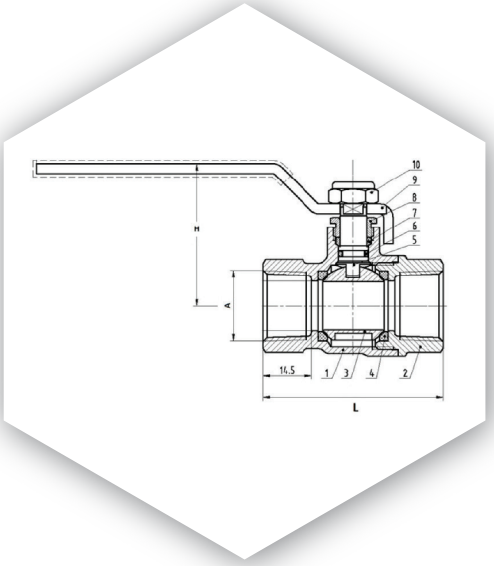
PB2 BRONZE BALL VALVE (PLBNBV25)

FEATURES & BENEFITS

- Light, compact and easy to install and operate.
- Quarter Turn rotary motion ball to stop and start the flow.
- Fast action shut-off, Quarter turn to open or close.
- Perfect tight shut-off and Improved leak protection.
- More resistant to damage during installation.
- Effcient stop valves with fluid flow in either direction.
- The straight through design offers less resistance to flow and reduces pressure drop to a minimum.
- Robust construction for long life and high quality bronze body
- Full bore design to facilitate optimal flow rates with minimum turbulence.
- Lead content of the Valve PB<2% ensure suitability of the material for potable water applications.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	PHOSPHOR BRONZE (BS:1400:PB2)
2	BONNET	PHOSPHOR BRONZE (BS:1400:PB2)
3	BALL	STAINLESS STEEL (SS 304)
4	SEAT	PTFE
5	STEM	BRASS (CW617N)
6	O-RING	NBR
7	PACKING	PTFE
8	PACKING NUT	HPb57-3
9	HANDLE	Q235A
10	HEX NUT	S.S304

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 140 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

DIMENSIONS & WEIGHTS

Size	A	L	H	Weight (kg)
15 MM	1/2" BSP	54	42.5	0.20
20 MM	3/4" BSP	62	42.5	0.35
25MM	1" BSP	74	70	0.64
32MM	1-1/4" BSP	85	82	1.13
40MM	1-1/2" BSP	99	92	1.71
50MM	2" BSP	125	105	2.47

SPECIFICATION

- Ball made of Stainless steel, PTFE seats and stem seal.
- Lever made of mild steel with plastic coating.
- Lever operated.
- Design: BS EN 12288.
- End connection theraded to BS EN 10226-2 (ISO 7-1).
- Testing standard: BS EN 12266-2.

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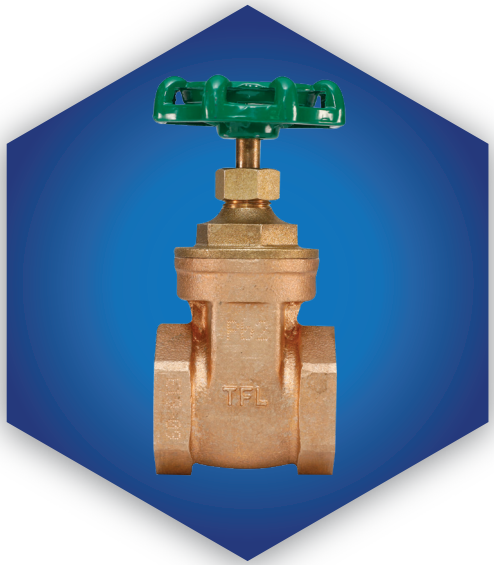
PB2 BRONZE GATE VALVE (PLBNGV20)



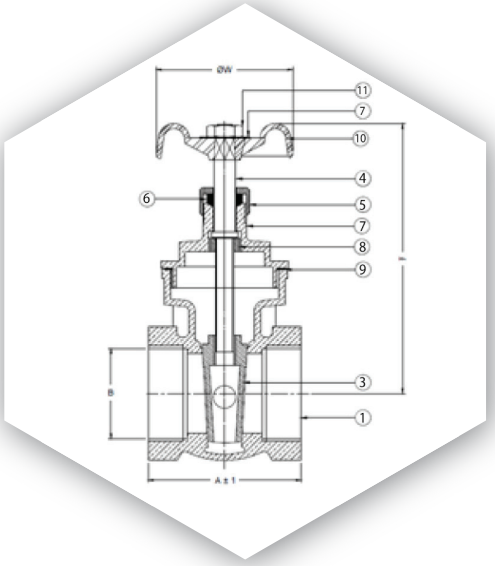
FEATURES & BENEFITS

- Non-Rising is usefull when shut-off is required and when space is concern.
- Solid Wedge Disc, integral seat and bi-directional.
- Female threaded ends allow for ease installation.
- Screw-in bonnet service where frequent maintenance is required.
- Lead content of the Valve P<2% ensure suitability of the material for potable water applications.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	PHOSPHOR BRONZE(BS:1400:PB2)
2	BONNET	PHOSPHOR BRONZE(BS:1400PB2)
3	EWDGE	PHOSPHOR BRONZE(BS:1400:PB2)
4	STEM	PHOSPHOR BRONZE(BS:1400:PB2)
5	GLAND NUT	BRASS (CZ 144 OF BS:2874)
6	GLAND PACKING	TEFLON (PTFE)
7	NAME PLATE	ALUMINIUM
8	CHECK NUT	BRASS (CZ 144 OF BS:2874)
9	PACKING	TEFLON (PTFE)
10	HAND WHEEL	ALUMINIUM
11	NUT	MILD STEEL

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

DIMENSIONS & WEIGHTS

Size	A	L	H	Weight (kg)
15 MM	1/2" BSP	46	82	0.27
20 MM	3/4" BSP	50	85	0.37
25MM	1" BSP	55	101	0.49
32MM	1-1/4" BSP	61	115	0.89
40MM	1-1/2" BSP	63	126	0.94
50MM	2" BSP	71	145	1.38

SPECIFICATION

- Solid wedge disc, Non-rising stem, screwed in bonnet.
- single piece wedge and Hand wheel operated.
- End connection taper threaded to BS EN 10226 (ISO 7-1).
- Rating: PN20.
- Design: BS EN 12288.
- Testing: EN 12266-1.
- Testing standard: BS EN 12266-2.

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PB2 GATE VALVE RISING STEM (PLBNGVRS20)

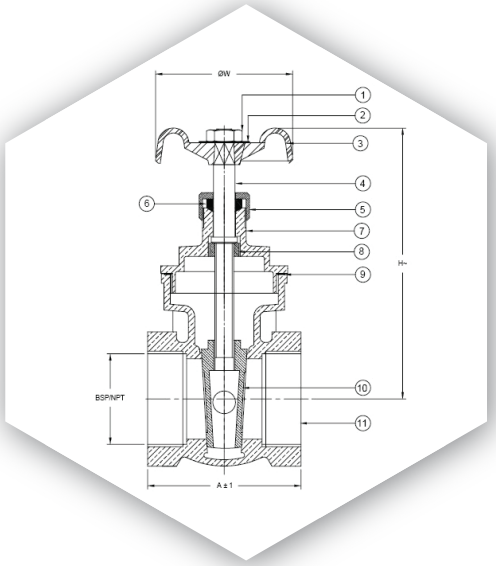
FEATURES & BENEFITS

- 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.	Part Name	Material
1	BODY	PHOSPHOR BRONZE(BS:1400:PB2)
2	BONNET	PHOSPHOR BRONZE(BS:1400PB2)
3	EWDGE	PHOSPHOR BRONZE(BS:1400:PB2)
4	STEM	PHOSPHOR BRONZE(BS:1400:PB2)
5	GLAND NUT	BRASS (CZ 144 OF BS:2874)
6	GLAND PACKING	TEFLON (PTFE)
7	NAME PLATE	ALUMINIUM
8	CHECK NUT	BRASS (CZ 144 OF BS:2874)
9	PACKING	TEFLON (PTFE)
10	HAND WHEEL	ALUMINIUM
11	NUT	MILD STEEL

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 120 °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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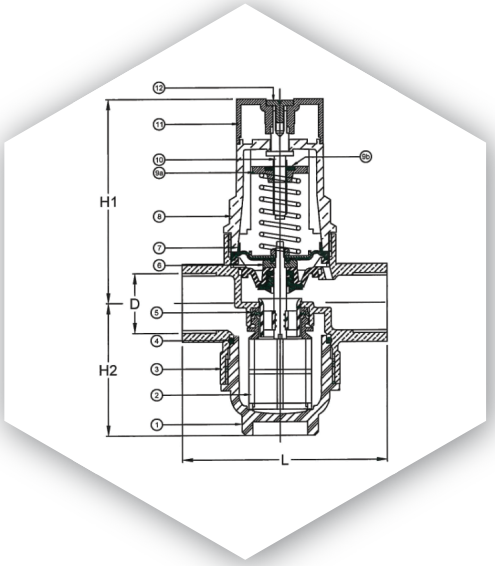
PB2 PRESSURE REDUCING VALVES (PLBNPRV25)

FEATURES & BENEFITS

- PRVs enable control of pressure from boosted cold water supplies to match site requirements.
- Light, compact in constructions & short installed length.
- No influence on outlet pressure by fluctuating inlet pressure.
- Screw with knob for setting outlet pressure.
- The adjustment spring is not in contact with the medium.
- Greater flow performance with lower fall off pressure for consistent operation.
- Excellent controllability.
- Lead content of the Valve PB≤2% ensure suitability of the material for potable water applications.

DIMENSIONAL DRAWINGS



INLET	OUTLET
6 to 25 bar	2 to 10 bar

DIMENSIONS & WEIGHTS

Size	A	L	H	H2
15 MM	1/2" BSP	82	8935	58
20 MM	3/4" BSP	90	89.5	58
25MM	1" BSP	98	111	64.5
32MM	1-1/4" BSP	130.5	174	126.5
40MM	1-1/2" BSP	130.5	174	126.5
50MM	2" BSP	140.5	174	126.5

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	CAP	PHOSPHOR BRONZE (BS 1400 PB2)
2	STRAINER	NYLON-6
3	BODY	PHOSPHOR BRONZE (BS 1400 PB2)
4	O RING	RUBBER (NBR)
5	U RING	RUBBER (NBR)
6	WASHER	BRASS (CZ 114 OF BS : 2872/2874)
7	GASKET RING	NYLON-6
8	BONNET	NYLON-6
9A	SPRING DISC	NYLON-6
9B	SPRING DISC NUT	BRASS (CZ 114 OF BS : 2872/2874)
10	SPINDLE	BRASS (CZ 114 OF BS : 2872/2874)
11	ADJUSTABLE RING	NYLON-6
12	SCREW	STAINLESS STEEL (AISI 304)
13	O RING	RUBBER (NBR)
14	DISC NUT	NYLON-6
15	SEAT RING	RUBBER (NBR)
16	DIAPHRAGM	RUBBER (NBR)
17	LOWER SPRING DICS	MILD STEEL
18	GUIDE	NYLON-6
19	SPRING	SPRING STEEL
20A	DISC	NYLON-6
20B	S.S SPINDLE	STAINLESS STEEL (AISI 304)
21	GAUGE PLUGE NUT	NYLON-6
22	GASKET	TEFLON (PTFE)
23	BONNET GASKET	TEFLON (PTFE)
24	HEX NUT	BRASS (CZ 114 OF BS : 2872/2874)

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to +115 °C

TEST PRESSURES

Shell	37.5 bar

SPECIFICATION

- Integral fine mesh stainless filter.
- Recommend that isolation valves are fitted upstream and downstream of the valve to enable isolation for cleaning of filter.
- Internal threaded connection.

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PB2 BRONZE Y-STRAINER (PLBNST20)

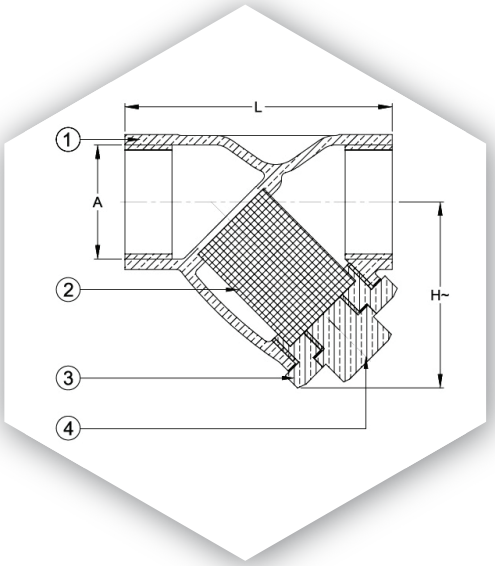
FEATURES & BENEFITS

- 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.
- Lead content of the Valve PB≤2% ensure suitability of the material for potable water applications.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	PHOSPHOR BRONZE (BS:1400:PB2)
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

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

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.

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PB2 BRONZE SWING CHECK VALVE (PLBNSCV20)

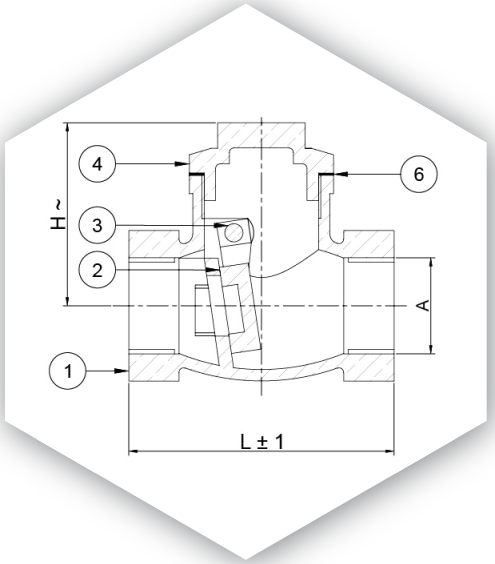
FEATURES & BENEFITS

- 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 mouting in horizontal and vertical pipe (follow the Arrow Upwards)
- Lead content of the Valve PB≤2% ensure suitability of the material for potable water applications.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	PHOSPHOR BRONZE (BS:1400:PB2)
2	DISC	PHOSPHOR BRONZE (BS:1400:PB2)
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

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	20 bar
Temperature	-10 to 100 °C

TEST PRESSURES

Shell	30 bar
Seat	22 bar

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

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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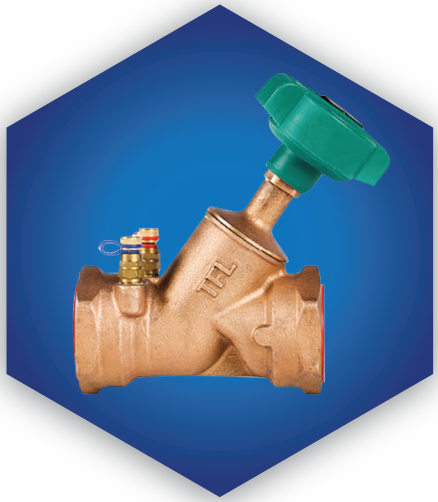
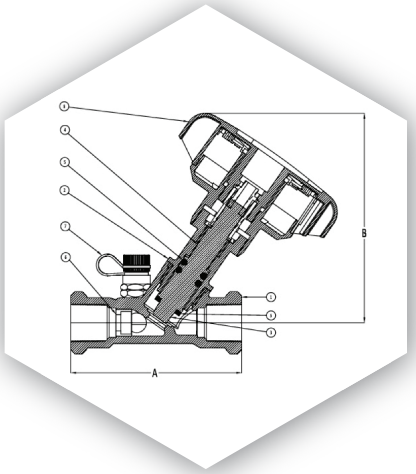
PB2 BRONZE FIXED ORIFICE DOUBLE REGULATING VALVE (PLBNFODRV25)



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.
- Lead content of the Valve PB≤2% ensure suitability of the material for potable water applications.

DIMENSIONAL DRAWINGS



MATERIAL SPECIFICATION

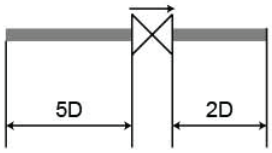
Part No.	Part Name	Material
1	BODY	PHOSPHOR BRONZE (BS:1400:PB2)
2	BONNET	DZR COPPER ALLOY: BS EN12165CW 602N
3	DISC	PHOSPHOR BRONZE (BS:1400:PB2)
4	STEM	DZR COPPER ALLOY: BS EN 12165 CW 602 N
5	O- RING SEAL	RUBBER – EPDIM
6	ORIFICE INSERT	PHOSPHOR BRONZE (BS:1400:PB2)
7	TEST POINT	DZR COPPER ALLOY: BS EN 12165 CW 602N
8	HANDWHEEL	PLASTIC

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 130 °C

INSTALLATION

Always install the valve with the arrow on the body in the same directions of flow. In order to avoid turbulence, which will affect 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)



TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

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

SPECIFICATION

- Hand wheel operated with micrometre indication.
- Y-Pattern globe type design.
- Conforms to BS 73 50 for flow measurments and regulationed.
- Y – pattern globe Having characteristics throttling disc with 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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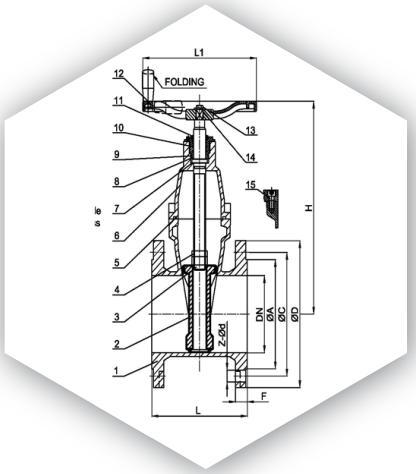
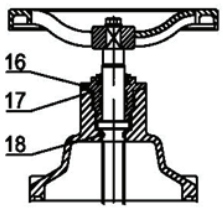
DUCTILE IRON RESILIENT SEATED GATE VALVE (PLDIGV16)

FEATURES & BENEFITS

- The Gate Valves are with hand wheel or square cap.
- Full and straight bore in order to avoid turbulence, loss of head and VENTURI Effect.
- Flanges undrilled on request
- 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.
- Bodies are with Epoxy coating, providing excellent corrosion and wear resistance to the valve's surface. Epoxy coating offers Chemical Resistance Weather ability -Abrasion Resistance Impact Resistance.

DIMENSIONAL DRAWINGS





MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON (EN JS 1050)
2	WEDGE	DUCTILE IRON + EPDM
3	STEM	STEEL (BS 970 420S37)
4	STEM NUT	RED BRASS (C83600)
5	SEALING RING	EPDM
6	BONNET	DUCTILE IRON (EN JS 1050)
7	GASKET	RED BRASS (C83600)
8	GLAND	RED BRASS (C83600)
9	O-RING	EPDM
10	O-RING	EPDM
11	DUST RING	EPDM
12	HAND WHEEL	DUCTILE IRON (EN JS 1050)
13	BOLT	STAINLESS STEEL (BS 970 304 S15)
14	WASHER	STAINLESS STEEL (BS 970 304 S15)
15	SCREW	STAINLESS STEEL (BS 970 304 S15)
16	SCREW	STAINLESS STEEL (BS 970 304 S15)
17	O-RING	EPDM
18	O-RING	EPDM

PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to +85 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

DIMENSIONS & WEIGHTS

Size	A	C	D	L		H1	Z-Ød	Wt. kg.
65 MM	118	145	185	190	160	230	4-Ø19	13
80 MM	132	160	200	203	200	276	8- Ø 19	15
100 MM	156	180	220	229	200	311	8- Ø 19	19
125 MM	184	210	250	254	250	364	8- Ø 19	25
150 MM	211	240	285	267	250	413	8- Ø 23	33
200 MM	266	295	340	292	280	503	12- Ø 23	51

SPECIFICATION

- Ductile Iron with integral flanges.
- Inside screw pattern with non-rising stem. Hand wheel operated.
- End connection: EN1092-2, PN16.
- Temperature operating range: -10 to 85°C.
- Pressure Rating: PN16.
- Design: BS 5163.
- Testing: EN 12266-1.
- Face to Face: BS EN 558-1 SERIES-3.

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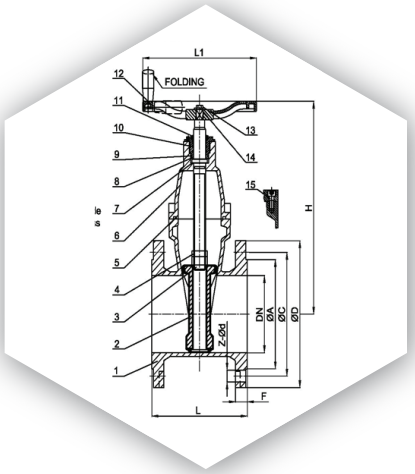
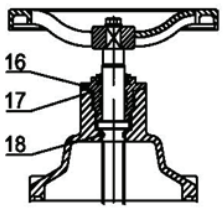
DUCTILE IRON RESILIENT SEATED GATE VALVE (PLDIGV25)

DIMENSIONAL DRAWINGS





DIMENSIONS & WEIGHTS

Size	A	C	D	L		H1	Z-Ød	Wt. kg.
65 MM	118	145	185	190	160	230	4-Ø19	13
80 MM	132	160	200	203	200	276	8- Ø 19	15
100 MM	156	180	220	229	200	311	8- Ø 19	19
125 MM	184	210	250	254	250	364	8- Ø 19	25
150 MM	211	240	285	267	250	413	8- Ø 23	33
200 MM	266	295	340	292	280	503	12- Ø 23	51

FEATURES & BENEFITS

- The Gate Valves are with hand wheel or square cap.
- Full and straight bore in order to avoid turbulence, loss of head and VENTURI Effect.
- Flanges undrilled on request.
- 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.
- Bodies are with Epoxy coating, providing excellent corrosion and wear resistance to the valve's surface. Epoxy coating offers Chemical Resistance Weather ability -Abrasion Resistance Impact Resistance.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON (EN JS 1050)
2	WEDGE	DUCTILE IRON + EPDM
3	STEM	STEEL (BS 970 420S37)
4	STEM NUT	RED BRASS (C83600)
5	SEALING RING	EPDM
6	BONNET	DUCTILE IRON (EN JS 1050)
7	GASKET	RED BRASS (C83600)
8	GLAND	RED BRASS (C83600)
9	O-RING	EPDM
10	O-RING	EPDM
11	DUST RING	EPDM
12	HAND WHEEL	DUCTILE IRON (EN JS 1050)
13	BOLT	STAINLESS STEEL (BS 970 304 S15)
14	WASHER	STAINLESS STEEL (BS 970 304 S15)
15	SCREW	STAINLESS STEEL (BS 970 304 S15)
16	SCREW	STAINLESS STEEL (BS 970 304 S15)
17	O-RING	EPDM
18	O-RING	EPDM

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to +85 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

SPECIFICATION

- Ductile Iron with integral flanges.
- Inside screw pattern with non-rising stem. Hand wheel operated.
- End connection: EN1092-2, PN25.
- Temperature operating range: -10 to 85°C.
- Pressure Rating: PN25.
- Design: BS 5163.
- Testing: EN 12266-1.
- Face to Face: BS EN 558-1 SERIES-3.

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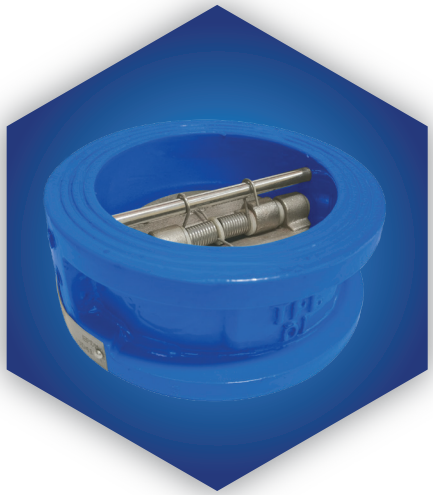
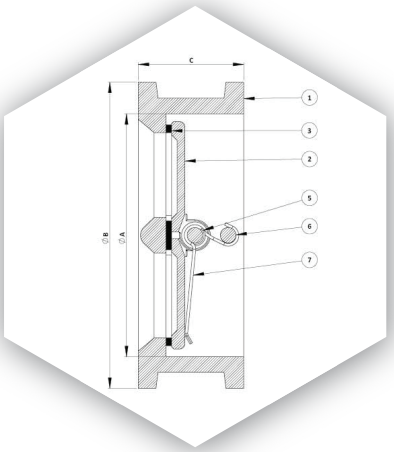
DUCTILE IRON CHECK VALVE - WAFER TYPE (PLDICVW16)



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
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

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.

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	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 horizontol 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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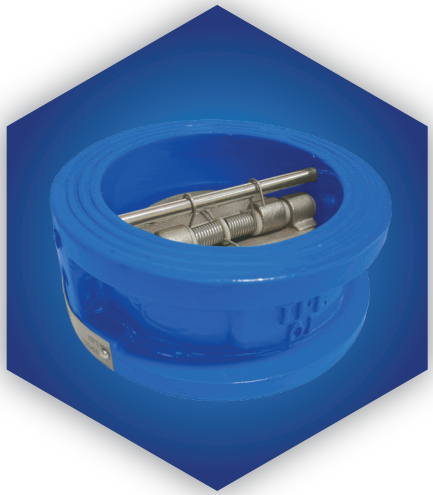
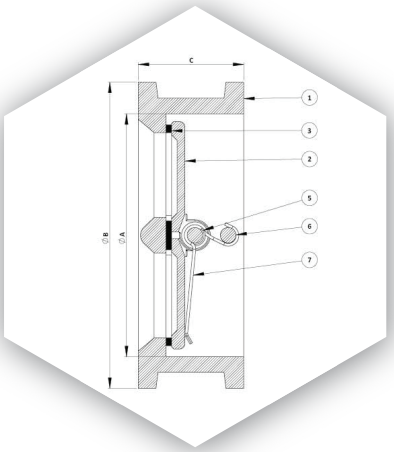
DUCTILE IRON CHECK VALVE - WAFER TYPE (PLDICVW25)



DIMENSIONAL DRAWINGS



FEATURES & BENEFITS

- Permit flows in one direc tion 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.

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	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 horizontol 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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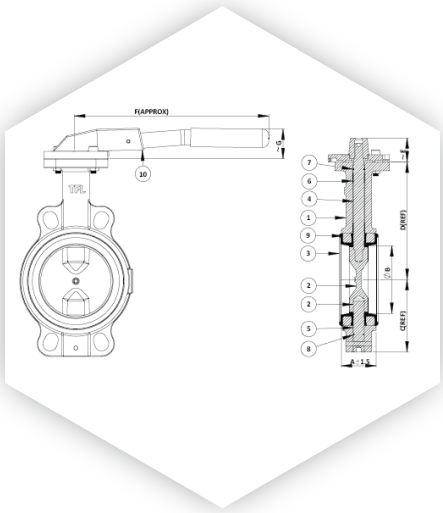
DUCTILE IRON BUTTERFLY VALVE WAFER TYPE (PLDIBV16-W)

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	PLBFX 16 - W
STAINLESS STEEL DISC	PLBFX 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 (Torgue 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	DI NICKEL PLATING : BS EN 1563 EN-JS1030
3	DISC	STAINLESS STEEL : BS EN 10088-1 GR.1.4057
4	SEAT	RUBBER : EPDM
5	SHAFT	STAINLESS STEEL : BS EN 10088-1GR.1.4006
6	PIVOT SHAFT	SS : BS EN 10088-1 GR.1.4006
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 torgue 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 TYPE (PLDIBV25-W)

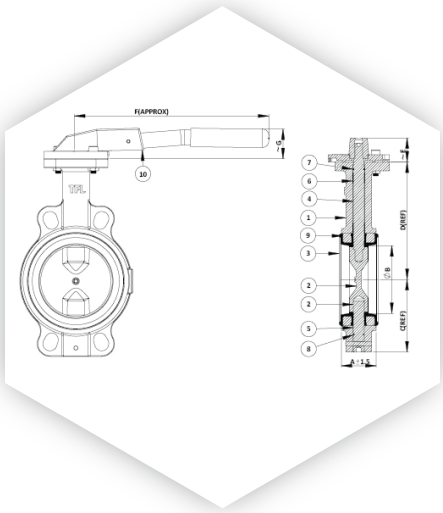
VALVE SELECTION

PART NAME	EPDM LINER
NP DUCTILE IRON DISC	PLBFX 25 - W
STAINLESS STEEL DISC	PLBFX 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 (Torgue 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-JS1030
2	DISC	DI NICKEL PLATING : BS EN 1563 EN-JS1030
3	DISC	STAINLESS STEEL : BS EN 10088-1 GR.1.4057f
4	SEAT	RUBBER : EPDM
5	SHAFT	STAINLESS STEEL : BS EN 10088-1GR.1.4006
6	PIVOT SHAFT	SS : BS EN 10088-1 GR.1.4006
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

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

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 torgue 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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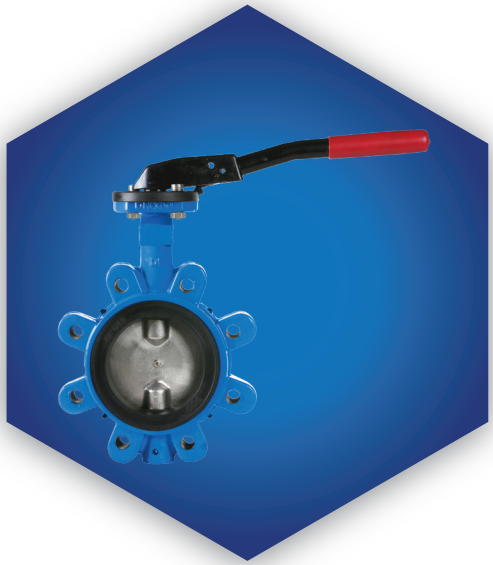
DUCTILE IRON BUTTERFLY VALVE LUGGED TYPE (PLDIBV25-L)



VALVE SELECTION

SPECIFICATION	PART NUMBER
NP DUCTILE IRON DISC	PLBFX 16 - L
STAINLESS STEEL DISC	PLBFX 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 operated.
- 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.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	DISC	DUCTILE IRON NICKEL PLATE : 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

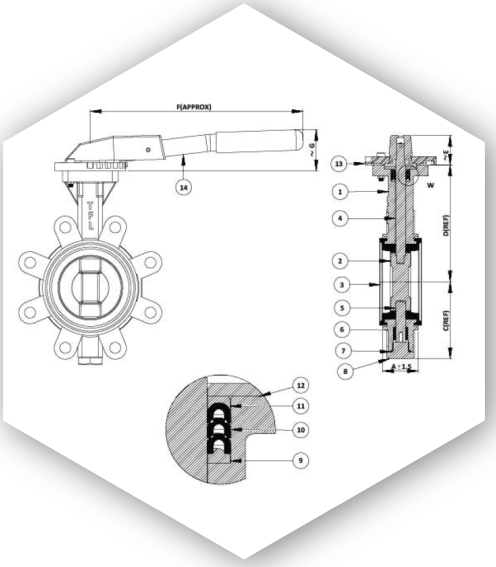
PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

DIMENSIONAL DRAWINGS



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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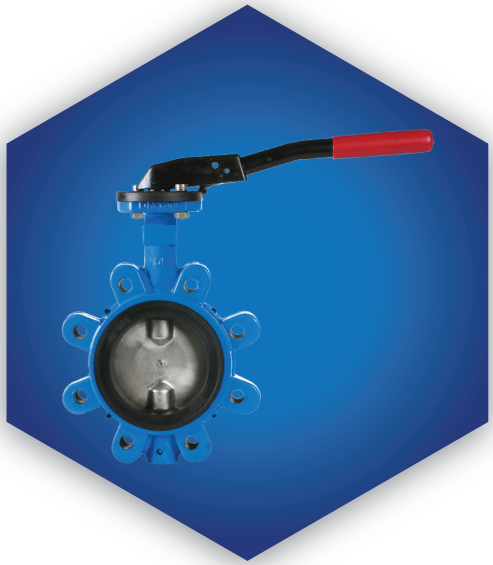
DUCTILE IRON BUTTERFLY VALVE LUGGED TYPE (PLDIBV16-L)



VALVE SELECTION

SPECIFICATION	PART NUMBER
NP DUCTILE IRON DISC	PLBFX 25 - L
STAINLESS STEEL DISC	PLBFX 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.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	DUCTILE IRON : BS EN 1563 EN-JS 1050
2	DISC	DUCTILE IRON NICKEL PLATE : 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

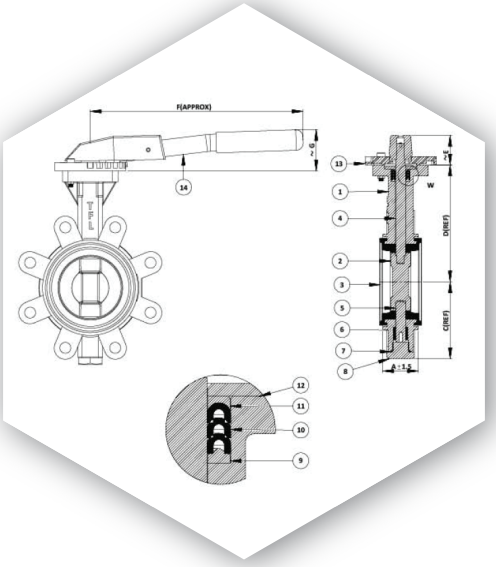
PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 120 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

DIMENSIONAL DRAWINGS



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
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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 (PLDIYST16)

FEATURES & BENEFITS

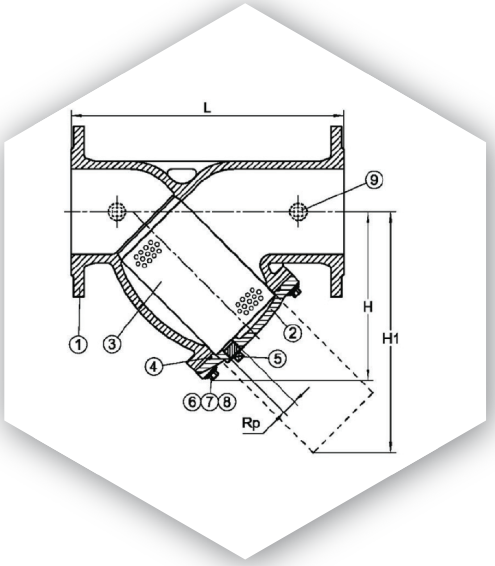
- Perforated stainless steel screen & Robust design,
- Low flow resistance and Offers 35% open Area.
- Streamlined flow contours minimize pressure drop.
- Compact design with short face to face.
- Asbestos-free non-stick gasket.
- These strainers must not be used in an end of line application without a blanking flange being fitted on the downstream end of the valve.
- Bodies are with Epoxy coating, providing excellent corrosion and wear resistance to the valve's surface. Epoxy coating offers Chemical Resistance Weather ability -Abrasion Resistance Impact Resistance.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1*	BODY	DUCTILE IRON (BSEN1563 EN-GJS-1050)
2*	COVER	DUCTILE IRON (BSEN1563 EN-GJS-1050)
3*	SCREEN	STAINLESS STEEL (BS EN 10088 *5Cr Ni18-10)
4*	PACKING	EPDM
5*	DRAIN PLUG	STAINLESS STEEL (BS EN 10088 *5Cr Ni18-10)
6*	BOLT	CARBON STEEL GAVANISED (EN 10083-2C45)
7*	SPRING WASHER	CARBON STEEL GAVANISED (EN 10132-4C67S)
8*	WASHER	CARBON STEEL GAVANISED (EN 10083-2C45)
9*	TEST PLUG	STAINLESS STEEL (BS EN 10088 *5Cr Ni18-10)

NOTE : Above Part No. with"*"is the Components which will touch with media.

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	16 bar
Temperature	-10 to 85 °C

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

DIMENSIONS & WEIGHTS

Size	L	H	H1	R1 (Drain plug)	Mesh Dia	Weight (kg)
65 MM	290	137	205	3/8"	1.5	14.5
80 MM	310	152	238	3/8"	1.5	17.5
100 MM	350	205	318	3/8"	1.5	22.5
125 MM	400	244	358	3/8"	1.5	24
150 MM	480	269	380	3/8"	1.5	54
200 MM	600	341	508	1/2"	2.5	97.5

SPECIFICATION

- Strainers fitted with stainless steel perforated strainer.
- Coating/panits: Epoxy powder coated.
- End connection: BS EN 1092-2 PN16.
- Rating: PN16.
- Testing: EN 12266-1.
- Face to Face: BS EN 558-1.

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DUCTILE IRON Y-STRAINER (PLDIYST25)

FEATURES & BENEFITS

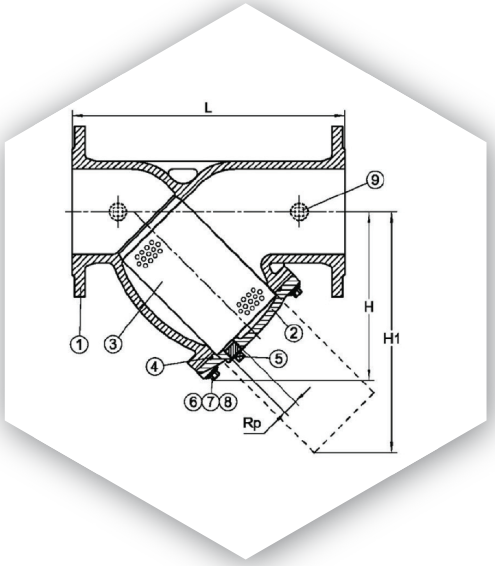
- Perforated stainless steel screen & Robust design,
- Low flow resistance and Offers 35% open Area
- Streamlined flow contours minimize pressure drop
- Compact design with short face to face
- Asbestos-free non-stick gasket
- These strainers must not be used in an end of line application without a blanking flange being fitted on the downstream end of the valve.
- Bodies are with Epoxy coating, providing excellent corrosion and wear resistance to the valve's surface. Epoxy coating offers Chemical Resistance Weather ability -Abrasion Resistance Impact Resistance.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1*	BODY	DUCTILE IRON (BSEN1563 EN-GJS-1050)
2*	COVER	DUCTILE IRON (BSEN1563 EN-GJS-1050)
3*	SCREEN	STAINLESS STEEL (BS EN 10088 *5Cr Ni18-10)
4*	PACKING	EPDM
5*	DRAIN PLUG	STAINLESS STEEL (BS EN 10088 *5Cr Ni18-10)
6*	BOLT	CARBON STEEL GAVANISED (EN 10083-2C45)
7*	SPRING WASHER	CARBON STEEL GAVANISED (EN 10132-4C67S)
8*	WASHER	CARBON STEEL GAVANISED (EN 10083-2C45)
9*	TEST PLUG	STAINLESS STEEL (BS EN 10088 *5Cr Ni18-10)

NOTE : Above Part No. with"*"is the Components which will touch with media.

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	-10 to 85 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

DIMENSIONS & WEIGHTS

Size	L	H	H1	R1 (Drain plug)	Mesh Dia	Weight (kg)
65 MM	290	137	205	3/8"	1.5	14.5
80 MM	310	152	238	3/8"	1.5	17.5
100 MM	350	205	318	3/8"	1.5	22.5
125 MM	400	244	358	3/8"	1.5	24
150 MM	480	269	380	3/8"	1.5	54
200 MM	600	341	508	1/2"	2.5	97.5

SPECIFICATION

- Strainers fitted with stainless steel perforated strainer.
- Coating/panits: Epoxy powder coated.
- End connection: BS EN 1092-2 PN25.
- Rating: PN25.
- Testing: EN 12266-1.
- Face to Face: BS EN 558-1.

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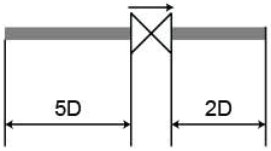
VARIABLE ORIFICE DOUBLE REGULATING VALVE - VODRV (PLDIVODRV16)

FEATURES & BENEFITS

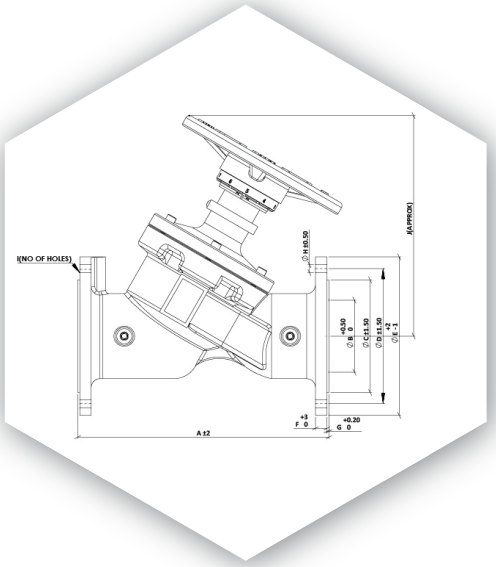
- Double regulating feature allow the valve to be used for isolation to be re-opened to its pre-set position to maintain required flow rate.
- Built-in measuring nipple (test point 3mm) for flow measurement based on Kv metholdology.
- Has sufficient authority to regulate flow in circuit incorporating 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		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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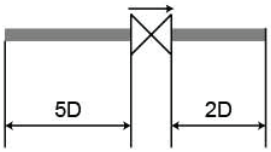
VARIABLE ORIFICE DOUBLE REGULATING VALVE - VODRV (PLDIVODRV25)

FEATURES & BENEFITS

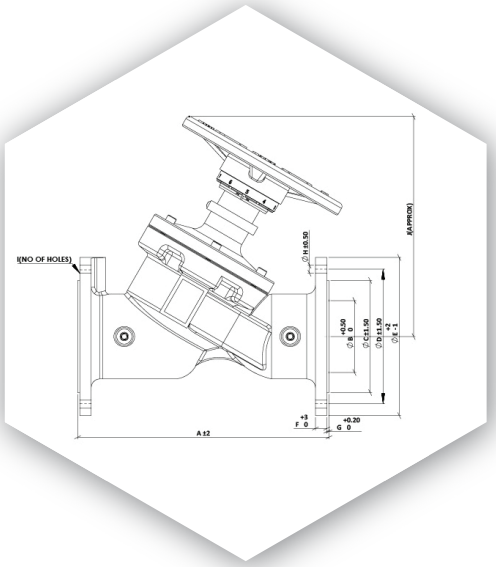
- Double regulating feature allow the valve to be used for isolation to be re-opened to its pre-set position to maintain required flow rate.
- Built-in measuring nipple (test point 3mm) for flow measurement based on Kv metholdology.
- Has sufficient authority to regulate flow in circuit incorporating 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		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.
- 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 PILOT OPERATED PRESSURE REDUCING VALVE (PLDIPPRV25)

FEATURES & BENEFITS

- Low wieght and short laying length saves initial cost, requires less space, and is easier to install.
- 200 Micron Fusion Bonded Epoxy Powder Coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- EPDM rubber diaphragm to faciliate quiet/Silent operations.
- Stable Performance, Safe & Reliable
- Simple Operation, Convenient Adjusting.
- Precise Pressure Reducing.
- Long Service Life.

APPLICATION

- Water treatment plant.
- Water source project.
- Building Service.
- Municipal facilities.
- Power & Utility.

INSTALLATION INSTRUCTIONS

- The valve's rated parameters should match the equipment's.Make sure that the valve's rated flow satisfies the actual demand.
- The installer must be trained or experienced so as to operate the installation correctly.
- Water supply pipe network should be washed before pressure reducing valve installation, eliminating sand, graval and other debris in the pipe;
- The flow direction from inlet to outlet should be paid attention to in installation, and maintenance space around the valve is convenient to assemble;
- For the size below DN150, the main valve can be installed horizontally or vertically, but horizontal installation is better. the size aboveDN150 only can be installed horizontaly.
- After debugging, the pilot valve and the needle type flow valve must be locked with locknut;
- Valve should be checked regularly, ensuring the debris in filter being cleaned.

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	0 to 80 °C

PRESSURE REGULATING RANGE

Range	.7 Bar-9 Bar
Factory Setting	3.5 Bar

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

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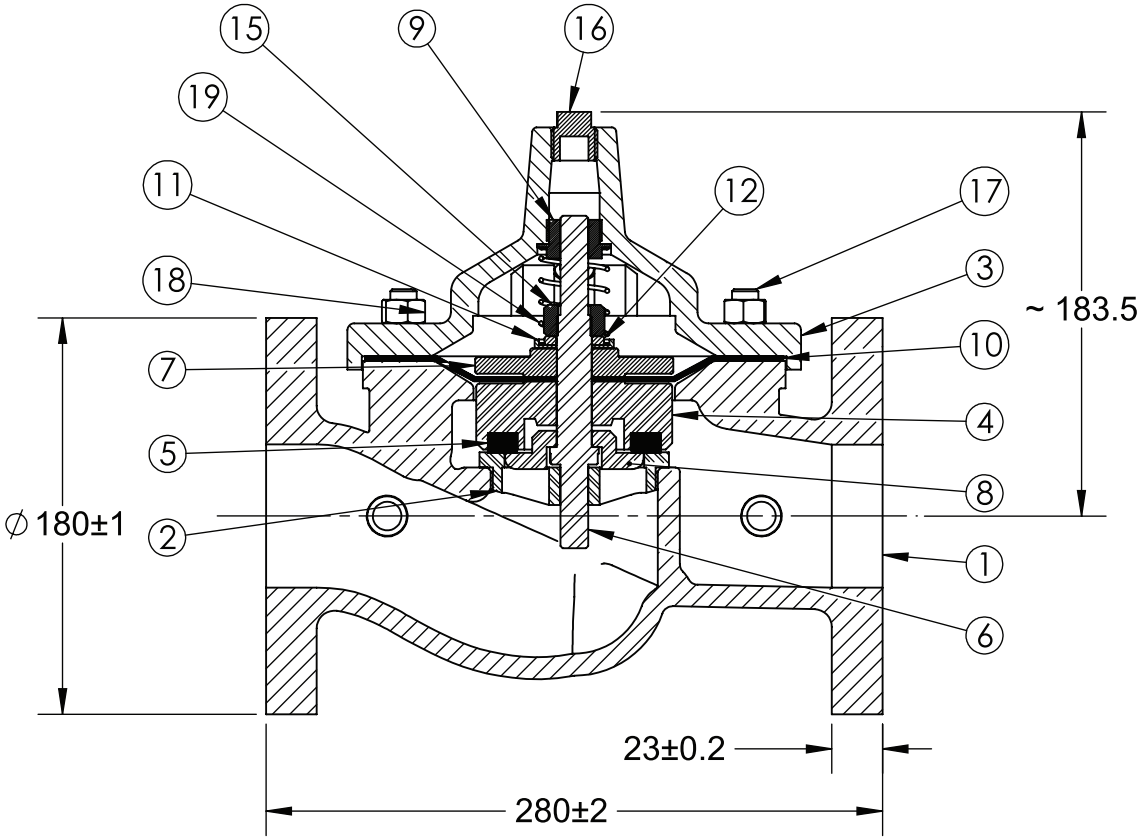
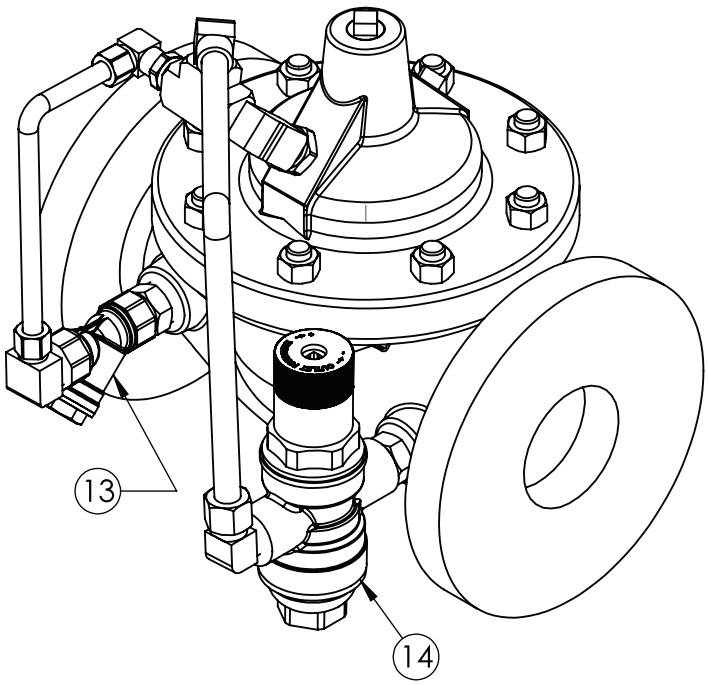
DIMENSIONAL DRAWINGS





MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	S.G. IRON (ASTM A536)
2	SEAT RING	S.S.(AISI316)
3	BONNET	S.G. IRON (ASTM A536)
4	DISC HOLDER	S.G. IRON (ASTM A536)
5	DISC	S.S.(AISI316)
6	STEM	S.S.(AISI316)
7	DIAPHRAGM PLATE	S.G. IRON (ASTM A536)
8	DISK WASHER	S.S.(AISI316)
9	BONNET BEARING	S.S.(AISI316)
10	DIAPHRAGM	NBR
11	LOWER SPRING DISC	S.S.(AISI316)
12	STEM WASHER	S.S.(AISI316)
13	STRINER	BRONZE (BS 1400 LG2)
14	PRV	BRONZE (BS 1400 LG2)
15	STEM NUT	S.S.(AISI316)
16	PLUG	S.S.(AISI316)
17	STUDS	M.S.
18	NUTS	M.S.
19	SPRING	SPRING STEEL

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SL.NO.	FEATURES		DATA
01	Valve Type		Pressure Reducing Valve
02	Nominal Diameter		DN65-DN100
03	Maximum Working Pressure		2.5 Mpa
04	Working Temperature		OoC-80oC
05	Fluid Medium		Water
06	Pressure Regulating Range		10Psi-362.5Psi (0.07Mpa-1.6Mpa)
07	Factory Setting		50Psi(0.35Mpa)
08	Liquid / Gas Service		Water
09	Design Standard		BS EN 1567
10	End Connection Detail	Inlet End	Flanged Ends
		Outlet End	Flanged Ends
11	Material Detail	Body	Ductile Iron
		Bonnet	Ductile Iron
		Stem	Stainless Steel/Brass
		Seat	Stainless Steel/Brass
		Diaphragm	NBR/Nylon
		Sealing	NBR
12	Tatal Height		As per drawing specification
13	Shell Thickness Provided		As per drawing specification
14	Mode Of Operation		Pilot Operated

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DUCTILE IRON LOW FLOW PASS PRESSURE REDUCING VALVE (PLDILFPPRV25)

FEATURES & BENEFITS

- Low wieght and short laying length saves initial cost, requires less space, and is easier to install.
- 200 Micron Fusion Bonded Epoxy Powder Coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- NBR rubber diaphragm to faciliate quiet/Silent operations.
- Stable Performance, Safe & Reliable
- Simple Operation, Convenient Adjusting.
- Precise Pressure Reducing.
- Long Service Life.
- Fluctuating upstream pressure to constant pressure thus smooth water flow.
- Main valve and bypass valve for low and high flows.
- Separate adjustment of Low Flow By-Pass and reducing set points.

APPLICATION

- Water treatment plant.
- Water source project.
- Building Service.
- Municipal facilities.
- Power & Utility.

INSTALLATION INSTRUCTIONS

- The valve's rated parameters should match the equipment's.Make sure that the valve's rated flow satisfies the actual demand.
- The installer must be trained or experienced so as to operate the installation correctly.
- Water supply pipe network should be washed before pressure reducing valve installation, eliminating sand, graval and other debris in the pipe;
- The flow direction from inlet to outlet should be paid attention to in installation, and maintenance space around the valve is convenient to assemble;
- For the size below DN150, the main valve can be installed horizontally or vertically, but horizontal installation is better. the size aboveDN150 only can be installed horizontaly.
- After debugging, the pilot valve and the needle type flow valve must be locked with locknut;
- Valve should be checked regularly, ensuring the debris in filter being cleaned.

HOW IT WORKS!

The TFL Low bypass pilot operated Pressure Reducing Control Valve is designed to maintain a fluctuating higher upstream pressure to a constant lower downstream pressure regardless of varying flow rates. The pilot assembly reacts to changes in downstream pressure allowing the main valve to modulate between the open and closed position ensuring a constant downstream set pressure. Once the downstream pressure reaches the pilot setting, the main valve will modulate toward a closed position, reducing downstream pressure. Once the main valve is in closed position the low bypass at a certain pressure will allow achieve the flow requirements. Once at high demand, which is beyond the capacity of low bypass valve the main valve will open to deliver the constant flow at certain pressure

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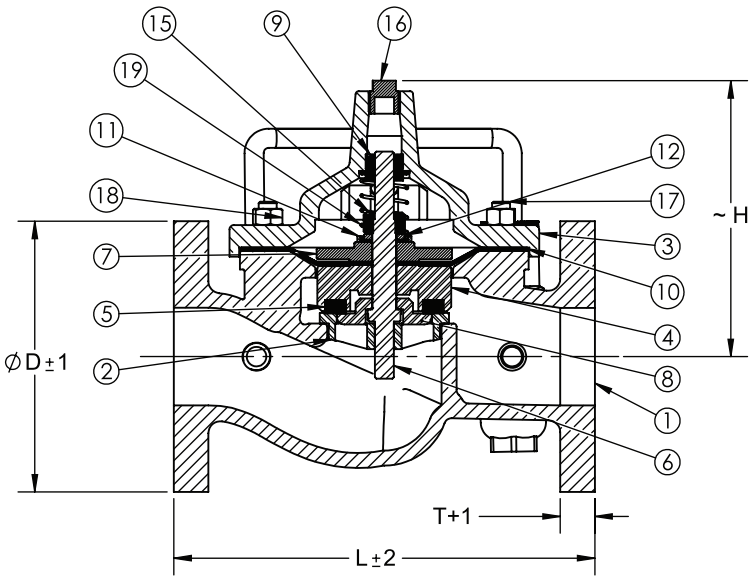
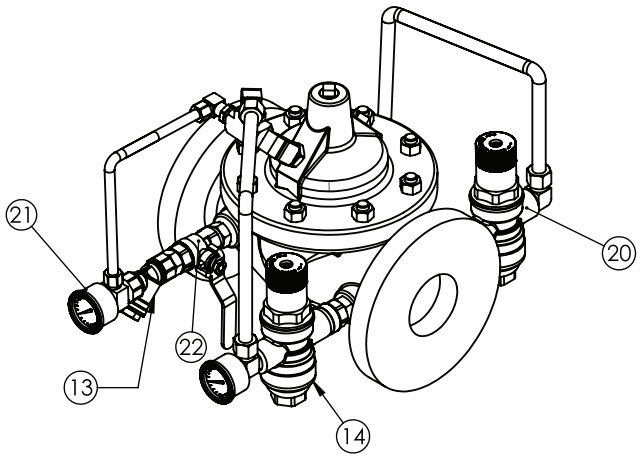
DIMENSIONAL DRAWINGS





MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	S.G. IRON (ASTM A536 Gr 60-40-18)
2	SEAT RING	S.S.(AISI316)
3	BONNET	S.G. IRON (ASTM A536 Gr 60-40-18)
4	DISC HOLDER	S.G. IRON (ASTM A536 Gr 60-40-18)
5	DISC	S.S.(AISI316)
6	STEM	S.S.(AISI316)
7	DIAPHRAGM PLATE	S.G. IRON (ASTM A536 Gr 60-40-18)
8	DISK WASHER	S.S.(AISI316)
9	BONNET BEARING	S.S.(AISI316)
10	DIAPHRAGM	NBR
11	LOWER SPRING DISC	S.S.(AISI316)
12	STEM WASHER	S.S.(AISI316)
13	STRAINER	PHOSPHOR BRONZE (BS 1400 LG2)
14	PRV	PHOSPHOR BRONZE (BS 1400 LG2)
15	STEM NUT	S.S.(AISI316)
16	PLUG	S.S.(AISI316)
17	STUDS	M.S.
18	NUTS	M.S
19	SPRING	SPRING STEEL
20	LOW FLOW BYPASS PRV	BRONZE (BS 1400 LG2)
21	PRESSURE GAUGE	----------
22	BALL VALVE	FORGED BRASS

PRESSURE REGULATING RANGE

Range	0.7 Bar-16 Bar
Factory Setting	3.5 Bar

DIMENSIONS ARE IN MM

Size	L	D	T	H
32MM	210	140	19.0	146
40MM	216	150	19.0	146
50MM	230	165	19.0	158
65MM	280	180	19.0	183.5
80MM	310	200	19.0	183
100MM	350	235	19.0	228
150MM	480	300	20	285
200MM	600	360	22	396

PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	0 to 80 °C

TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

Note: Flange Dimension According to BS: EN 1092-2

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SL.NO.	FEATURES		DATA
01	Valve Type		Pressure Reducing Valve
02	Nominal Diameter		DN 32-DN 200
03	Maximum Working Pressure		2.5Mpa.
04	Working Temperature		0°C-80°C
05	Fluid Medium		Water
06	Pressure Regulating Range		20Psi-175Psi (0.07Mpa-1.5Mpa)
07	Factory Setting		50psi(0.35Mpa)
08	By-pass setting		20psi-200psi
09	Design Standard		BS EN 1567
10	End Connection Detail	Inlet End	Flanged End according to BS EN 1092-2 (PN25)
		Outlet End	Flanged End according to BS EN 1092-2 (PN25)
11	Material detail	Body	Ductile Iron(ASTM A536)
		Bonnet	Ductile Iron(ASTM A536)
		Stem	Stainless Steel (AISI 316)
		Seat	Stainless Steel (AISI 316)
		Diaphragm	NBR
		Sealing	NBR
		Pilot PRV	Phosphor Bronze (BS 1400PB2)
		Y-type Strainer	Phosphor Bronze (BS 1400PB2)
		By-pass PRV	Phosphor Bronze (BS 1400PB2)
		Spring	Spring steel
		Tubing & Fitting	Stainless steel
12	Paint		Blue Epoxy Coated
13	Total Height		As per drawing specification
14	Shell Thickness Provided		As per drawing specification
15	Mode Of Operation		Pilot Operated

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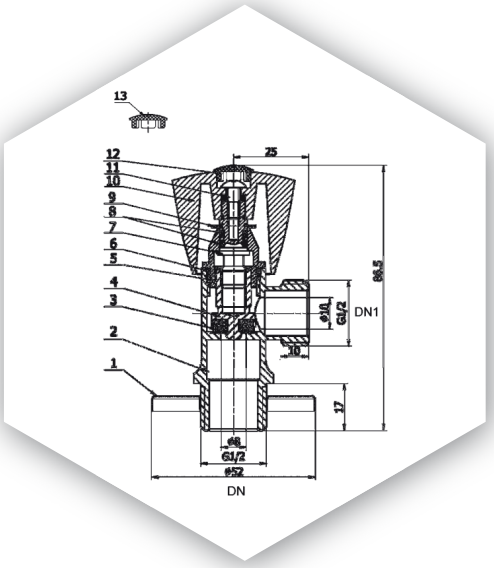
CHROME PLATED ANGLE VALVE (PLBAV10)

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	COVER/FLANGE-NATURAL COLOUR	STAINLESS STEEL
2	BODY-POLISH & CHROME PLATED	CU
3	RUBBER GASKET	NBR
4	DISK-NATURAL COLOUR	CU
5	BONNET-NATURAL COLOUR	CU
6	O-RING	NBR
7	STEM-NATURAL COLOUR	CU
8	O-RING	NBR
9	CLAMP SPRING-NATURAL COLOUR	COPPER
10	HANDLE-POLISH & CHROME PLATED	ZINC ALLOY
11	SCREW-NICKLE PLATED	IRON
12	BUTTON BLUE	PLASTIC
13	BUTTON RED	PLASTIC

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

Pressure Rating	10 bar
Temperature	0 to 100 °C

TEST PRESSURES

Shell	15 bar
Seat	11.5 bar

SPECIFICATION

- Before assembling ; clean oil grease, all burns and sharp edges.
- Before connecting; body male thread should be applied with sealing glue.
- Handle turns on off freely.
- After assembling ; test by water at pressure not less than 10 bar for leakage.

DIMENSIONS

DN1	DN
3/8"	1/2"
1/2"	1/2"

APPLICATION

- Water

CONNECTION

- Thread to ISO 228,BSP,NBT

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DZR BRASS BIB TAP (PLBRBP10)

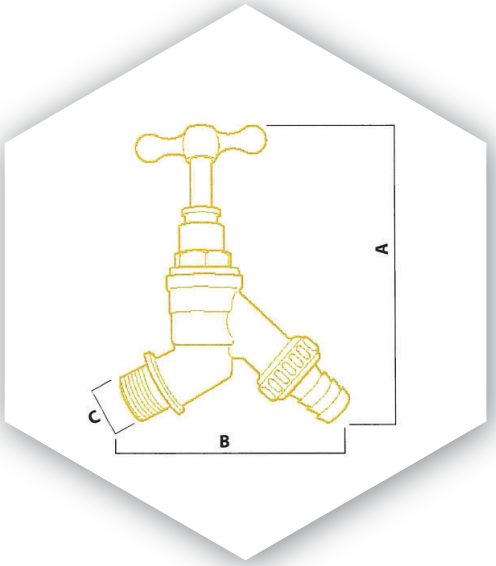
FEATURES & BENEFITS

- Bit tap with hose union.
- Screw Down T Handle.
- Hose tail outlet.
- Bronze/ DZR brass body.
- Fits directly into a wall socket.
- Locksheild type with spare key protect from unauthorisd operation.
- Bib tap with house union manufactured from DZR brass/bronze are suitable for use as an external supply, drain off tap, or standpipe.
- Available in Screw down T handle type.
  Designed to fix directly into a wall fitting, via the 1/2"or 3/4 or 1" male inlet. and terminates in a hose tail attached to the tap body.

MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY/CAP/PLUG/ADAPTOR	DZR BRASS/BRONZE
2	T HANDLE	BRASS
3	DISK	EPDM

DIMENSIONAL DRAWINGS



PRESSURE / TEMPERATURE RATING

working Pressure	20 bar max.
working Temperature	90 °C max.

TEST PRESSURES

Shell	24 bar
Seat	17.6 bar

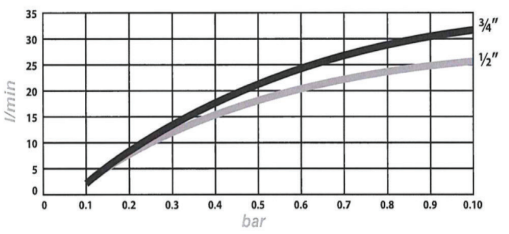
SPECIFICATION

- Inlet connection : 1/4" or 3/4" or 1" BSP male
- Outlet connection : Hose tail

DIMENSIONS

TYPE	A	B	C
EBM-42-A	105	72	1/2"BSP
EBH-42-B	140	110	3/4"BSP
EBH-42-C	140	110	1"BSP

PERFORMANCE



TFL Valves Quality Policy Is Complete Satisfaction Of Customers. According To That We Have Selected QUALITY As A Strategic factor in application to all our organization. Our purpose is to reinforce competitiveness, to ensure customer satisfaction, to improve process related with product quality and guarantee accomplishment of quality requirements.