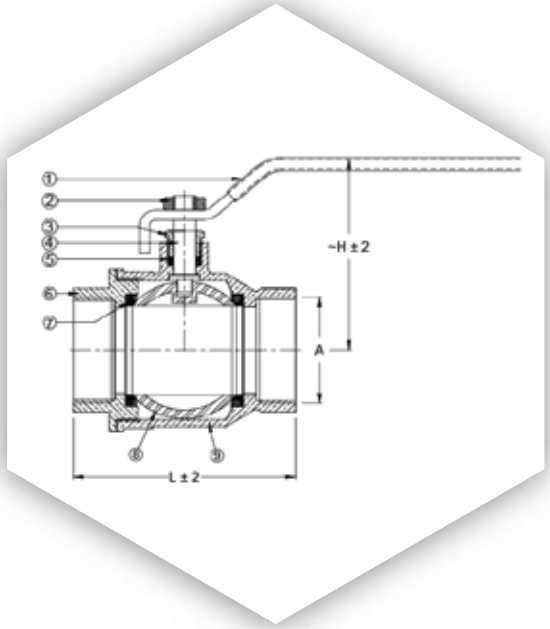
BRONZE BALL VALVE (BNBV25)

DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	L	H~	Weight (kg)
15 MM	1/2" BSP	60	56	0.34
20 MM	3/4" BSP	69	64	0.48
25 MM	1" BSP	76	65	0.64
32 MM	1-1/4" BSP	85	82	1.13
40 MM	1-1/2" BSP	99	98	1.71
50 MM	2 BSP	125	108	2.47

FEATURES & BENEFITS

- Light,compact and easy to install and operate.
- Improved leak protection.
- More resistant to damage during installation.
- Efficient stop valves with fluid flow in either direction.
- The straight through design offers little resistance to flow and reduces pressure drop to a minimum.
- Light, compact and easy to install and operate.
- Robust construction for long life and high quality bronze body.
- Full bore design to facilitate optimal flow rates with minimum turbulence.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	BRONZE : BS EN 1984 CC 491K
2	BONNET	BRONZE:BS EN 1984 CC 491 K
3	BALL	STAINLESS STEEL (SS 304)
4	SEAT	TEFLON (PTFE)
5	STEM	STAINLESS STEEL (SS 304)
6	PACKING RING	TEFLON(PTFE)
7	HANDLE	TEFLON (PTFE)
8	BALL	MILD STEEL(MS)
9	GLAND	BRONZE: BS EN 1984 CC 491 K

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 150 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

SPECIFICATION

Ball made of stainless steel,PTFE seats and stem seal.
Lever made of mild steel with plastic coating
Lever operated
End connection: Threaded to BS EN 10226-2(ISO 7-1).
Testing standard: BS EN 122266-2

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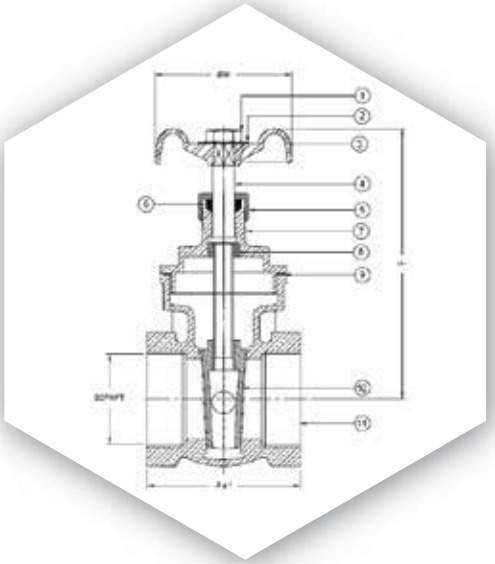
BRONZE GATE VALVE (GVBR20)

FEATURES & BENEFITS

- Non-rising stem is useful when shut-off is required and a space saving is necessary.
- Solid wedge,integral seats and bi-directonal.
- The female threaded ends allow for ease of installation.
- Screw-in bonnet for service where infrequent maintenance is required.
- Gate valves are best for services that require in frequent.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Nomenclature	Material
1	BODY	BRONZE: BS EN 1984 CC 491K
2	BONNET	BRONZE: BS EN 1984 CC 491K
3	WEDGE	BRONZE: BS EN 1984 CC 491K
4	STEM	DZR BRASS BS EN 12164 CW 602N
5	GLAND NUT	DZR BRASS BS EN 12164 CW 602N
6	GLAND PACKING	TEFLON (PTFE)
7	NAME PLATE	ALUMINIUM
8	CHECK NUT	BRONZE: BS EN 1984 CC 491K
9	PACKING	TEFLON (PTFE)
10	HAND WHEEL	ALUMINIUM
11	NUT	MILD STEEL

PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

DIMENSIONS & WEIGHTS

Size	A	H~	ØW	Weight (kg)
15 MM	46	82	54	0.27
20 MM	50	85	63	0.37
25MM	55	101	63	0.49
32MM	61	115	70	0.89
40MM	63	126	80	0.94
50MM	71	145	90	1.38

SPECIFICATION

- Solid wedge disc,Non-rising stem,screw-in bonnet.
- Single piece wedge.
- Hand wheel operated.
- End connection Threaded to BS EN 10226-2 (ISO 7-1).
- Double O-ring seal - zero leakage guaranteed.
- Design : BS EN 12288: 2010 PN20.
- Testing standard: BS EN 12266-2.

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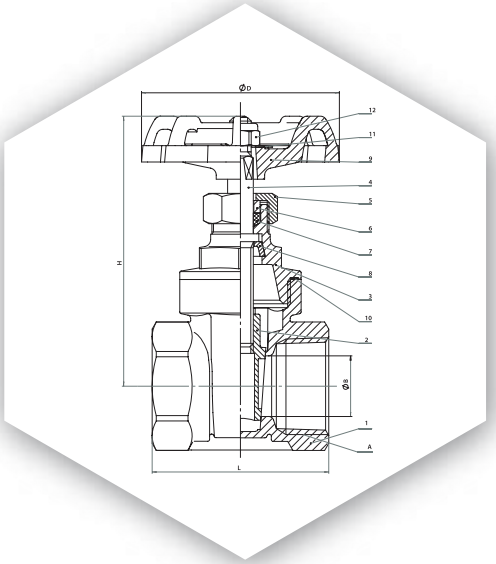
DZR BRASS GATE VALVE (GVDZ20)

FEATURES & BENEFITS

- Non-Rising is usefull when shut-off is required and a space saving is necessary
- Solid Wedge Disc, integral seat and bi-directional
- Female threaded ends allow for ease installation
- Screw-in bonnet service where frequent maintenance is required.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Nomenclature	Material
1	Body	CZ132
2	Disc Gate	CZ132
3	Bonnet	CZ132
4	Stem	H62
5	Nut	HPb60-3
6	Packing Washer	HPb60-3
7	Packing	PTFE
8	Clamping Ring	HPb59-1
9	Hand Wheel	HT150
10	Seat Washer	PTFE
11	Sign	0.4mm Aluminium
12	Nut M6	Stainless Steel

PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

DIMENSIONS & WEIGHTS

Size	R/G Inch	B mm	D mm	H mm	L mm
15 MM	1/2	12.8	55	70	45
20 MM	3/4	17	55	74.5	49.5
25MM	1	21	60	85	55
32MM	1 1/4	27	72	100	59.5
40MM	1 1/2	34	72	113	63
50MM	2	45	80	131	69
65MM	21/2	56	100	160	88

SPECIFICATION

- Solid wedge disc,Non-rising stem,screw-in bonnet.
- Single piece wedge.
- Hand wheel operated.
- End connection Threaded to BS EN 10226-2 (ISO 7-1).
- Double O-ring seal - zero leakage guranted
- Design : BS EN 12288: 2010 PN20.
- Testing standard: BS EN 12266-2

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BRONZE GATE VALVE RISING STEM (GVBRRS150)

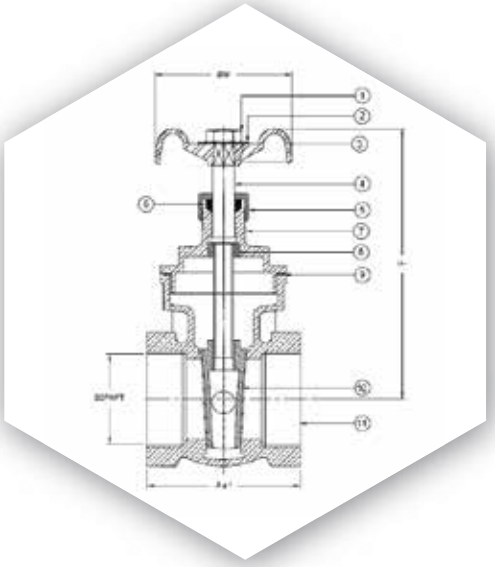
FEATURES & BENEFITS

- Rising stem id useful when shutoff is required and extended neck for perfect insulation.
- Soild wedge,integral seats and bi-directional.
- The female threaded ends allow for ease of installation.
- Screw-in bonnet for service where infrequent maintenance is required

MATERIAL SPECIFICATION

Part No.	Nomenclature	Material
1	BODY	BS EN 1984 CC 941K
2	WEDGE	BS EN 1984 CC 491K
3	SPINDLE	BS : 2874 CZ 114
4	BONNET	BS EN 1984 CC 491K
5	PACKING	TEFLON : PTFE
6	GLAND NUT	BS EN 1984 CC 491K
7	HAND WHEEL	CAST IRON
8	WASHER	MILDSTEEL : MS
9	HEX NUT	MILDSTEEL : MS
10	GLAND	BS : 2874 CZ 114

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 225 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

DIMENSIONS & WEIGHTS

Size	A	L	H~	ØW	Weight (kg)
15 MM	1/2"BSP	60	140	58	0.35
20 MM	3/4"BSP	60	140	58	0.42
25MM	1"BSP	70	160	67	0.54
32MM	1-1/4"BSP	80	190	73	0.95
40MM	1-1/2"BSP	90	190	85	1
50MM	2"BSP	100	230	110	1.50

SPECIFICATION

- Solid wedge disk, rising stem, screw-in bonnet.
- Single piece wedge.
- Hand Wheel operated.
- End connection threaded : ANSI B1.20.1
- Rating : CLASS 150
- Design standard : MSS SP-80
- Testing Standard : API 598

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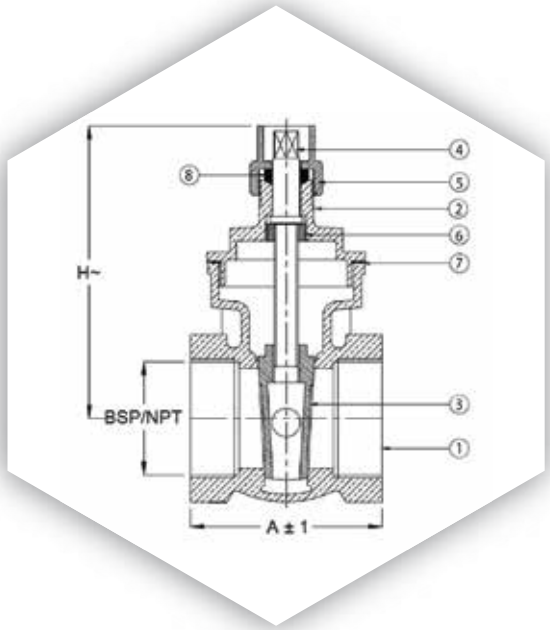
BRONZE LOCK SHIELD VALVE (BNLGV20)

DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	H~	Weight (kg)
15 MM	46	70	0.25
20 MM	50	74	0.35
25 MM	55	84	0.45
32 MM	61	97	0.65
40 MM	63	109	0.90
50 MM	71	125	1.30

FEATURES & BENEFITS

- Non-rising stem is useful when shut-off is required and a space saving is necessary.
- Solid wedge, integral seats and bi-directional.
- The female threaded ends allow for ease of installation.
- Screw-in bonnet for service where in frequent maintenance is required.
- Ultimate in dependable service.
- Standard allen key for operations.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1.	Body	BRONZE : BS EN 1984 CC 491K
2.	Bonnect	BRONZE : BS EN 1984 CC 491K
3.	Wedge	BRONZE : BS EN 1984 CC 491K
4.	Stem	BRASS : DZR BRASS 12164 CW 602 N
5.	Gland Nut	FORGED BRASS : DR BRASS 12164 CW 602 N
6.	Check Nut	BRONZE : BS EN 1984 CC 491K
7.	Packing	TEFLON : PTFE
8.	Gland Packing	TEFLON : PTFE

PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °C

TEST PRESSURE

Shell	30 bar
Seat	22 bar

SPECIFICATION

- Solid Wedge disc, Non-rising stem.
- Single piece wedge.
- End connection Threaded to BS EN 10226-2(ISO 7-1)
- Design Standard : BS EN 12288 : 2010 PN20.
- Testing Standard : BS EN 12266-2.

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BRONZE Y-STRAINER (STBR20)

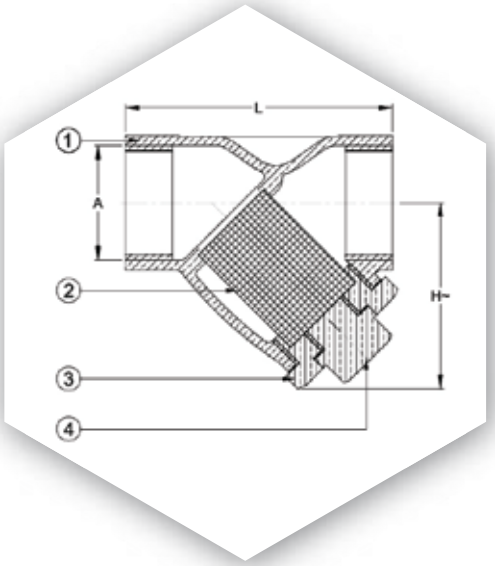
FEATURES & BENEFITS

- Perforated stainless steel screen & Robust design.
- The female threaded ends allow for ease of installation.
- Low flow resistance and 50% Freeflow area.
- Streamlined flow contours minimize pressure drop.
- Compact design with short face to face.
- Asbestos-Free non-stick gasket.
- Comprehensive flow characteristics.
- Reduce the maintenance cost as well as minimising down time by protecting the circuit from damaged by any foreign metals or particles.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	BRONZE : BS EN 1984 CC 491K
2	SCREEN	STAINLESS STEEL (SS 304)
3	BONNET	BRONZE : BS EN 1984 CC 491K
4	RETAINING NUT	BRONZE : BS EN 1984 CC 491K

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	30 bar

SPECIFICATION

- Strainers fitted with stainless steel perforated strainer element.
- Mesh Size: 0.75mm
- Screens fitted into Strainers conform to the high standards of materials.
- End connection Threaded to BS EN 10226-2 (ISO 7-1)
- Testing Standard : BS EN 12266-2

DIMENSIONS & WEIGHTS

Size	A	L	H	Weight (kg)
15 MM	1/2" BSP	60	41	0.22
20 MM	3/4" BSP	70	47	0.31
25MM	1" BSP	78	54	0.46
32MM	1-1/4" BSP	92	67	0.68
40MM	1-1/2" BSP	105	78	0.96
50MM	2" BSP	125	92	1.56

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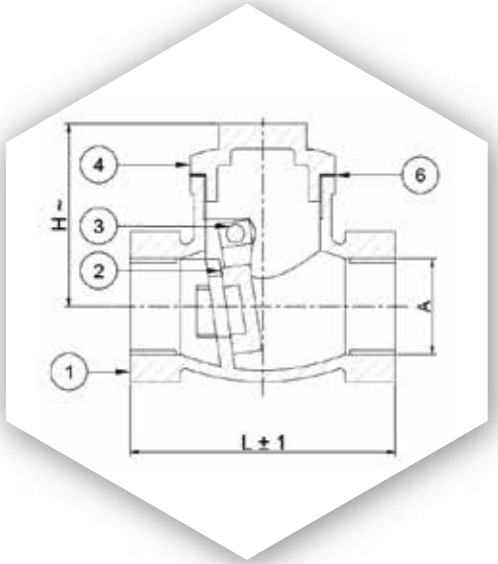
BRONZE SWING CHECK VALVE (CVSBR20)

DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	L‡	H~	Weight (kg)
15 MM	1/2" BSP	82	54	0.34
20 MM	3/4" BSP	85	63	0.40
25 MM	1" BSP	101	63	0.58
32 MM	1-1/4" BSP	115	70	0.84
40 MM	1-1/2" BSP	126	80	1.05
50 MM	2 BSP	145	90	1.50

FEATURES & BENEFITS

- Check valve permits flowing one direction and restrict reverse flow.
- Robust and high quality bronze body.
- Metal to metal seat for enhance sealing.
- Automatic in action, depending upon pressure & velocity of flow with the line to perform the fucntions of open and close.
- Screw-in bonnet service for easy regrinding disc.
- Suitable for mounting in horizontal and vertical pipe (follow the Arrow Upwards).

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	BRONZE : BS EN 1984 CC 491K
2	DISC	BRONZE : BS EN 1984 CC 491K
3	PIN	BRASS : DZR BRASS 12164 CW 602 N
4	COVER	BRONZE : BS EN 1984 CC 491K
5	HEX BOLT	BRASS : DZR BRASS 12164 CW 602 N
6	GASKET	PTFE

PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

SPECIFICATION

- Bronze body, Swing pattern.
- Metal to metal seat, Threaded cap.
- End connection Threaded to BS EN 10226-2 (ISO 7-1).
- Design standard BS 5154:1991.
- Testing standard BS EN 12266-2.

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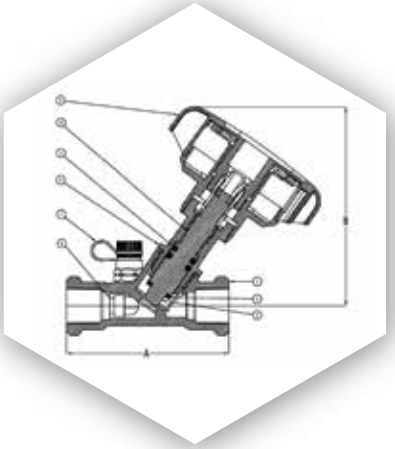
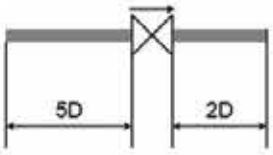
BRONZE FIXED ORIFICE DRV (BNFODRV25)

DIMENSIONAL DRAWINGS



INSTALLATION

Always install the valve with the arrow on the body in the same directions of flow. In order to avoid turbulence, which will effect the measuring accuracy, it is recommended to have a straight length of pipe up and down stream from the valve as shown (D-diameter of pipe)



DIMENSIONS & WEIGHTS

Size	A	B	Weight (kg)	kv
15 MM	87	110	0.61	1.87
20 MM	86	111	0.65	3.14
25MM	100	132	0.95	5.59
32MM	114	133	1.13	10.8
40MM	125	148	1.52	18.1
50MM	146	149	1.98	29.1

FEATURES & BENEFITS

- Provide precise and accurate flow measurements
- Integral square edged orifice plate and test points(3mm) fitted feature allows valve opening to be set within Allen key.
- Build in measuring nipples(test points) for flow measurement based on kv methodology.
- The double regulating wall with its integral fixed orifice
- Design offers an accuracy of ±5% on all settings for precise flow regulation and the measurement
- The female threaded ends allows for ease of installation
- Screw in Bonnet for service where in frequent maintenance is required.
- Quickly and easily Installed using a press-fit tool.
- Provide flow control at all settings.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	BRONZE : BS BN1964 CC480K
2	BONNET	DZR COPPER ALLOY: BS EN12165CW 602N
3	DISC	DZR COPPER ALLOY : BS EN 12165 CW 602N
4	STEM	DZR COPPER ALLOY: BS EN 12165 CW 602 N
5	O- RING SEAL	RUBBER – EPDM
6	ORIFICE INSERT	DZR COPPER ALLOY: BS EN 12165CW 602N
7	TEST POINT	DZR COPPER ALLOY: BS EN 12165 CW 602N
8	HANDWHEEL	PLASTIC

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

SPECIFICATION

- Hand wheel operated with micro meter indication.
- Y-Pattern globe type design.
- Conforms to BS 7350 for flow measurements and regulation.
- Y – pattern globe having characteristics throttling disc with the equal percentage.
- Performance mounted on flow or return pipe.
- Shutt – off function for service and repair.
- End connection threaded to BS EN 10226 (ISO 7-1).
- Design standard : BS EN12288: 2010 PN20.
- Testing standard: BS EN 12266-2.

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DUCTILE IRON GATE VALVE (GX16 / GX16D)

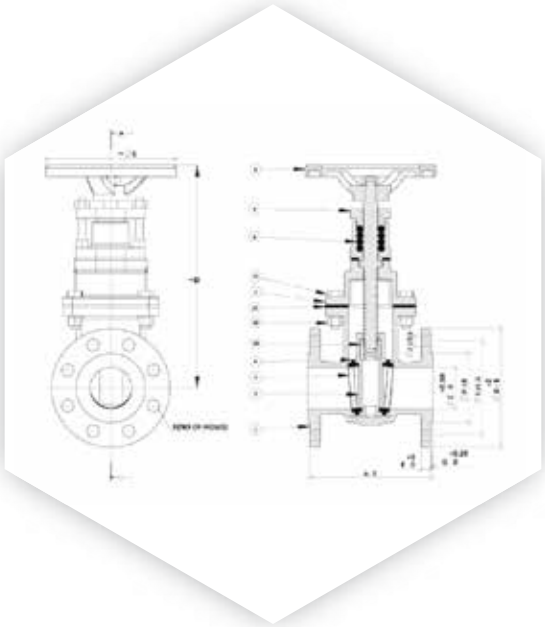
VALVE SELECTION

SPECIFICATION	PART NUMBER
SOFT SEAT	GX16
METAL SEAT	GX16D

FEATURES & BENEFITS

- The valves are delivered with handwheel or round cap.
- Full and straight bore in order to avoid turbulence ,loss of head and VENTURI effect.
- Can be mounted in non-vertical positions.
- Non-rising stem is useful when shutoff is required and a space saving is necessary.
- solid wedge and bi-directional.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1030
2	BONNET	DUCTILE IRON : BS EN 1563 EN-JS1030
3	WEDGE	DUCTILE IRON : BS EN 1563 EN-JS1030
4	WEDGE	DUCTILE IRON + EPDM
5	STEM	STAINLESS STEEL : BS EN 10088-1GR.1.4006
6	BODY SEAT RING	CAST BRONZE: BS EN 1982 C C 491K
7	WEDGE SEAT RING	CAST BRONZE : BS EN 1982 C C 491K
8	GLAND FLANGE	DUCTILE IRON : BS EN 1563 EN-JS1030
9	HAND WHEEL	DUCTILE IRON : BS EN 1563 EN-JS1030
10	GLAND PACKING	RUBBER : EPDM
11	GASKET	RUBBER :EPDM
12	BOLT	CARBON STEEL : BS 4439 GR.8.8
13	NUT	CARBON STEEL : BS 3692 GR.8
14	WEDGE NUT	CAST BRONZE : BS EN 1982 C C 491K

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	H	I	J	K	Weight (kg)
65 MM	190	185	65	380	225	16	3	118	145	19	4	13
80 MM	203	200	80	425	225	16	3	132	160	19	8	15
100MM	229	220	100	470	320	16	3	156	180	19	8	19
125MM	254	250	125	485	320	16	3	184	210	19	8	25
150MM	267	285	150	595	320	16	3	211	240	23	8	33
200MM	282	340	200	725	360	17	3	266	295	23	12	51
250MM	330	405	250	835	400	19	3	319	355	28	12	78
300MM	356	460	300	910	400	20.5	4	370	410	28	12	112
350MM	381	520	350	1030	500	22.5	4	429	470	28	16	160
400MM	406	580	400	1110	640	24	4	480	525	31	16	210

SPECIFICATION

- Ductile iron with integral flanges
- Hand wheel operated.
- Face to face: DIN 3202 F4
- End connection: PN16
- Flanged : BS EN1092-1
- Design standard : DIN 3352 F4
- Testing standard : BS EN 12266-2

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DUCTILE IRON GATE VALVE (GX25 / GX25D)

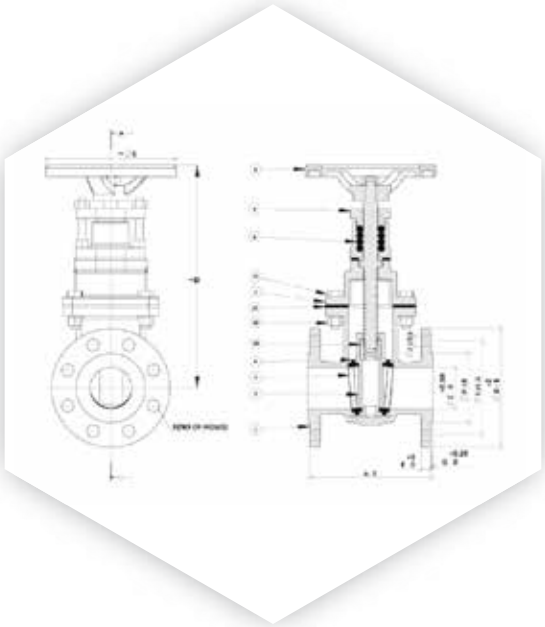
VALVE SELECTION

SPECIFICATION	PART NUMBER
SOFT SEAT	GX25
METAL SEAT	GX25D

FEATURES & BENEFITS

- The valves are delivered with handwheel or round cap.
- Full and straight bore in order to avoid turbulence ,loss of head and VENTURI effect.
- Can be mounted in non-vertical positions.
- Non-rising stem is useful when shutoff is required and a space saving is necessary.
- solid wedge and bi-directional.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1030
2	BONNET	DUCTILE IRON : BS EN 1563 EN-JS1030
3	WEDGE	DUCTILE IRON : BS EN 1563 EN-JS1030
4	WEDGE	DUCTILE IRON + EPDM
5	STEM	STAINLESS STEEL : BS EN 10088-1GR.1.4006
6	BODY SEAT RING	CAST BRONZE: BS EN 1982 C C 491K
7	WEDGE SEAT RING	CAST BRONZE : BS EN 1982 C C 491K
8	GLAND FLANGE	DUCTILE IRON : BS EN 1563 EN-JS1030
9	HAND WHEEL	DUCTILE IRON : BS EN 1563 EN-JS1030
10	GLAND PACKING	RUBBER : EPDM
11	GASKET	RUBBER :EPDM
12	BOLT	CARBON STEEL : BS 4439 GR.8.8
13	NUT	CARBON STEEL : BS 3692 GR.8
14	WEDGE NUT	CAST BRONZE : BS EN 1982 C C 491K

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	H	I	J	K	Weight (kg)
65 MM	190	185	65	380	225	16	3	118	145	19	4	13
80 MM	203	200	80	425	225	16	3	132	160	19	8	15
100MM	229	220	100	470	320	16	3	156	180	19	8	19
125MM	254	250	125	485	320	16	3	184	210	19	8	25
150MM	267	285	150	595	320	16	3	211	240	23	8	33
200MM	282	340	200	725	360	17	3	266	295	23	12	51
250MM	330	405	250	835	400	19	3	319	355	28	12	78
300MM	356	460	300	910	400	20.5	4	370	410	28	12	112
350MM	381	520	350	1030	500	22.5	4	429	470	28	16	160
400MM	406	580	400	1110	640	24	4	480	525	31	16	210

SPECIFICATION

- Ductile iron with integral flanges
- Hand wheel operated.
- Face to face: DIN 3202 F4
- End connection: PN25
- Flanged : BS EN1092-1
- Design standard : DIN 3352 F4
- Testing standard : BS EN 12266-2

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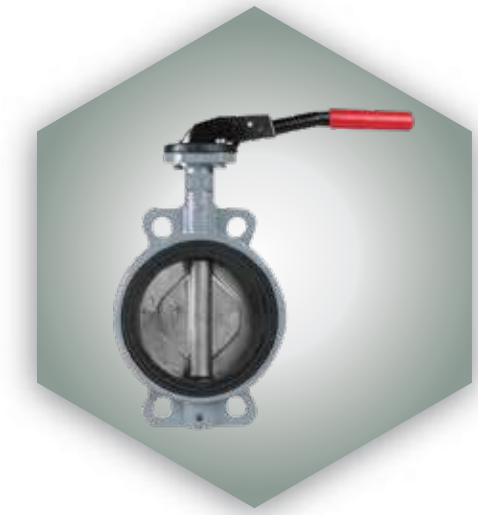
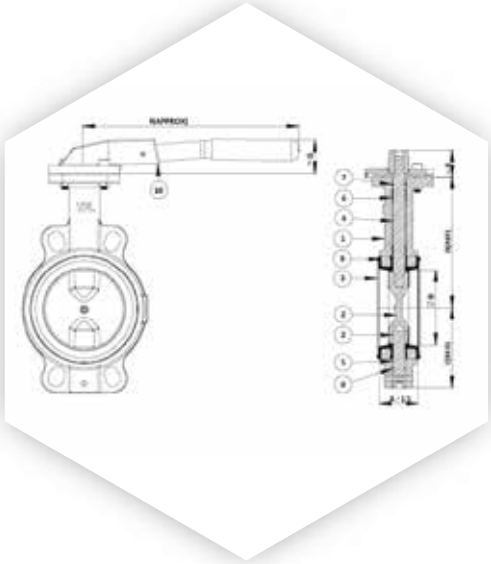
DUCTILE IRON BUTTERFLY VALVE WAFER (BFX16-W / BFX16S-W)



DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	Weight (kg)
65 MM	46	66	79	140	35	220	49	4
80 MM	46	80	96	147	40	260	60	5
100MM	52	101	106	172	40	260	60	6.50
125MM	56	124	121	187	45	315	75	7
150MM	56	150	134	201	45	315	75	9
200MM	60	201	168	229	50	315	75	20.50
250MM	68	251	202	269	81	215	200	28.50
300MM	78	301	234	298	81	215	200	35
350MM	78	340	275	328	92	302	400	58
400MM	102	391	303	358	92	302	400	80
450MM	114	442	356	403	92	302	400	105
500MM	127	486	382	435	127	430	608	121.50
600MM	154	585	440	510	127	430	608	215.50

VALVE SELECTION

PART NAME	EPDM LINER
NP DUCTILE IRON DISC	BFX 16 - W
STAINLESS STEEL DISC	BFX 16S - W

FEATURES & BENEFITS

- Long neck for insulation, Maintenance free.
- 200 Micron Fusion Bonded Epoxy Powder coated for improved barrier to corrosive chemicals,moisture and humid air.
- Valves DN200 and larger sizes supplied as standard with fully enclosed gear operator.
- Unique triple sealing system for shaft sealing,eliminates any fugitive emission or secondary leakage.
- EPDM seat liner extending on to the flange contact face, eliminates the need for separate flange gaskets during installations.
- Suitable for ON / OFF and modulating duty (Torque details available on request).
- EPDM Fusion bonded lined valves available.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1030
2	DISC	DUCTILE IRON NICKEL PLATED : BS EN 1563 EN-JS 1050
3	DISC	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
4	SEAT	RUBBER : EPDM
5	SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
6	PIVOT SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
7	SHAFT WEATHER SEAL	RUBBER : EPDM
8	PIVOT SHAFT WEATHER SEAL	RUBBER : EPDM
9	BACK UP RING	PLASTIC / METAL
10	HAND LEVER	STEEL TUBE + EPOXY
11	GEAR BOX	SEE GEAR BOX BOM

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

SPECIFICATION

- Self lubricated pipe lined bearings for both drive end & non-drive end Shafts ensures minimum friction torque and safe operations.
- Bi-directional valve with tight shut-off sealing capability to hold vaccum rated pressure in either direction.
- Excellent adaptability for actuated operation through standardized (ISO 5211) top flange mounting for actuator fitment.
- Wafer pattern suitable for PN16 flanges
- Flanged : BS EN 1092-1
- Face to Face: BS EN 558:2008
- Working standard : BS EN593
- Testing standard : BS EN 12266-2

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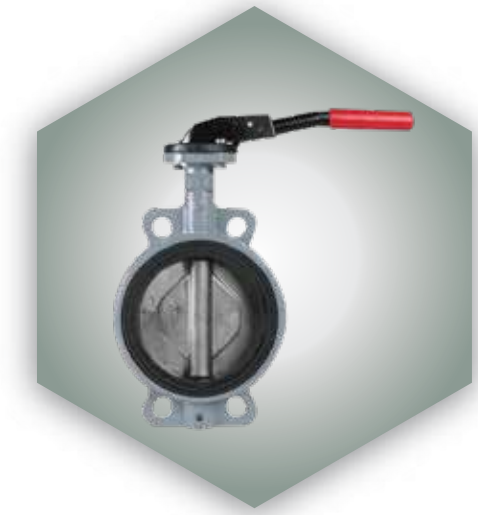
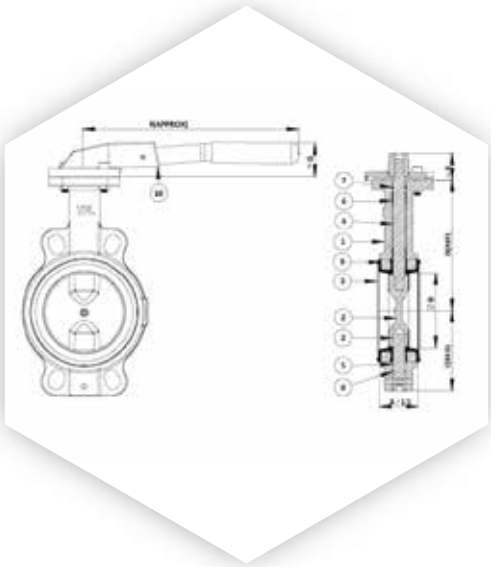
DUCTILE IRON BUTTERFLY VALVE WAFER (BFX25-W / BFX25S-W)



DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	Weight (kg)
65 MM	46	66	79	140	35	220	49	4
80 MM	46	80	96	147	40	260	60	5
100MM	52	101	106	172	40	260	60	6.50
125MM	56	124	121	187	45	315	75	7
150MM	56	150	134	201	45	315	75	9
200MM	60	201	168	229	50	315	75	20.50
250MM	68	251	202	269	81	215	200	28.50
300MM	78	301	234	298	81	215	200	35
350MM	78	340	275	328	92	302	400	58
400MM	102	391	303	358	92	302	400	80
450MM	114	442	356	403	92	302	400	105
500MM	127	486	382	435	127	430	608	121.50
600MM	154	585	440	510	127	430	608	215.50

VALVE SELECTION

PART NAME	EPDM LINER
NP DUCTILE IRON DISC	BFX 25 - W
STAINLESS STEEL DISC	BFX 25S - W

FEATURES & BENEFITS

- Long neck for insulation, Maintenance free.
- 200 Micron Fusion Bonded Epoxy Powder coated for improved barrier to corrosive chemicals,moisture and humid air.
- Valves DN200 and larger sizes supplied as standard with fully enclosed gear operator.
- Unique triple sealing system for shaft sealing,eliminates any fugitive emission or secondary leakage.
- EPDM seat liner extending on to the flange contact face, eliminates the need for separate flange gaskets during installations.
- Suitable for ON / OFF and modulating duty (Torque details available on request).
- EPDM Fusion bonded lined valves available.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1030
2	DISC	DUCTILE IRON NICKEL PLATED : BS EN 1563 EN-JS 1050
3	DISC	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
4	SEAT	RUBBER : EPDM
5	SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
6	PIVOT SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
7	SHAFT WEATHER SEAL	RUBBER : EPDM
8	PIVOT SHAFT WEATHER SEAL	RUBBER : EPDM
9	BACK UP RING	PLASTIC / METAL
10	HAND LEVER	STEEL TUBE + EPOXY
11	GEAR BOX	SEE GEAR BOX BOM

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

SPECIFICATION

- Self lubricated pipe lined bearings for both drive end & non-drive end Shafts ensures minimum friction torque and safe operations.
- Bi-directional valve with tight shut-off sealing capability to hold vaccum rated pressure in either direction.
- Excellent adaptability for actuated operation through standardized (ISO 5211) top flange mounting for actuator fitment.
- Wafer pattern suitable for PN25 flanges
- Flanged : BS EN 1092-1
- Face to Face: BS EN 558:2008
- Working standard : BS EN593
- Testing standard : BS EN 12266-2

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DUCTILE IRON BUTTERFLY VALVE LUGGED (BFX16-L / BFX16S-L)

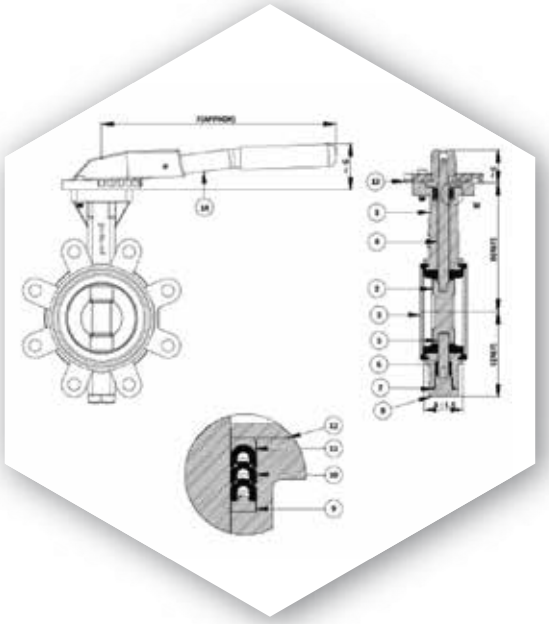
VALVE SELECTION

SPECIFICATION	PART NUMBER
NP DUCTILE IRON DISC	BFX 16 - L
STAINLESS STEEL DISC	BFX 16S - L

FEATURES & BENEFITS

- Long neck for insulation, Maintenance free.
- 200 Micron Fusion Bonded Epoxy Powder coated for improved barrier to corrosive chemicals, moisture and humid air.
- Valves DN200 and larger sizes supplied as standard with fully enclosed gear operator.
- Unique triple sealing system for shaft sealing. eleminates any fugitive emission or secondary leakage.
- EPDM seat liner extending on to the flange gaskets during installations.
- Suitable for ON/OFF and modulating duty (Torque details available on request.
- EPDM Fusion bonded lined valves available upon request.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	DISC	DUCTILE IRON NICKEL PLATED : BS EN 1563 EN-JS 1050
3	DISC	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
4	SEAT	RUBBER : EPDM
5	SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
6	PIVOT SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
7	PIVOT SHAFT BUSH	PLASTIC : LDPE
8	PLUG WEATHER SEAL	RUBBER : EPDM
9	PLUG	DUCTILE IRON : BS EN 1563 EN-JS 1030
10	LOWER RING	MILD STEEL
11	STEM SEAL	RUBBER : EPDM
12	SEAL ENERGISING RING	MILD STEEL
13	SEAL RETAINER	MILD STEEL
14	LOCK PLATE	REINFORCE POLYAMIDE
15	HAND LEVER	STEEL TUBE+EPOXY
16	GEAR BOX	SEE GEAR BOX BOM

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	Weight (kg)
65 MM	46	66	79	140	35	220	49	7
80 MM	46	80	96	147	40	260	60	7.50
100MM	52	101	106	172	40	260	60	10
125MM	56	124	121	187	45	315	75	11
150MM	56	150	134	201	45	315	75	12.50
200MM	60	201	168	229	81	215	200	24
250MM	68	251	202	269	81	215	200	34
300MM	78	301	234	298	81	215	200	44
350MM	78	340	275	328	92	302	400	67
400MM	102	391	303	358	92	302	400	106

SPECIFICATION

- Self lubricated pipe lined bearings for both drive end & non-drive end shafts ensures minimum friction torque and safe operations.
- Bi-Directional valve with tight shut-off sealing capability to hold vaccum rated pressure in either direction.
- Excellent adaptability for actuated operation through standardised (ISO 5211) top flange mounting for actuator fitment.
- End connection lugged pattern suitable for PN25 flanges.
- Flanged: BS EN 1092-1
- Face to Face: BS EN 558:2008
- Working Standard : BS EN593
- Testing Standard : BS EN 12266-2

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DUCTILE IRON BUTTERFLY VALVE LUGGED (BFX25-L / BFX25S-L)

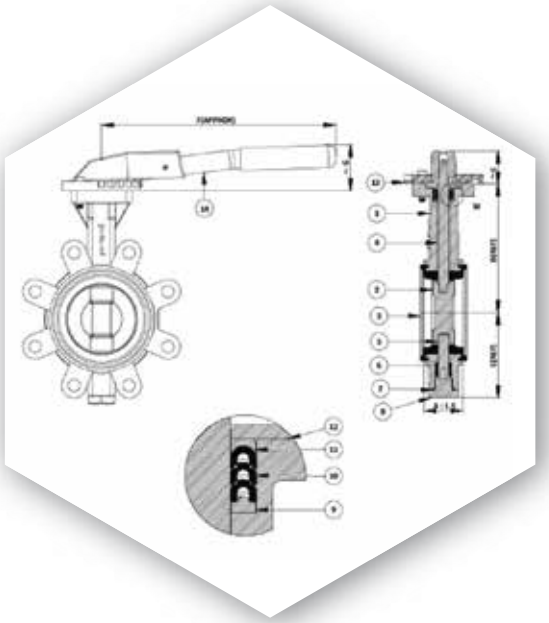
VALVE SELECTION

SPECIFICATION	PART NUMBER
NP DUCTILE IRON DISC	BFX 25 - L
STAINLESS STEEL DISC	BFX 25S - L

FEATURES & BENEFITS

- Long neck for insulation, Maintenance free.
- 200 Micron Fusion Bonded Epoxy Powder coated for improved barrier to corrosive chemicals, moisture and humid air.
- Valves DN200 and larger sizes supplied as standard with fully enclosed gear operator.
- Unique triple sealing system for shaft sealing. eleminates any fugitive emission or secondary leakage.
- EPDM seat liner extending on to the flange gaskets during installations.
- Suitable for ON/OFF and modulating duty (Torque details available on request.
- EPDM Fusion bonded lined valves available.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	DISC	DUCTILE IRON NICKEL PLATED : BS EN 1563 EN-JS 1050
3	DISC	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
4	SEAT	RUBBER : EPDM
5	SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
6	PIVOT SHAFT	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
7	PIVOT SHAFT BUSH	PLASTIC : LDPE
8	PLUG WEATHER SEAL	RUBBER : EPDM
9	PLUG	DUCTILE IRON : BS EN 1563 EN-JS 1030
10	LOWER RING	MILD STEEL
11	STEM SEAL	RUBBER : EPDM
12	SEAL ENERGISING RING	MILD STEEL
13	SEAL RETAINER	MILD STEEL
14	LOCK PLATE	REINFORCE POLYAMIDE
15	HAND LEVER	STEEL TUBE+EPOXY
16	GEAR BOX	SEE GEAR BOX BOM

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	Weight (kg)
65 MM	46	66	79	140	35	220	49	7
80 MM	46	80	96	147	40	260	60	7.50
100MM	52	101	106	172	40	260	60	10
125MM	56	124	121	187	45	315	75	11
150MM	56	150	134	201	45	315	75	12.50
200MM	60	201	168	229	81	215	200	24
250MM	68	251	202	269	81	215	200	34
300MM	78	301	234	298	81	215	200	44
350MM	78	340	275	328	92	302	400	67
400MM	102	391	303	358	92	302	400	106

SPECIFICATION

- Self lubricated pipe lined bearings for both drive end & non-drive end shafts ensures minimum friction torque and safe operations.
- Bi-Directional valve with tight shut-off sealing capability to hold vaccum rated pressure in either direction.
- Excellent adaptability for actuated operation through standardised (ISO 5211) top flange mounting for actuator fitment.
- End connection lugged pattern suitable for PN25 flanges.
- Flanged: BS EN 1092-1
- Face to Face: BS EN 558:2008
- Working Standard : BS EN593
- Testing Standard : BS EN 12266-2

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DUCTILE IRON Y-STRAINER (ST16)

SCREEN DIMENSIONS

SCREEN DIMENSIONS

SIZE	HOLE SIZE	OPEN RATIO	THICKNESS
25-80MM	1.9MM	35%	26 GAUGE
100-150MM	2.5MM	40%	24 GAUGE
200-300MM	5.0MM	48%	22 GAUGE

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	H	I	J	Weight (kg)
65 MM	290	65	185	145	16	19	3	118	4	225	14.50
80 MM	310	80	200	160	16	19	3	132	8	260	18.50
100MM	350	100	220	180	16	19	3	156	8	300	24.50
125MM	400	125	250	210	16	19	3	184	8	350	37.50
150MM	450	150	285	240	16	23	3	211	8	395	54
200MM	600	200	340	295	17	23	3	266	12	460	97.50
250MM	730	250	400	355	19	28	3	319	12	635	156
300MM	850	300	455	410	20.5	28	4	370	12	500	230

Bigger sizes can be provided as per request

FEATURES & BENEFITS

- Perforated stainless steel screen & Robust design.
- Low flow resistance and offer 35% open area and above.
- Steamlined flow contours minimize pressure drop.
- Compact design with short face to face.
- 200 Micron Fusion Bonded Epoxy Powder coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- Asbestos-free non-stick gasket.
- Comprehensive flow characteristics.
- These strainers must not be used in an end of line application without a blanking flange being fitted on the downsteam end of the valve.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1050
2	BONNET	DUCTILE IRON : BS EN 1563 EN-JS1050
3	SCREEN	STAINLESS STEEL
4	GASKET/O-RING	RUBBER : EPDM
5	STUD	CARBON STEEL : BS 4439 GR.8.8
6	NUT	CARBON STEEL : BS 3692 GR.8
7	PLUG	DUCTILE IRON : BS EN 1563 EN-JS1030

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURE

Shell	24 bar

PLUG DIMENSIONS

SIZE	THREAD SIZE
65-100 MM	1/2" BSP
125-250 MM	3/4" BSP
300 MM	1" BSP

SPECIFICATION

- Strainers fitted with stainless steel perforated stainer element.
- Stainless Screens fitted into Strainers confirm to the high standards of materials.
- Face to Face : BS EN 558:2008.
- End connection : BS EN 1092-1.
- Testing Standard : BS EN 12266-2.

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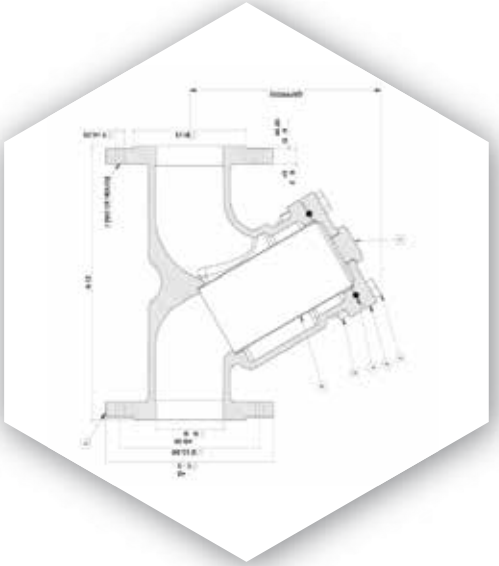
DUCTILE IRON Y-STRAINER (ST25)

SCREEN DIMENSIONS



SCREEN DIMENSIONS

SIZE	HOLE SIZE	OPEN RATIO	THICKNESS
25-80MM	1.9MM	35%	26 GAUGE
100-150MM	2.5MM	40%	24 GAUGE
200-300MM	5.0MM	48%	22 GAUGE

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	H	I	J	Weight (kg)
65 MM	290	65	185	145	16	19	3	118	4	225	14.50
80 MM	310	80	200	160	16	19	3	132	8	260	18.50
100MM	350	100	220	180	16	19	3	156	8	300	24.50
125MM	400	125	250	210	16	19	3	184	8	350	37.50
150MM	450	150	285	240	16	23	3	211	8	395	54
200MM	600	200	340	295	17	23	3	266	12	460	97.50
250MM	730	250	400	355	19	28	3	319	12	635	156
300MM	850	300	455	410	20.5	28	4	370	12	500	230

Bigger sizes can be provided as per request

FEATURES & BENEFITS

- Perforated stainless steel screen & Robust design.
- Low flow resistance and offer 35% open area and above.
- Steamlined flow contours minimize pressure drop.
- Compact design with short face to face.
- 200 Micron Fusion Bonded Epoxy Powder coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- Asbestos-free non-stick gasket.
- Comprehensive flow characteristics.
- These strainers must not be used in an end of line application without a blanking flange being fitted on the downsteam end of the valve.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1050
2	BONNET	DUCTILE IRON : BS EN 1563 EN-JS1050
3	SCREEN	STAINLESS STEEL
4	GASKET/O-RING	RUBBER : EPDM
5	STUD	CARBON STEEL : BS 4439 GR.8.8
6	NUT	CARBON STEEL : BS 3692 GR.8
7	PLUG	DUCTILE IRON : BS EN 1563 EN-JS1030

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURE

Shell	37.5 bar

PLUG DIMENSIONS

SIZE	THREAD SIZE
65-100 MM	1/2" BSP
125-250 MM	3/4" BSP
300 MM	1" BSP

SPECIFICATION

- Strainers fitted with stainless steel perforated stainer element.
- Stainless Screens fitted into Strainers confirm to the high standards of materials.
- Face to Face : BS EN 558:2008.
- End connection : BS EN 1092-1.
- Testing Standard : BS EN 12266-2.

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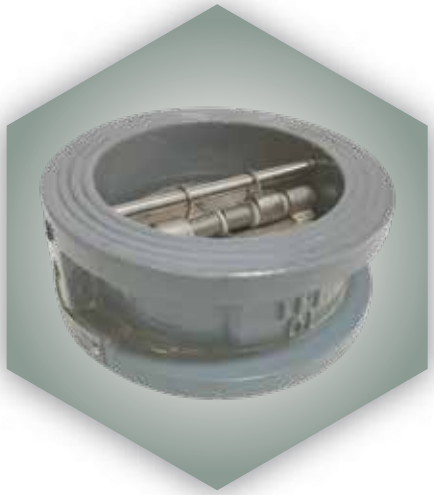
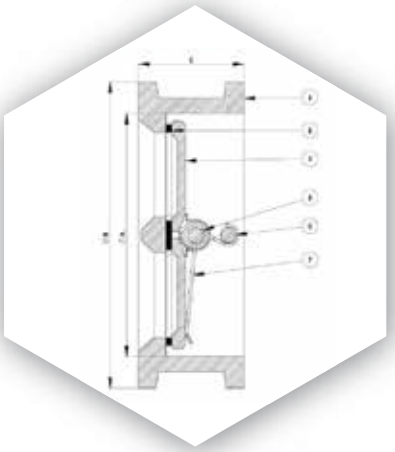
DI CHECK VALVE DOUBLE DOOR WAFER (CVW16)



FEATURES & BENEFITS

- Permit flows in one direction and close automaticaly if flow reverse size.
- Low wieght and short laying length saves initial cost, requires less space, and is easier to install.
- Independent springs provide quick-closing, non-slam shut off for reduced water hammer potential.
- Lightweight, spring-loaded discs have low cracking pressure for energy efficient operation.
- 200 Micron Fusion Bonded Epoxy Powder Coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- Featuring dual lightweight discs, responsive independent springs and a durable resilient seat for reliable flow activated operation with tight sealing and reduced water hammer potential.
- EPDM rubber seat to faciliate quiet/Silent operations and improve disc seating without any leakage.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	PLATES/DISC	NICKEL PLATED DUCTILE IRON : BS EN 1563 EN-JS1050
3	SEAT	RUBBER : EPDM
4	BODY/PLATE/SPRING BEARING	NYLON/PTFE : BS 6564
5	HINGLE PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
6	STOP PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
7	TORISION SPRING	STAINLESS STEEL : BS EN 10088-3 GR.1 4308
8	HINGE PIN RETAINERS	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
9	PACKING	RUBBER : EPDM
10	EYE BOLT	STEEL

DIMENSIONS & WEIGHTS

Size	A	B	C	Weight (kg)
65MM	81	109	54	2.80
80MM	99	130	57	3.20
100MM	116	160	64	4.60
125MM	143	194	70	7.40
150MM	170	214	76	8.50
200MM	219	270	95	16.10
250MM	273	328	108	25.50
300MM	324	378	143	39.50
305MM	360	447	184	72.50
400MM	406	511	191	94.50
450MM	457	546	203	120
500MM	508	603	213	150
600MM	610	714	222	210

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

SPECIFICATION

- Double door wafer pattern with spring assisted closure.
- Elastomer seat vulcanized to the body casting to ensure extended seal life.
- Suitable for mounting in horizontal and vertical pipelines.
- Ideal for fitting between flanges to BS EN 1092-2.
- Face to Face: BS EN558.
- Testing standard: BS EN 12266-2.

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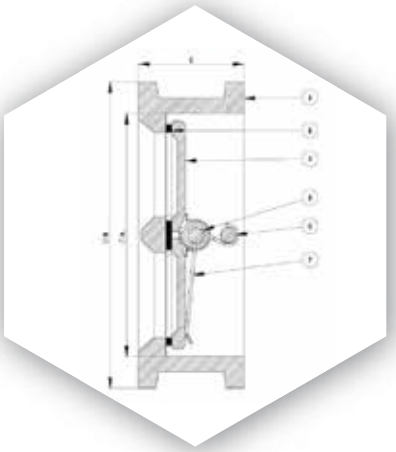
DI CHECK VALVE DOUBLE DOOR WAFER (CVW25)

FEATURES & BENEFITS

- Permit flows in one direction and close automaticaly if flow reverse size.
- Low wieght and short laying length saves initial cost, requires less space, and is easier to install.
- Independent springs provide quick-closing, non-slam shut off for reduced water hammer potential.
- Lightweight, spring-loaded discs have low cracking pressure for energy efficient operation.
- 200 Micron Fusion Bonded Epoxy Powder Coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- Featuring dual lightweight discs, responsive independent springs and a durable resilient seat for reliable flow activated operation with tight sealing and reduced water hammer potential.
- EPDM rubber seat to faciliate quiet/Silent operations and improve disc seating without any leakage.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	PLATES/DISC	NICKEL PLATED DUCTILE IRON : BS EN 1563 EN-JS1050
3	SEAT	RUBBER : EPDM
4	BODY/PLATE/SPRING BEARING	NYLON/PTFE : BS 6564
5	HINGLE PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
6	STOP PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
7	TORISION SPRING	STAINLESS STEEL : BS EN 10088-3 GR.1 4308
8	HINGE PIN RETAINERS	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
9	PACKING	RUBBER : EPDM
10	EYE BOLT	STEEL

DIMENSIONS & WEIGHTS

Size	A	B	C	Weight (kg)
65MM	81	109	54	2.80
80MM	99	130	57	3.20
100MM	116	160	64	4.60
125MM	143	194	70	7.40
150MM	170	214	76	8.50
200MM	219	270	95	16.10
250MM	273	328	108	25.50
300MM	324	378	143	39.50
305MM	360	447	184	72.50
400MM	406	511	191	94.50
450MM	457	546	203	120
500MM	508	603	213	150
600MM	610	714	222	210

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

SPECIFICATION

- Double door wafer pattern with spring assisted closure.
- Elastomer seat vulcanized to the body casting to ensure extended seal life.
- Suitable for mounting in horizontal and vertical pipelines.
- Ideal for fitting between flanges to BS EN 1092-2.
- Face to Face: BS EN558.
- Testing standard: BS EN 12266-2.

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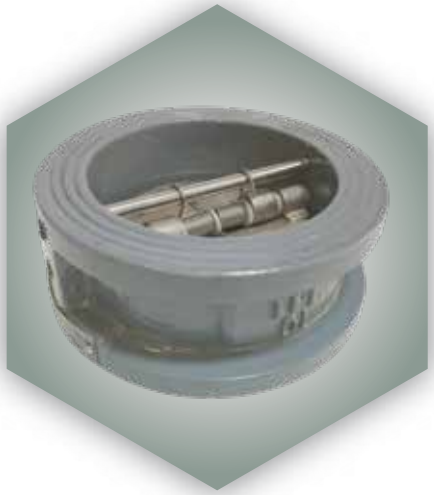
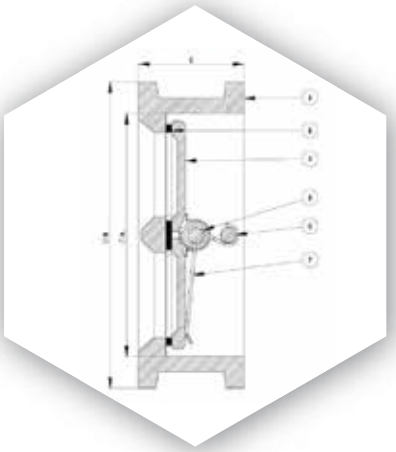
DI CHECK VALVE DOUBLE DOOR WAFER (CVWS16)



FEATURES & BENEFITS

- Permit flows in one direction and close automaticaly if flow reverse size.
- Low wieght and short laying length saves initial cost, requires less space, and is easier to install.
- Independent springs provide quick-closing, non-slam shut off for reduced water hammer potential.
- Lightweight, spring-loaded discs have low cracking pressure for energy efficient operation.
- 200 Micron Fusion Bonded Epoxy Powder Coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- Featuring dual lightweight discs, responsive independent springs and a durable resilient seat for reliable flow activated operation with tight sealing and reduced water hammer potential.
- EPDM rubber seat to faciliate quiet/Silent operations and improve disc seating without any leakage.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	PLATES/DISC	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
3	SEAT	RUBBER : EPDM
4	BODY/PLATE/SPRING BEARING	NYLON/PTFE : BS 6564
5	HINGLE PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
6	STOP PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
7	TORISION SPRING	STAINLESS STEEL : BS EN 10088-3 GR.1 4308
8	HINGE PIN RETAINERS	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
9	PACKING	RUBBER : EPDM
10	EYE BOLT	STEEL

DIMENSIONS & WEIGHTS

Size	A	B	C	Weight (kg)
65MM	81	109	54	2.80
80MM	99	130	57	3.20
100MM	116	160	64	4.60
125MM	143	194	70	7.40
150MM	170	214	76	8.50
200MM	219	270	95	16.10
250MM	273	328	108	25.50
300MM	324	378	143	39.50
305MM	360	447	184	72.50
400MM	406	511	191	94.50
450MM	457	546	203	120
500MM	508	603	213	150
600MM	610	714	222	210

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

SPECIFICATION

- Double door wafer pattern with spring assisted closure.
- Elastomer seat vulcanized to the body casting to ensure extended seal life.
- Suitable for mounting in horizontal and vertical pipelines.
- Ideal for fitting between flanges to BS EN 1092-2.
- Face to Face: BS EN558.
- Testing standard: BS EN 12266-2.

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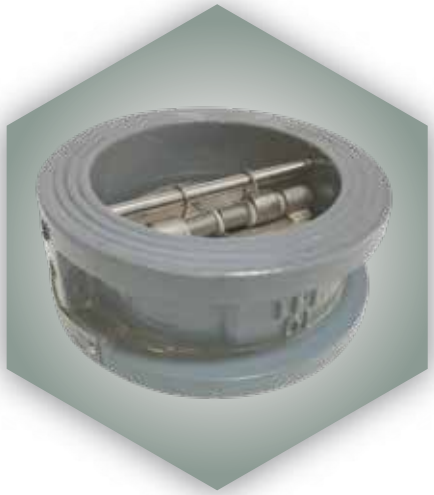
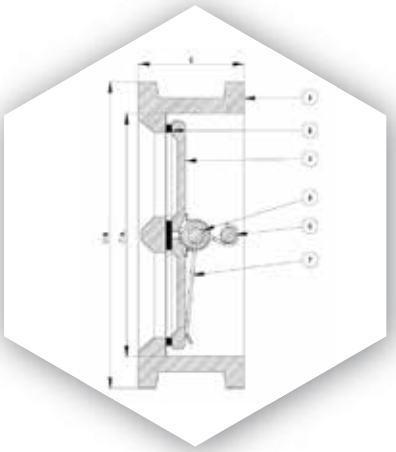
DI CHECK VALVE DOUBLE DOOR WAFER (CVWS25)



DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	B	C	Weight (kg)
65MM	81	109	54	2.80
80MM	99	130	57	3.20
100MM	116	160	64	4.60
125MM	143	194	70	7.40
150MM	170	214	76	8.50
200MM	219	270	95	16.10
250MM	273	328	108	25.50
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400MM	406	511	191	94.50
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500MM	508	603	213	150
600MM	610	714	222	210

FEATURES & BENEFITS

- Permit flows in one direction and close automaticaly if flow reverse size.
- Low wieght and short laying length saves initial cost, requires less space, and is easier to install.
- Independent springs provide quick-closing, non-slam shut off for reduced water hammer potential.
- Lightweight, spring-loaded discs have low cracking pressure for energy efficient operation.
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- EPDM rubber seat to faciliate quiet/Silent operations and improve disc seating without any leakage.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	PLATES/DISC	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
3	SEAT	RUBBER : EPDM
4	BODY/PLATE/SPRING BEARING	NYLON/PTFE : BS 6564
5	HINGLE PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
6	STOP PIN	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
7	TORISION SPRING	STAINLESS STEEL : BS EN 10088-3 GR.1 4308
8	HINGE PIN RETAINERS	STAINLESS STEEL : BS EN 10088-3 GR.1 4301
9	PACKING	RUBBER : EPDM
10	EYE BOLT	STEEL

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

SPECIFICATION

- Double door wafer pattern with spring assisted closure.
- Elastomer seat vulcanized to the body casting to ensure extended seal life.
- Suitable for mounting in horizontal and vertical pipelines.
- Ideal for fitting between flanges to BS EN 1092-2.
- Face to Face: BS EN558.
- Testing standard: BS EN 12266-2.

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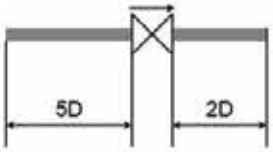
DUCTILE IRON VARIABLE ORIFICE DRV (DIVODRV16)

FEATURES & BENEFITS

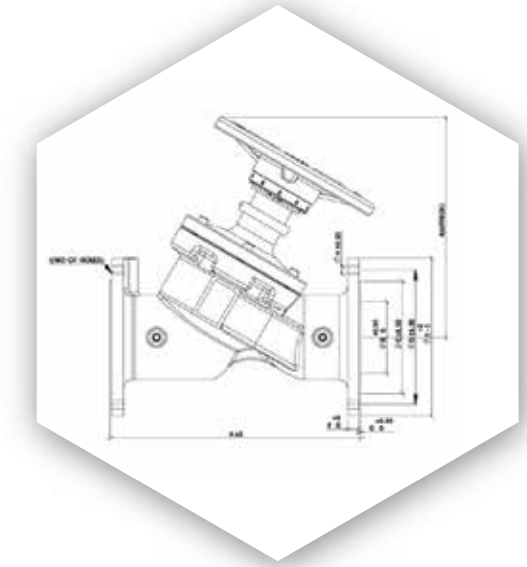
- Double regulating feature allow the valve to be used for isolation to be re-opened to its pre-set position to maintain required flow rate.
- Built-in measuring nipple (test point 3mm) for flow measurement based on Kv metholdology.
- Has sufficient authority to regulate flow in circuit incorporating the flow measuring device.

INSTALLATION

Always install the valve with the arrow on the body in the Same direction of flow. In order to avoid turbulence, which will effect the measuring accuracy, it is recommended to have a straight length of pipe up and down stream from the valve as shown (D-diameter of pipe)



DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1030
2	BONNET	DUCTILE IRON : BS EN 1563 EN-JS1030
3	BONNET GASKET	NON-ASBESTOS
4	DISC	EPDM RUBBER COATED DUCTILE IRON
5	DISC BUSH	BRONZE: BS EN 1982 CC 491K
6	STEM	STAINLESS STEEL : BS EN 10088-1 GR.1.4006
7	GLAND (65 TO 150MM)	BRASS
8	GLAND (200 TO 300 MM)	CAST IRON : BS EN 1561 EN 12165 CW 602N
9	GLAND NUT	DZR COPPER ALLOY : BS EN 12165 CW 602N
10	PACKING	NON-ASBESTOS
11	SEAT RING	BRONZE : BS EN 1982 CC 491K
12	HAND WHEEL	DUCTILE IRON : BS EN 1563 EN-JS1030
13	TEST POINT	DZR COPPER ALLOY : BS EN 12065 CW 602N

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	H	I	J	Weight (kg)
65 MM	290	65	118	145	200	16.00	3.00	19	4	262	14.30
80 MM	310	80	132	160	220	16	3	19	8	267	21.40
100MM	350	100	156	180	250	16	3	19	8	300	31.10
125MM	400	125	184	210	285	16	3	19	8	325	42
150MM	480	150	211	240	340	16	3	23	8	340	62
200MM	600	200	266	295	400	17	3	23	12	525	118
250MM	730	250	319	355	455	19	3	28	12	575	201
300MM	850	300	370	410	510	20.5	4	28	12	645	256

Bigger sizes can be provided as per request

SPECIFICATION

- Hand operated with micro-meter style indicator.
- Globe type Y-pattern with characterised throttled disc with equal percentage.
- Conforms to BS 7350 for flow measurement and regulations.
- Mounted on flow or return pipe.
- Shut-off function for service & repair.
- Design standard : BS7350.
- Testing standard : BS EN12266-2.

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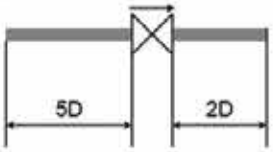
DUCTILE IRON VARIABLE ORIFICE DRV (DIVODRV25)

FEATURES & BENEFITS

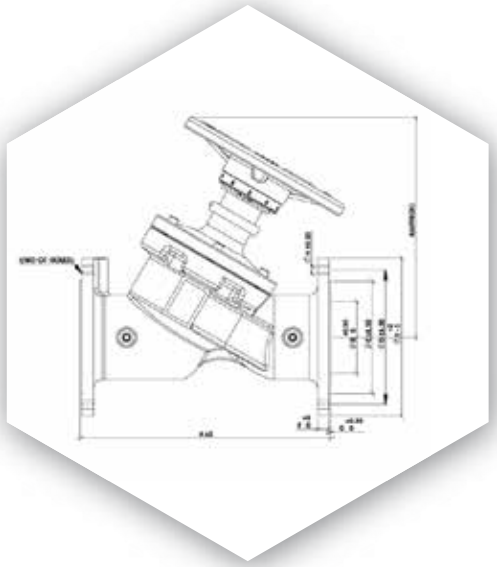
- Double regulating feature allow the valve to be used for isolation to be re-opened to its pre-set position to maintain required flow rate.
- Built-in measuring nipple (test point 3mm) for flow measurement based on Kv metholdology.
- Has sufficient authority to regulate flow in circuit incorporating the flow measuring device.

INSTALLATION

Always install the valve with the arrow on the body in the Same direction of flow. In order to avoid turbulence, which will effect the measuring accuracy, it is recommended to have a straight length of pipe up and down stream from the valve as shown (D-diameter of pipe)



DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS1030
2	BONNET	DUCTILE IRON : BS EN 1563 EN-JS1030
3	BONNET GASKET	NON-ASBESTOS
4	DISC	EPDM RUBBER COATED DUCTILE IRON
5	DISC BUSH	BRONZE: BS EN 1982 CC 491K
6	STEM	STAINLESS STEEL : BS EN 10088-1 GR.1.4006
7	GLAND (65 TO 150MM)	BRASS
8	GLAND (200 TO 300 MM)	CAST IRON : BS EN 1561 EN 12165 CW 602N
9	GLAND NUT	DZR COPPER ALLOY : BS EN 12165 CW 602N
10	PACKING	NON-ASBESTOS
11	SEAT RING	BRONZE : BS EN 1982 CC 491K
12	HAND WHEEL	DUCTILE IRON : BS EN 1563 EN-JS1030
13	TEST POINT	DZR COPPER ALLOY : BS EN 12065 CW 602N

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

DIMENSIONS & WEIGHTS

Size	A	B	C	D	E	F	G	H	I	J	Weight (kg)
65 MM	290	65	118	145	200	16.00	3.00	19	4	262	14.30
80 MM	310	80	132	160	220	16	3	19	8	267	21.40
100MM	350	100	156	180	250	16	3	19	8	300	31.10
125MM	400	125	184	210	285	16	3	19	8	325	42
150MM	480	150	211	240	340	16	3	23	8	340	62
200MM	600	200	266	295	400	17	3	23	12	525	118
250MM	730	250	319	355	455	19	3	28	12	575	201
300MM	850	300	370	410	510	20.5	4	28	12	645	256

Bigger sizes can be provided as per request

SPECIFICATION

- Hand operated with micro-meter style indicator.
- Globe type Y-pattern with characterised throttled disc with equal percentage.
- Confirms to BS7350 for flow measurement and regulations.
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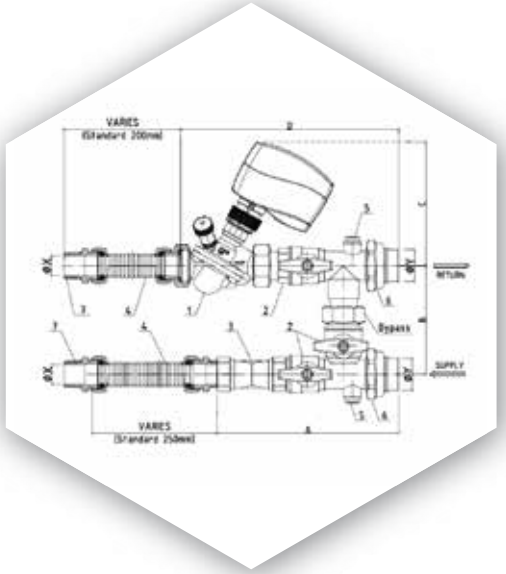
FAN COIL UNIT KIT (FCU20B/FCU20/FCU25)

DIMENSIONAL DRAWINGS



DIMENSIONS & WEIGHTS

Size	A	B	C	D	Weight (kg)
65MM	81	109	54	54	2.80
80MM	99	130	57	57	3.20
100MM	116	160	64	64	4.60
125MM	143	194	70	70	7.40

*Above weight are without PICV and Flexible.
Note Thre act BS EN 10226-2 ISO 7-1 (BS21)
*M-Male,F-Female.

FEATURES & BENEFITS

- The unit allows regulating , flushing & isolating operations.
- Fully ready mounted product, fast installation connection.
- Flexible connections, the whole assembely can be adjusted in site for maximum convenience & easy accessibility with the space available.
- Minimum commissioning, only to pre- set flow rate for control valve (PIBCV) after installation of the systems.
- Possible to set all positions, excellent for insulation, possibilities for flushing through PIBCVs due to hollow cone design.
- Factory pressure tested at 30 bar certified by 3rd party.
- Optimizing the variable flow systems to give maximum comfort & minimum energy consumption.
- Minimal design, easy selection & very compact design for easy installations.
- Strainer with drain valve for easy draining, eliminates opening of strainer plug.
- BSRIA tested for PIBCV's on performances at part load conditions for all sizes.
- Strainer are with 20MESH

SELECTION

Size	Flow Rate Range(Min-Max)		
	1/h	1/s	gpm
DN 20 X 15 LF	25-275	0.006-0.076	0.110-1.21
DN 20 X 15	90-450	0.025-0.125	0.4-1.98
DN 20 X20	180-900	0.05-0.25	0.79-3.96
DN 25 X25	340-1700	0.094-0.472	1.5-7.49

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	AB-QM VALVE (PIBCV)	DZR BRASS:BS CZ 132
2	90-450	DZR BRASS:BS CZ 132
3	STRAINER WITH DRAIN COCK:	
	•BODY	DZR BRASS:BS CZ 132
	•SCREEN (PERFORATION 0.75 MM)	STAINLESS STEEL: BS 1.4301
4	FLEXIBLE CONNECTION(CORRUGATED)	STAINLESS STEEL: BS 1.4301
5	BLIND CAP	DZR BRASS:BS CZ 132
6	PIPE CONNECTOR:	
	•UNION	DZR BRASS:BS CZ 132
	•O-RING	EPDM
	•HEXNUT	•HEXNUT
7	FCU CONNECTOR:	
	•MALE ADAPTOR	STAINLESS STEEL : BS 1.4301
	•SEALING GASKET	SILICON RUBBER
	•O-RING	EPDM
	•SWIVEL NUT	STAINLESS STEEL : BS 1.4301

PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	- 10 to 120 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

SPECIFICATION

- Application : Fan coil unit, close control unit.
- Working Medium: Water and water mixture for closed cooling systems.
- PIBCV Differential pressure Range : 16-600 kPa.
- PIBCV Control Characteristics : Linear/Equal Percentage.
- Different flexible length (300 MM,400 MM, 450 MM and 500 MM are available upon request.
- Braided flexibles upon request.
- DP Controller: EPDM Diaphragm.
- End connections : Threaded.

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THERMAL INSULATION (EPP20B/EPP 20/ EPP 25)

FEATURES & BENEFITS

- Minimum condensation due to maximum rapport with flow mate.
- Easy installation & minimum workmanship.
- Made specifically for the FCU Link Flow mate.
- Standard in dimension and design for all Flow mates.
- Suitable with ambient temperature.
- Hermetic to moisture.
- Constrict proof.
- Reserve model EPP insulation.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1.	EPP INSULATION	EXPANDED POLYPROPYLENE

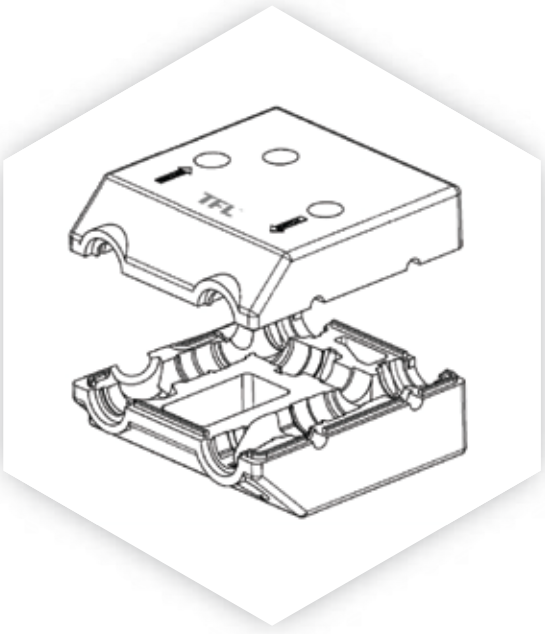
PRESSURE / TEMPERATURE RATING

Temperature	25 to 80 °c

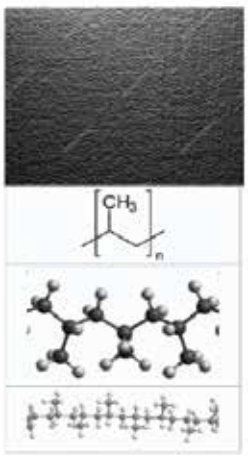
SPECIFICATION

- Density (Kg/m): 60
- Thermal conductivity W(m-k): 0.037
- Tensile Strength(Kpa):620
- Tensile Elongation % :14
- Compressive strength @ 50 % Strain (kpa) : 490

DIMENSIONAL DRAWINGS



CHEMICAL FORMULA



DIMENSIONS & WEIGHTS

Size	L	W	~ H	Weight (kg)
20x15 MM	210	178	140	0.25
20 MM	210	178	140	0.25
25 MM	210	178	140	0.45

Note : Above weight are only for EPP insulation Box

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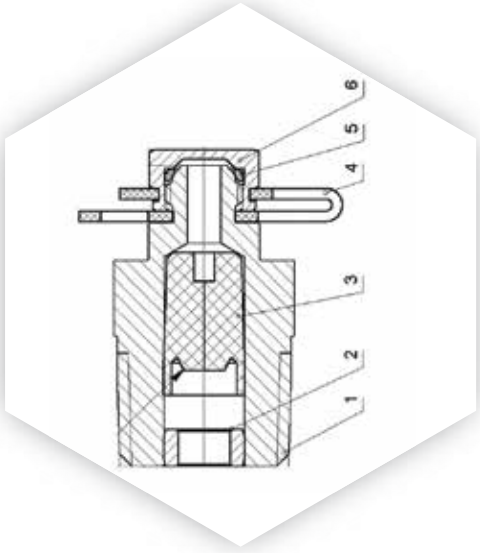
TEST POINT (TFTP20)

FEATURES & BENEFITS

- Plastic cap retainer
- DZR Brass body
  EPDM diaghragm/core.
- Strategically placed test points allow access to live fluid systems for pressure and temperature measurement

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY ½ TIFT	DZR BASS CZD2A
2	CORE RETAINER	DZR BRASS CZ132A
3	CORE	EP 5518F (HA55+5)
4	STRAP	PLASTIC
5	O- RING	EPDM (HA70+5)
6	CAP	DZR BRASS CZ132A

PRESSURE / TEMPERATURE RATING

Pressure Rating	24 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar

DIMENSIONS & WEIGHTS

Size	A	H	Weight (kg)
1/4%3/8"	36MM	14MM	0.05
1/2"	39MM	22MM	0.09

SPECIFICATION

- The single piece DZR houses a uniquely designed elastomeric core, providing excellent sealing performance and wear resistance
- Double sealing on the cap is provided by precision metal to metal jointing backed up by a resilient O- Ring, allowing convenient, positive finger tightening.

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