg

On Request (Forward Delivery)

valveITFLEX Expansion Joints can also be supplied with NPT Threads
 *Available in PN 10
 Available in other material grade

*Subject to minimum order quantity



Material Specification

No	Component	Material
1	Bellows	Reinforced EPDM Rubber
2	Coupling / Threaded Joints	DI / Steel Electro Galvanized

Dimensions & Weights

Size		Allowable Movements			
		Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
D (Inch)	L (mm)	r (mm)	s (mm)	t (mm)	hk (deg)
1/2	180	15	5	15	20
3/4	180	15	5	15	20
1	180	15	6	15	20
1 1/4	245	20	6	20	30
1 1/2	245	20	6	20	30
2	255	20	6	20	30

valveIT FLEX Expansion Joint Single Sphere, Floating Flanges

Features

- PN 16
- Rubber Expansion Joint
- EPDM Rubber
- Flanged end connections
- Floating Flanges

Hydrostatic Test Pressure

Body : 24 bar

Burst Pressure

DN 50 - 300 : 48 bar at 20 deg C

Pressure / Temperature Rating

- 16 bar at 40 deg C
- 12 bar at 60 deg C
- 8 bar at 80 deg C
- 3 bar at 90 deg C
- Maximum allowable short term temperature : 100 deg C
- Maximum Vacuum Rating : 750 mm Hg

***On Request (Forward Delivery)**

- valveITFLEX Expansion Joints can be supplied with ANSI CL 150 Flanges
- Available with Tie rods
- Available in higher sizes
- Available with twin sphere
- *Subject to minimum order quantity

Important Note on the use of Control Rods / Tie Rods

The Control Rod / Tie Rod are recommended when the maximum pressure exceeds the limit shown in the Pressure Ratings Table below OR the movement exceeds the rated movement as shown in the 'Maximum Allowable Movement' table below. The Control Rod / Tie Rod is used to prevent an excessive extension or compression which could damage the expansion joint.

Rating Table for the use of Control Rods / Tie Rods

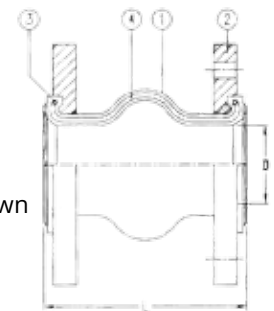
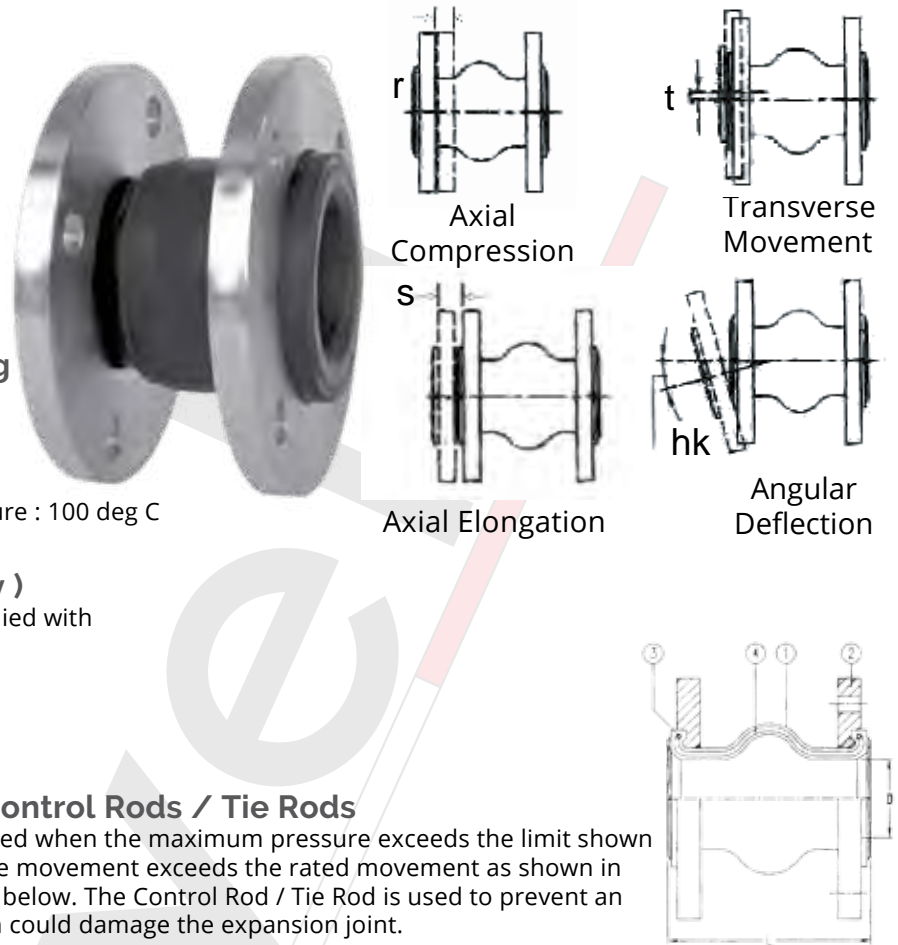
No	Size	Pressure
1	1 - 4"	150 PSI
2	5 - 10"	135 PSI
3	12 - 14"	90 PSI

Material Specification

No	Component	Material
1	Bellows	Reinforced EPDM Rubber
2	Flanges	Steel Electro Galvanized/DI
3	Bead Wire	Carbon Steel
4	Carcass	Nylon

Dimensions, Weights and Maximum Allowable Movement

Size	Dimensions		Allowable Movements			
			Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
DM (mm)	D (mm)	L (mm)	r (mm)	s (mm)	t (mm)	hk (deg)
50	50	105	10	7	10	10
65	65	115	12	7	12	10
80	76	130	12	7	12	10
100	100	135	15	10	15	7
125	125	170	15	10	15	7
150	150	180	18	12	15	5
200	200	205	18	12	18	5
250	250	230	20	15	20	5
300	300	245	20	15	20	5



valveIT Pressure Reducing Valve

Features

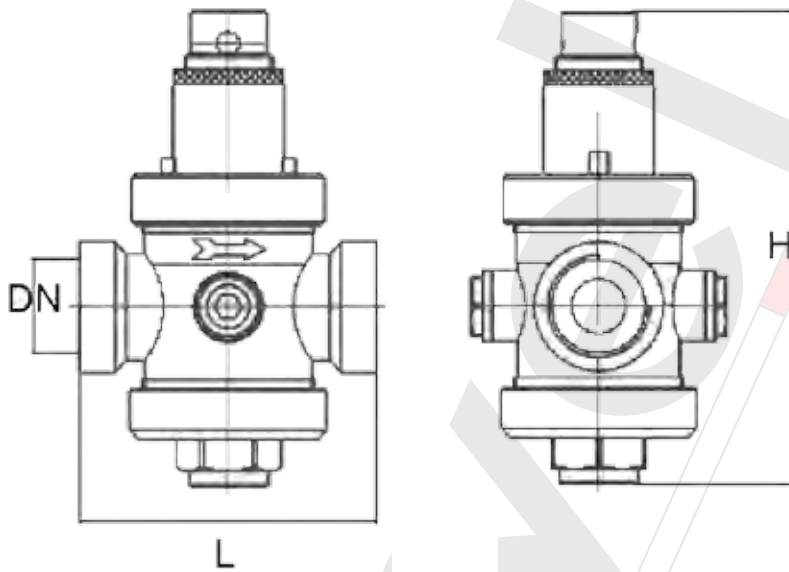
Piston type, PN25, Nickel - Plated
 Threading according to ISO 228 / 1
 Gauge connection threads according to EN10226-Rp1/4"

Application

HVAC System, Cold and Hot Water

Pressure / Temperature Rating

Maximum inlet Pressure : 25 bar
 Downstream Pressure range : 1 - 6 bar
 Maximum Temperature : 100 deg C



Material Specification

No	Component	Material	Spec
01	Body	Forged Brass (1/2" - 2") Cast Brass (2"1/2 - 4")	EN12165-CW617N EN 1982 - CC753S
02	Piston	Polyamide (Nylon 66)	Reinforced with glass fiber
03	Seat	Stainless Steel	EN10088-1.4305
04	Spring	Galvanized Steel	EN10270-1

Dimensions

Nominal Size DN (Inches)	Dimensions		Weight Kg
	L (mm)	H (mm)	
1/2	69	114	0.54
3/4	82	114	0.609
1	96	145.5	1.035
1 1/4 "	100	151.5	1.265
*1 1/2 "	121/91	218/148	*Two versions 1.340
*2 "	121/97	218/150	*Two versions 1.450
2"1/2	131	230	
*3"	197/133	312/224.5	*Two versions
4"	197	312	

*Available in Light/Heavy model

valveIT Stainless Steel Expansion Joint with Floating Flanges

Application

HVAC system, Cold and Hot water

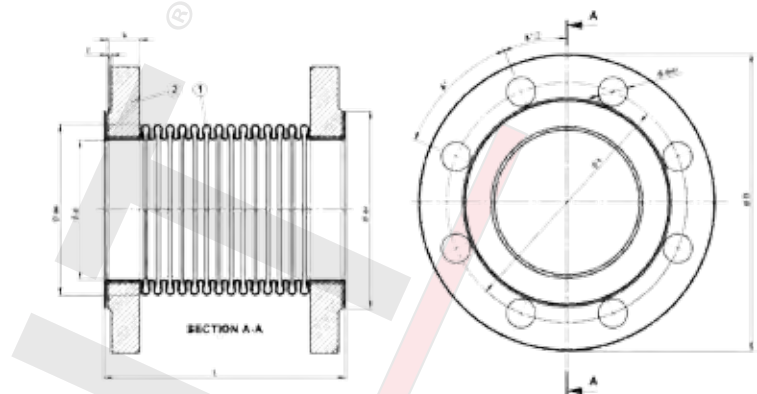
Material

Bellow: Stainless steel (AISI 321)

Flange: Carbon Steel / Stainless steel (AISI 304)

Pressure rating: PN 16

Size: DN 65- 600



Dimensions & Weights

Size (mm)	Axial movement	φD	φk	Φd ₄	b	f	φdxn	φdi	φdo	Wall thickness	Number of Convolutions	L
DN 25	+ 10/-20mm	115	85	68	16	2	Φ14X4	38	48.2	0.30mm	20	110
DN 32	+ 10/-20mm	140	100	78	16	2	Φ18X4	42.4	55	0.30mm	20	115
DN 40	+ 10/-20mm	150	110	88	16	3	Φ18X4	48.3	61	0.30mm	20	120
DN 50	+ 10/-20mm	165	125	102	18	3	Φ18X4	60.3	76	0.40mm	16	110
DN 65	+ 10/-20mm	185	145	122	20	3	Φ18X4	76.1	95	0.40mm	14	110
DN 80	+ 10/-20mm	200	160	138	20	3	Φ18X8	88.9	111	0.40mm	10	110
DN 100	+ 10/-20mm	220	180	158	22	3	Φ18X8	114.3	140	0.50mm	10	115
DN 125	+ 10/-20mm	250	210	188	22	3	Φ18X8	139.7	164	0.50mm	10	130
DN 150	+ 10/-20mm	285	240	212	24	3	Φ23X8	168.3	200	0.6mm	10	145
DN 200	+ 10/-20mm	340	295	268	26	3	Φ23X12	219.1	250	0.6mm	8	140
DN 250	+ 10/-20mm	405	355	320	29	3	Φ27X12	273	323	0.8mm	6	150
DN 300	+ 10/-20mm	460	410	378	32	4	Φ27X12	323.9	380	0.8mm	6	150
DN 350	+ 10/-20mm	555	490	450	38	3	Φ33X16	355	412	1.0mm	6	210
DN 400	+ 10/-20mm	620	550	505	40	4	Φ36X20	406	466	1.0mm	6	215
DN 450	+ 10/-20mm	675	605	560	42	4	Φ36X20	457	516	1.0mm	6	220
DN 500	+ 10/-20mm	730	660	515	44	4	Φ36X20	508	570	1.0mm	6	240
DN 600	+ 10/-20mm	845	770	720	46	5	Φ39X20	610	670	1.0mm	6	245

*Note: valveIT reserve the rights to change the dimensions without prior notice. The above dimensions are for general indicative purpose only. Please contact local valveIT agent for exact dimensional confirmation.

valveIT Stainless steel Flexible Hose with Threaded Coupling

Features

PN 16

BSPP / BSPT Threads

Available with male / female End connection

Size: 1/2" - 2"

Length: 200mm / 300mm



Material Specification

No	Component	Material
1	End Connection	Brass / Steel
2	Bellow	Steel
3	Mesh	Steel

*Note: Insulated Flexible hose available upon request.

valveIT Air Relief Valve / Air Vent

Features

Brass body, PN10
Removable Lid
Float and Lever in Polyethylene
with Check Valve

Application

HVAC System, Cold and Hot Water

Maximum Working Pressure

10 bar

Maximum Working Temperature

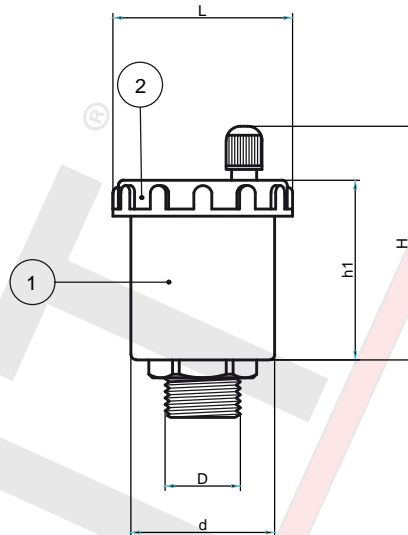
100 deg C

Connections

Threaded to ISO 228 / 1

Material Specification

No	Component	Material
1	Body	Brass: CW 617 UNI- EN 12165
2	Cap	Brass: CW 617 UNI - EN 12165
3	Inner floating components	Polyethylene
4	Finishing	Brass sandblasted



Dimensions & Weights

Nominal size	Dimensions				Weight	PN at max 100°C
	D [inches]	L [mm]	H [mm]	h1 [mm]		
1/2"	50	87	72	42	225,00	10
3/4"	50	87	72	42	225,00	10

Water Hammer Arrestor

valveIT Water Hammer Arrestor

valveIT Water Hammer Arrestor is designed in order to attenuate the "water hammer" phenomenon which is created in a closed conduct when there is a abrupt variation of the fluid speed.

Features

Pressure

Static working pressure: 3 bar
Maximum working pressure (PN): 10 bar
Maximum water hammer: 50 bar

Temperature

Maximum working temperature: 90°C
Compatible fluids: water

Threading:

According to ISO 228 / 1

Requirements and tests as per

Shell tightness test P11 - EN 12266 - 1

Size: DN 15

Material Specification

No	Component	Material
1	Body	Brass EN 12165 - CW617N chrome plated
2	Electro deposited coating	EN12540 (Cu / Ni5sCrr)
3	Damper	Brass EN12165 - CW602N (DZR)
4	Gaskets	EPDM



valveIT Brass Bib Cock

Features

PN 10
 Ball Type
 Threaded Ends to ISO 228 / 1

Hydrostatic Test Pressure

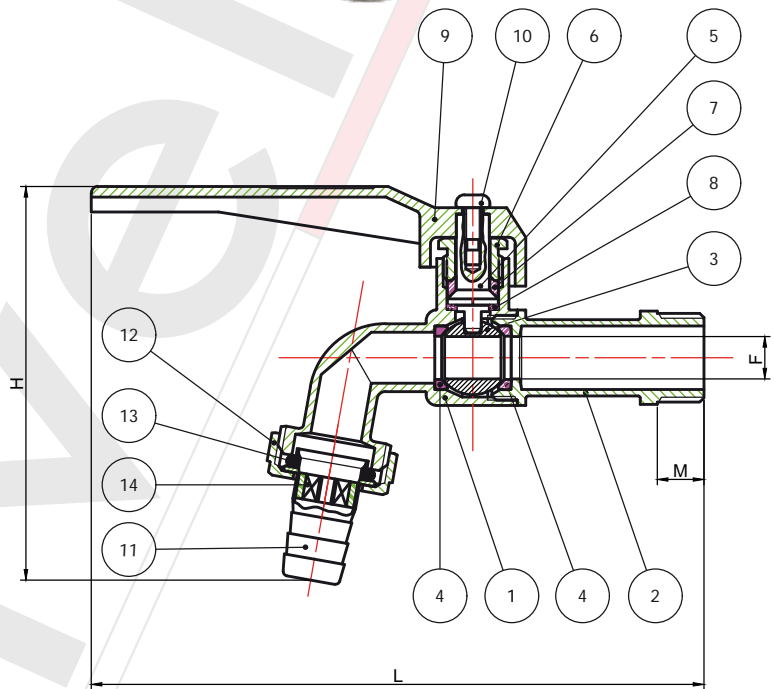
Body : 15 bar
 Seat : 11 bar

Pressure

Nominal : 10 bar

Temperature

Minimum : -10 deg C
 Maximum : 100 deg C



Material Specification

No	Component	Material
1	Body	Brass: CW 617 N - UNI - EN 12165
2	Ball, stemad gland	Brass: CW 614 N - UNI - EN 12164
3	Seat	Pure P.T.F.E.
4	Stem packing and antifriction ring	Pure P.T.F.E.
5	Operating lever	Aluminium with red plastic coating finishing
6	Finishing	Sandblasted chromed

Dimensions

Nominal size	Dimensions				Weight	PN at max 100°C
	D [inches]	L [mm]	H [mm]	M [mm]		
1/2"	145	92	11	10	196,00	10
3/4"	154	103	14	12	306,00	10
1"	170	118	15	14		10

valveIT Pressure Gauge, Bourdon Tube Type

Features

Steel Case

Application

HVAC installation, Industrial application with gases and liquids that do not attack brass measuring system.

Case Size

100 mm

Connections

BSPP 1/2" Male Threads

Pressure Range

0-10 bar

0-16 bar

0-25 bar

Operating Temperature

-20 to 60 deg C

Degree of Accuracy

Minimum 1% of the total range

According to DIN Class 1.0 (DIN 16005)

Measuring Element

<60 bar - Copper Alloy

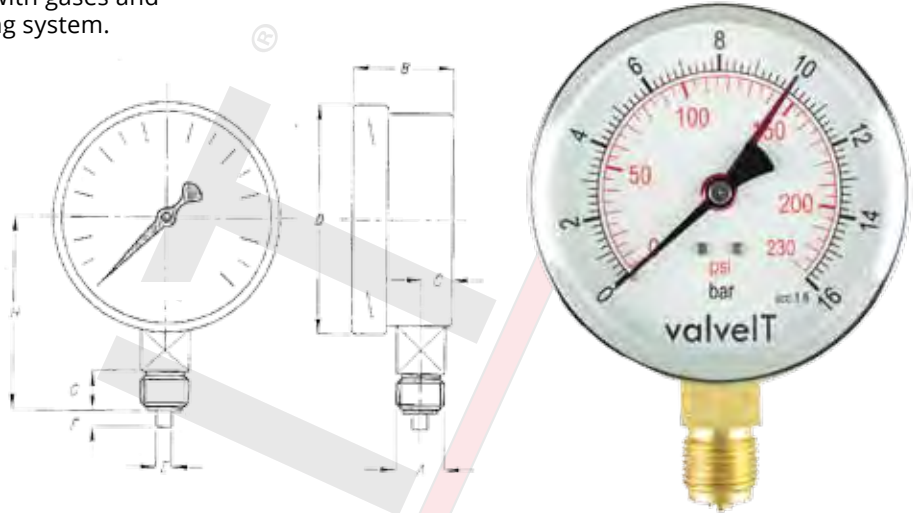
>100bar - Stainless Steel

*On Request (Forward Delivery)

Plastic case, other ranges and Dial diameters

*Subject to minimum order quantity

Note: For outdoor installation we recommend with Stainless Steel casing



Material Specification

No	Component	Material
1	Case	Steel case with Black muffing
2	Ring	Steel
3	Dial	Aluminium
4	Needle	Aluminium (Black Muffled)
5	Nipple	Brass
6	Pane	Sheet Glass

Dimensions

A	D	B	C	E	F	G	H
mm	mm	mm	mm	mm	mm	mm	mm
100	G 1/2"	50	16	6	5	20	87
160	G 1/2"	50*	16	6	5	20	118

valveIT Glass Tube Thermometers

Features

Aluminium Casing
Brass Insert
According to DIN 16181 to 16195
Straight
Small, Medium and Large Sizes

Application

HVAC installations and Shipbuilding

Accuracy

According to DIN 16184, 16188, 16193

Construction

Casing : V - Shape Aluminium gold coloured anodized, clear figures by means of black marking on gold-coloured background, Scale range in deg C.

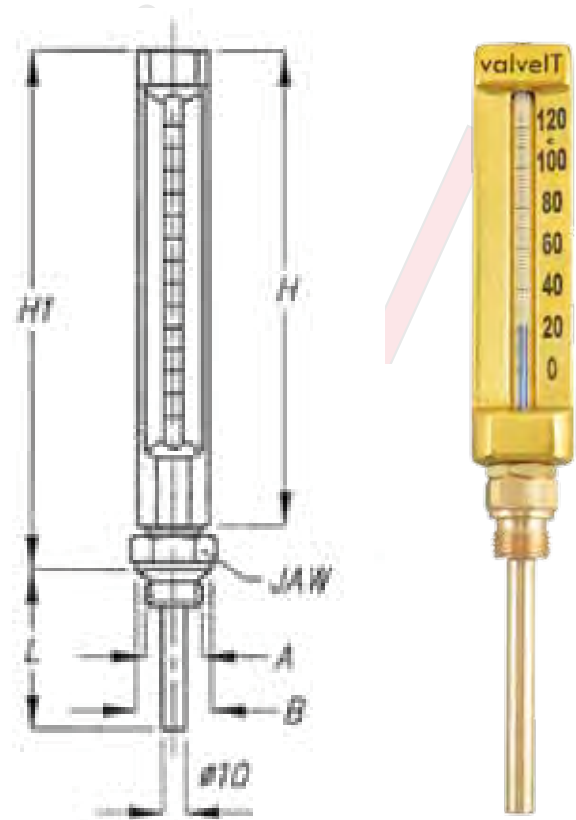
Insert : Brass, Maximum Pressure 16 bar, BSPP 1/2" Male Threaded end. The insert can be removed from casing.

Glass Insert: Capillary Tube of Prismatic solid glass with clear black scale marking, blue spirit filling on white background. Flexible mounted glass tube, protected by rubber rings

***On Request (Forward Delivery)**

Available in other ranges and sizes upon request.

***Subject to minimum order quantity**



Types

Straight Type
Small
Medium
Large

Ranges and Insert Lengths

	Small Type	Medium Type	Large Type
Scale Range (TG1)	-30 / +50 deg C	-30 / +50 deg C	-30 / +50 deg C
(TG2)	0 / 120 deg C	0 / 120 deg C	0 / 120 deg C
	-	0 / 160 deg C	0 / 160 deg C
Insert Length 'L'	40 mm	50 mm	-
	50 mm	63 mm	63 mm
	63 mm	100 mm	100 mm
	-	160 mm	160 mm
BSPP Connection 'A'	1/2"	1/2"	1/2"

Dimensions

Types	H mm	H1 mm	B mm
Small Type	110	130	30
Medium Type	150	170	36
Large Type	200	220	36

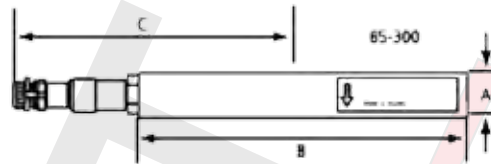
valveIT Metering Station 65 – 300

Application

valveIT metering station is used when measuring the flow in Cooling, heating and water supply systems. It is equipped with self-sealing measuring points.

Features

Size: DN 65 – DN 300
Pressure class: PN 16
Temperature Range: -20 deg C to 120 deg C
Max closing pressure: 200 kPa
Min pressure drop: 5 kPa
Recommended pressure drop at rated valve: 5 – 10 kPa
Material: Grey cast iron, Dezincification resistance brass Gaskets EPDM



VIT - 16 - OPC

Dimensions & Weights

Size (mm)	A	B	C	KVS	Weight (Kg)
65	20	129	127	93	1.450
80	20	144	134	126	1.710
100	20	164	144	244	1.910
125	20	194	159	415	2.480
150	20	220	172	540	2.820
200	20	275	200	1010	3.970
250	20	331	228	1450	4.990
300	20	386	255	2400	6.390

Flow measuring

The measuring instrument is connected to the measuring socket of the proving ring. The value for pressure drop can be read on the display. The flow can be read from the pressure drop diagram found in the below table.

Pressure drop chart for flow measuring

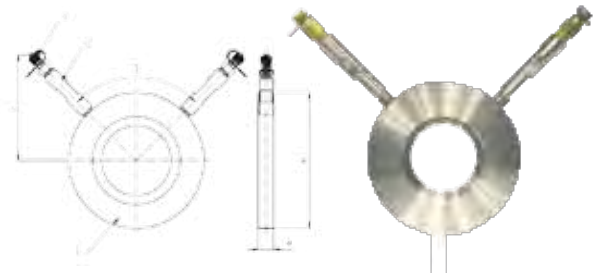
valveIT Stainless Steel Metering Station

Application

valveIT metering station is used when measuring the flow in Cooling, heating and water supply systems. It is equipped with selfsealing measuring points. Suitable for mount between BS EN 1092 PN 16 Flanges.

Features

Size: DN 65 – DN 600 (for dim above DN 300, please contact us)
Pressure class: PN 16
Temperature Range: -10 deg C to 120 deg C
*Available in PN 25 on forward delivery (subject to minimum order qty.)



VIT - 16 - OPS

Material Specification

No	Component	Material
1	Orifice Plate	Stainless steel SS 304
2	Extension tube	Stainless steel SS 316
3	Test points	Brass

Dimensions & Weights

Size (mm)	B (mm)	C (mm)	A (mm)	Kv	K	M3/h
65	18	112	127	151	1.6	104
80	18	118	142	203	1.4	116
100	18	125	165	351	1.4	213
125	18	135	192	550	1.3	333
150	18	145	218	765	1.7	476
200	18	165	273	1354	1.8	768
250	18	185	329	2103	1.8	1153
300	18	205	384	3009	1.4	1743

valveIT Brass Foot Valve

The foot valve is an automatic device that is generally installed at the intake point of a pump to prevent the emptying of the system's pump pipeline during rest phases.

Features

Brass Body
PN 16
Female threaded connection to ISO 228 / 1

Temperature

0°C (excluding ice) 110°C

Fluids

Heat transfer fluids in compliance with Italian national standards (UNI 8065 § 6)
Glycolate solutions (glycol) max .50%

Filtration Rating

Referenced micron rating (S) < 800 µm

Threading

Pipeline connections Threads according to ISO 228/1

Requirements and tests as per:

Shell tightness Test P11 - EN 12266-1

Δp closure non-return

200 Pa (0.02bar)



VIT - 16 - FVB

Material Specification

No	Component	Material
1	Body	Brass
2	Seat Gasket	NBR
3	Obturator	ACETAL RESIN
4	Spring	Stainless steel
5	Mesh Filter	Stainless steel
6	Blind Ends Filter	Stainless steel

valveIT Ductile Iron Foot Valve

The foot valve is an automatic device that is generally installed at the intake point of a pump to prevent the emptying of the system's pump pipeline during rest phases.

Features

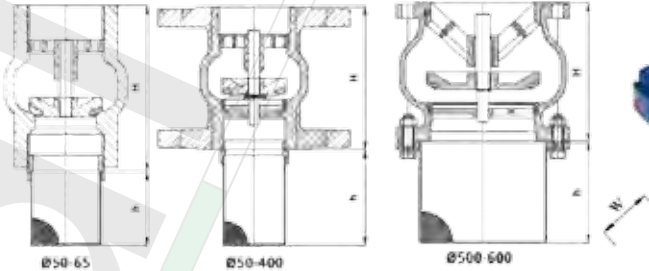
Ductile Iron/ Cast Iron/Carbon steel Body
PN 10/PN 16
Flanged Connection

Temperature

-10°C to 80°C

Fluids

Non-Hardous Water
Glycolate solutions (glycol) max .50%
Size: DN 50 - 600



VIT - 16 - FVD

Material Specification

No	Component	Material
1	Body & Disc	Ductile Iron
2	Shaft	X20Cr13
3	Seals	EPDM
4	Spring	Stainless steel
5	Strainer	Stainless steel

Dimensions & Weights

DN	65	80	100	125	150	200	250	300	350	400	450	500	550	600
H	125	145	155	175	200	225	275	325	375	425	475	500	587	710
h	60	90	90	100	125	150	200	250	300	350	430	600	550	700
W	165	185	200	220	250	285	340	395	445	505	565	650	670	780
Weight (Kg)	7	9	13	19	25	38	65	105	140	200	260	290	400	625

*Note: Design and dimensions are subject to change without prior notice.

valveIT 2/3 way bronze/brass valve/CI valve

VIT part-number	Description	VIT part-number	Description
3-way valves PN16		ACTUATORS	
VIT - 3FGB150	3way flanged valve DN150 KVS300	VIT - MVH3K	3 pos. / proportional, 3000N, 24V
VIT - 3FGB125	3way flanged valve DN125 KVS200	VIT - MVH3K	3 pos. / proportional, 3000N, 24V
VIT - 3FGB100	3way flanged valve DN100 KVS130	VIT - MVE522	3 pos. / proportional, 24V, 2200N
VIT - 3FGB80	3way flanged valve DN80 KVS100	VIT - MVE515	3 pos. / proportional, 24V, 1500N
VIT - 3FGBB65	3way flanged valve DN65 KVS63	VIT - MVE510	3 pos. / proportional, 24V, 1000N
VIT - 3TBB50	3way bronze valve 2" Kvs 38	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT - 3TBB40	3way bronze valve 1-1/2" Kvs 25	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT - 3TBB32	3way bronze valve 1-1/4" Kvs 16	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT - VMXT26P	3way brass valve 1" Kvs 6	VIT - MVE503S	proportional, 24Vac, 300N
VIT - VMXT24P	3way brass valve 3/4" Kvs 4	VIT - MVE503S	proportional, 24Vac, 300N
2-way valves PN16		ACTUATORS	
VIT-2FGB150B	2way valve (hogh close-off) flanged DN150 Kvs300	VIT - MVE515	3 pos. / proportional, 24V, 1500N
VIT-2FGB125B	2way valve (hogh close-off) flanged DN125 Kvs200	VIT - MVE515	3 pos. / proportional, 24V, 1500N
VIT-2FGB100B	2way valve (hogh close-off) flanged DN100 Kvs130	VIT - MVE510	3 pos. / proportional, 24V, 1000N
VIT-2FGB80B	2way valve (hogh close-off) flanged DN80 Kvs100	VIT - MVE510	3 pos. / proportional, 24V, 1000N
VIT-2FGB65B	2way valve (hogh close-off) flanged DN65 Kvs63	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT-2TBB50	2way bronze valve 2" Kvs 38	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT-2TBB40	2way bronze valve 1-1/2" Kvs 25	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT-2TBB32	2way bronze valve 1-1/4" Kvs 16	VIT - MVE506	3 pos. / proportional, 24V, 600N
VIT-VSXT26P	2way brass valve 1" Kvs 6	VIT - MVE503S	proportional, 24Vac, 300N
VIT-VSXT24P	2way brass valve 3/4" Kvs 4	VIT - MVE503S	proportional, 24Vac, 300N

APPLICATION AND USE

These valves can be used either for fluid control or detection in domestic hot water, air-conditioning, thermoventilation and heating plants, both environmental and industrial, and in machines for product thermal process. Three-way valves should be used only as mixing valves; angle way should never be used for control purposes.



MANUFACTURING CHARACTERISTICS

They consist in a 2/3-way valve body to be assembled on electrical bidirectional actuator.

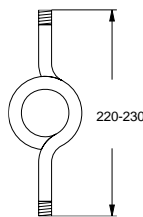
*Note: for more detailed description/ technical datasheets please contact us.



O - Siphon

VIT - 25 - OS

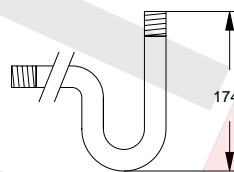
- PN 25
- Material : Steel ST 35.8 Coated
- Connection Size : BSP 1/2"



U - Siphon

VIT - 25 - US

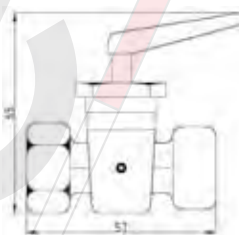
- PN 25
- Material : Steel ST 35.8 Coated
- Connection Size : BSP 1/2"



Pressure Gauge Cock

VIT - 25 - GC

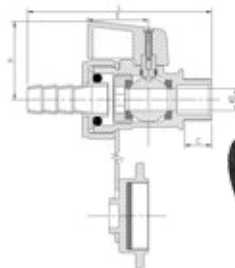
- PN 25
- Material : Brass
- Connection Size : 1/2"



Drain Cock

VIT - 10 - DBC

- PN 10
- Material : Brass
- Hose Connection with cap
- Connection Size : 1/2"

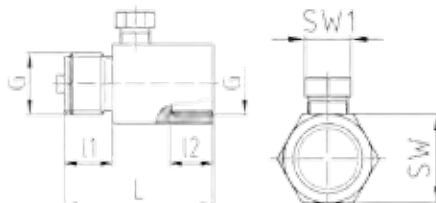


valveIT Pulsation Dampener

VIT - 10 - PD

Application & Features

The use of pressure surge reducers extends the pressure gauges' life cycle and enhances reading accuracy. The passage cross section can be adjusted with an adjusting screw and adapted to individual operating conditions. Pressure surge reducers protect pressure gauges from pressure surges and pulsations of the measuring medium.







Our online shop boasts the most extensive range of valves and accessories. You can find the product that's right for you 24 hours a day - 7 days a week. Our detailed technical information makes selecting the right valve child's play.



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