SERIES 55/5F/5G

Resilient Seal Double Offset Butterfly Valve

Double Flanged , Wafer and Lug End

DelVal®
Flow Controls





STANDARD FEATURES

Quality & Performance

DelVal® Flow Controls provides a wide range of quality products with reliability you can count on. Series 55 / 5F/ 5G Double Offset Butterfly Valves are manufactured in ISO 9001 certified facilities with a robust quality management system and according to BS EN 593 standard.

Design Construction and Features

1. Top Flange
The top flange is drilled as per EN ISO 5211 to accommodate direct mounting of a wide range of actuators and manual operators.

2. Body
Heavy duty one-piece body with two layers of of hard, zinc phosphate epoxy coating with semi-gloss finish for excellent corrosion resistance. Available in various flange standard dimensions.

3. Disc
The disc has been engineered to maximize flow and minimize resistance to provide a high flow of coefficient (Cv).

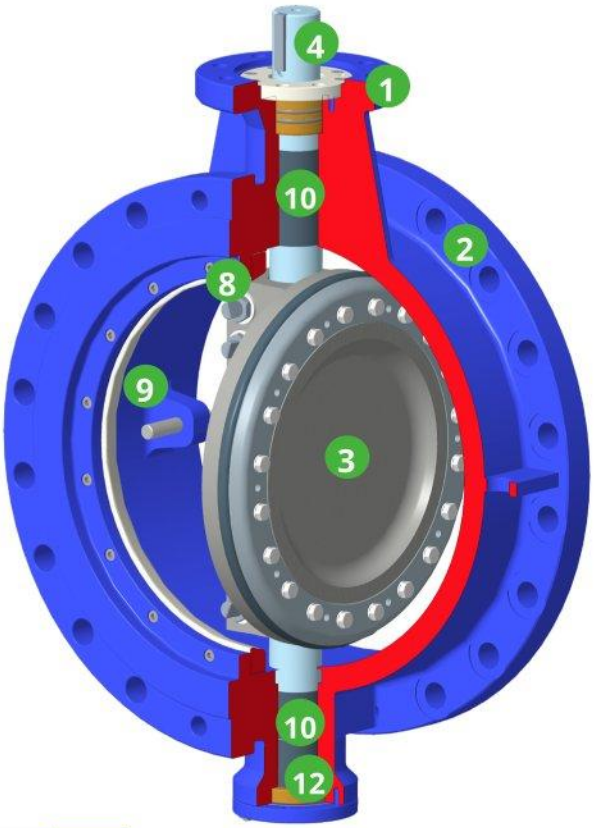
4. Stem
High strength two stub stem secured in bearing at drive and non-drive end of the body, support the disc against the pressure exerted by fluid and minimize deflection. Stem is positively retained with bolted top cover to prevent accidental blow out.

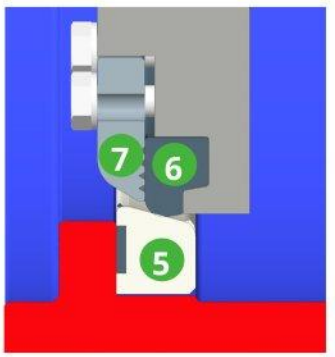
5. Body Seat
Stainless steel precision machined to close tolerances with high polish finish to match with seal ring.

6. Disc Seal Ring
A high-quality single piece replaceable seal mechanically retained in disc by means of a especially engineered clamping ring, provides bubble tight sealing.

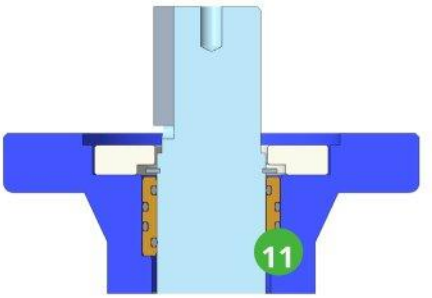
7. Seal Retainer
Unique clamping ring design ensures controlled and uniform seat compression and facilitates easy replacement of seal.

8. Wedge Keys
Keys are offset from the centre of the stem which places them in compression rather than shear, eliminating potential for failure. The keys are wedge type and precision fit to provide positive mechanical engagement of disc to stem.





Seat - Seal Arrangement



Stem Sealing

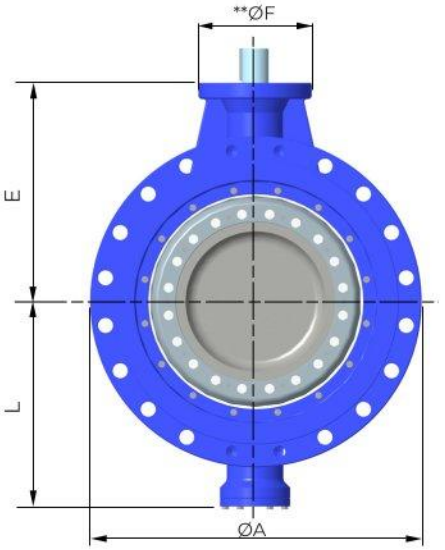
9. Disc Stop
The disc stop (optional) prevents disc from rotating in the wrong direction.

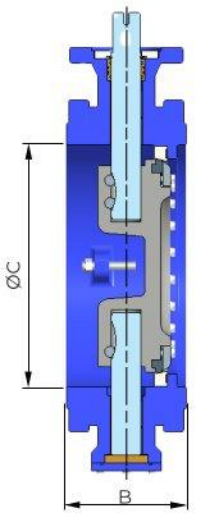
10. Bearing
Self-lubricated low coefficient friction sleeve bearings reduces operating torques, capable of withstanding hydrostatic disc load, allows valve installation with the shaft horizontal or vertical.

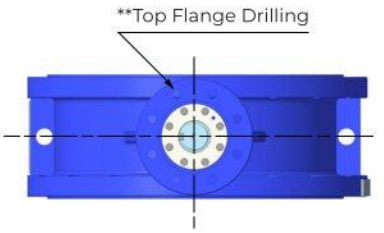
11. Stem Seal
Replaceable shaft sealing with two O-rings on each side of a stainless-steel material of construction.

12. Thrust Bearing
Thrust bearing allows valve with vertical stem installation, also acts as centralising device for shaft disc assembly.

DIMENSIONS AND WEIGHTS (Double Flanged End)







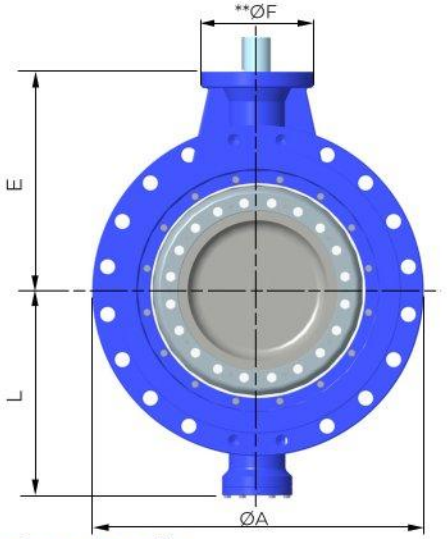
Dimensions (mm)

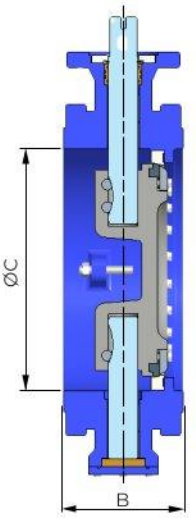
Valve Size		ØA	*B	ØC	E	L	Top Flange Drilling(PN2.5)				Top Flange Drilling(PN6/PN10)				Top Flange Drilling(PN16)				Top Flange Drilling(PN20)				# Approx. Weight (Kg)
Inch	DN						ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	
3	80	190	114	80	130	92	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	11
4	100	230	127	100	152	115	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	21
5	125	255	140	125	165	127	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	27
6	150	280	140	150	180	148	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	50
8	200	345	152	200	230	185	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	70
10	250	405	165	250	255	240	90	70	4	10	90	70	4	10	125	102	4	12	125	102	4	12	90
12	300	485	178	300	285	265	90	70	4	10	125	70/102	4	10/12	125	102	4	12	125	102	4	12	110
14	350	535	190	350	340	315	125	70/102	4	10/12	150	102/125	4	12/14	150	125	4	14	125	125	4	14	170
16	400	600	216	400	360	345	125	102	4	12	150	125	4	14	150	125	4	14	175	140	4	18	190
18	450	635	222	450	390	380	150	102/125	4	12/14	150	125	4	14	175	140	4	18	175	140	4	18	240
20	500	700	229	500	430	400	150	125	4	14	175	125/140	4	14/18	175	140	4	18	175	140	4	18	285
24	600	815	267	600	495	478	175	125/140	4	18	175	140	4	18	210	165	4	22	210	165	4	22	410
26	650	870	292	650	555	495	175	140	4	18	175	140	4	18	210	165	4	22					480
28	700	927	292	700	580	546	175	140	4	18	210	165	4	22	210	165	4	22					590
30	750	985	318	750	595	572	175	140	4	18	210	165	4	22	210	165	4	22					720
32	800	1060	318	800	670	598	210	165	4	22	210	165	4	22	300	254	8	18					780
36	900	1170	330	900	705	710	210	165	4	22	300	254	8	18	300	254	8	18					1120
40	1000	1290	410	1000	782	750	210	165	4	22	300	254	8	18	300	254	8	18					1440
42	1050	1346	410	1050	815	770	300	254	8	18	350	298	8	22	350	298	8	22					1500
44	1100	1405	470	1100	845	840	300	254	8	18	350	298	8	22	350	298	8	22					1750
48	1200	1511	470	1200	915	917	350	298	8	22	350	298	8	22	415	356	8	32					2100
52	1300	1626	470	1300	980	965	350	298	8	22	415	356	8	32									2400
54	1350	1685	470	1350	1030	990	350	298	8	22	415	356	8	32									2700
56	1400	1746	530	1400	1060	1017	350	298	8	22	415	356	8	32									3000
60	1500	1854	600	1500	1125	1150	415	356	8	32	415	356	8	32									3800
64	1600	1915	600	1600	1140	1210	415	356	8	32	475	406	8	38									5100
66	1650	2032	670	1650	1350	1270	415	356	8	32	475	406	8	38									6000
72	1800	2197	670	1800	1400	1325	475	406	8	38	475	406	8	38									7000
80	2000	2325	760	2000	1500	1400	475	406	8	38	560	483	12	38									7800
84	2100	2534	610	2100	1650	1500	475	406	8	38	560	483	12	38									9000
88	2200	2550	610	2200	1750	1680	475	406	8	38	560	483	12	38									12000
96	2400	2832	711	2400	1850	1790	560	483	12	38	560	483	12	38									15000
102	2500	3048	762	2500	1950	1890	560	483	12	38	560	483	12	38									17000
112	2800	3180	762	2800	2000	1900	560	483	12	38	686	603	20	38									21000
120	3000	3563	813	3000	2300	2200	686	603	20	38	686	603	20	38									30000

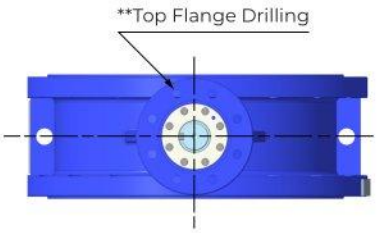
*Face to face dimensions, sizes up to 80" generally confirms to BE EN558-1 Series 13, ISO 5752 Series 13 API 609 table 3C short pattern and 84" onward AWWA C516 table 1.
Face to face as per AWWA C504 / ASME B16.10 on request.
Approximate values
Please consult DelVal® for sizes not avaliable in the bulletin.
**Please consult DelVal® for actuator mounting details.

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DIMENSIONS AND WEIGHTS (Double Flanged End)







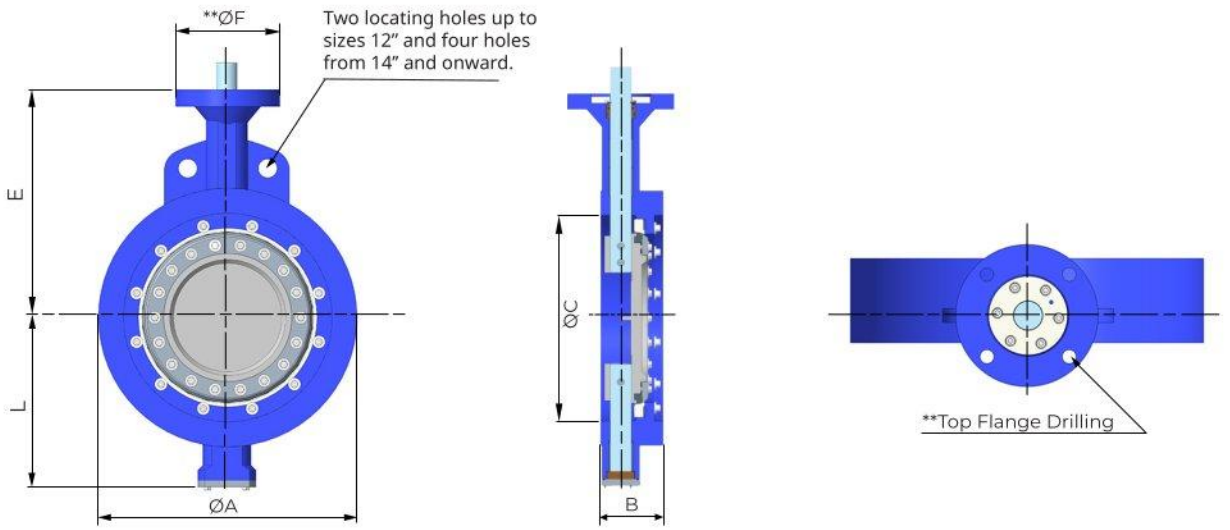
Dimensions (Inch)

Valve Size		ØA	*B	ØC	E	L	Top Flange Drilling (36 PSI)				Top Flange Drilling (87 PSI/150 PSI)				Top Flange Drilling (230 PSI)				Top Flange Drilling (285 PSI)				# Approx. Weight (Lbs)
Inch	DN						ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	
3	80	7.50	4.50	3.15	5.1	3.60	3.50	2.80	4	0.4	3.50	2.8	4	0.4	3.50	2.80	4	0.40	3.50	2.80	4	0.40	24
4	100	9.10	5.00	3.94	6.00	4.50	3.50	2.80	4	0.4	3.50	2.8	4	0.4	3.50	2.80	4	0.40	3.50	2.80	4	0.40	46
5	125	10.00	5.50	4.92	6.5	5.00	3.50	2.80	4	0.4	3.50	2.8	4	0.4	3.50	2.80	4	0.40	3.50	2.80	4	0.40	59
6	150	11.00	5.50	5.91	7.10	5.80	3.50	2.80	4	0.4	3.50	2.8	4	0.4	3.50	2.80	4	0.40	3.50	2.80	4	0.40	110
8	200	13.60	6.00	7.87	9.10	7.30	3.50	2.80	4	0.4	3.50	2.8	4	0.4	3.50	2.80	4	0.40	3.50	2.80	4	0.40	154
10	250	15.90	6.50	9.84	10.00	9.40	3.50	2.80	4	0.4	3.50	2.8	4	0.4	4.90	4.00	4	0.50	4.90	4.00	4	0.50	198
12	300	19.10	7.00	11.81	11.20	10.40	3.50	2.80	4	0.4	4.90	2.8 / 4.0	4	0.4 / 0.47	4.90	4.00	4	0.50	4.90	4.00	4	0.50	242
14	350	21.10	7.50	13.78	13.40	12.40	4.90	2.8 /4.0	4	0.4 / 0.47	5.90	4.0 / 4.9	4	0.47/ 0.55	5.900	4.90	4	0.60	4.90	4.90	4	0.60	374
16	400	23.62	8.50	15.75	14.20	13.60	4.90	4.00	4	0.47	5.90	4.9	4	0.55	5.90	4.90	4	0.60	6.90	5.50	4	0.70	418
18	450	25.00	8.70	17.72	15.40	15.00	5.90	4.0 /4.9	4	0.47 / 0.55	5.90	4.9	4	0.55	6.90	5.50	4	0.70	6.90	5.50	4	0.70	528
20	500	27.60	9.00	19.69	16.90	15.70	5.90	4.90	4	0.55	6.90	4.9 / 5.5	4	0.55/ 0.71	6.90	5.50	4	0.70	6.90	5.50	4	0.70	627
24	600	32.10	10.50	23.62	19.50	18.80	6.90	4.9 /5.5	4	0.71	6.90	5.50	4	0.71	8.30	6.50	4	0.90	8.30	6.50	4	0.90	902
26	650	34.30	11.50	25.59	21.90	19.50	6.90	5.50	4	0.71	6.90	5.50	4	0.71	8.30	6.50	4	0.90					1056
28	700	36.50	11.50	27.56	22.80	21.50	6.90	5.50	4	0.71	8.30	6.50	4	0.87	8.30	6.50	4	0.90					1298
30	750	38.80	12.50	29.53	23.40	22.50	6.90	5.50	4	0.71	8.30	6.50	4	0.87	8.30	6.50	4	0.90					1584
32	800	41.70	12.50	31.50	26.40	23.50	8.30	6.50	4	0.87	8.30	6.50	4	0.87	11.80	10.00	8	0.70					1716
36	900	46.10	13.00	35.43	27.80	28.00	8.30	6.50	4	0.87	11.80	10.00	8	0.71	11.80	10.00	8	0.70					2464
40	1000	50.80	16.10	39.37	30.80	29.50	8.30	6.50	4	0.87	11.80	10.00	8	0.71	11.80	10.00	8	0.70					3168
42	1050	53.00	16.10	41.34	32.10	30.30	11.80	10.00	8	0.71	13.80	11.70	8	0.87	13.80	11.70	8	0.90					3300
44	1100	55.30	18.50	43.31	33.30	33.10	11.80	10.00	8	0.71	13.80	11.70	8	0.87	13.80	11.70	8	0.90					3850
48	1200	59.50	18.50	47.24	36.00	36.10	13.80	11.70	8	0.87	13.80	11.70	8	0.87	16.30	14.00	8	1.30					4620
52	1300	64.00	18.50	51.18	38.60	38.00	13.80	11.70	8	0.87	16.30	14.00	8	1.26									5280
54	1350	66.30	18.50	53.15	40.60	39.00	13.80	11.70	8	0.87	16.30	14.00	8	1.26									5940
56	1400	68.70	20.90	55.12	41.70	40.00	13.80	11.70	8	0.87	16.30	14.00	8	1.26									6600
60	1500	73.00	23.60	59.06	44.30	45.30	16.30	14.00	8	1.26	16.30	14.00	8	1.26									8360
64	1600	75.40	23.60	62.99	44.90	47.60	16.30	14.00	8	1.26	18.70	16.00	8	1.50									11220
66	1650	80.00	26.40	64.96	53.10	50.00	16.30	14.00	8	1.26	18.70	16.00	8	1.50									13200
72	1800	86.50	26.40	70.87	52.20	55.11	18.70	16.00	8	1.50	18.70	16.00	8	1.50									15400
80	2000	91.50	29.90	78.74	55.11	59.00	18.70	16.00	8	1.50	22.00	19.00	12	1.50									17160
84	2100	99.80	24.00	82.68	59.00	63.00	18.70	16.00	8	1.50	22.00	19.00	12	1.50									19800
88	2200	100.40	24.00	86.61	68.90	66.10	18.70	16.00	8	1.50	22.00	19.00	12	1.50									26400
96	2400	111.50	28.00	94.49	72.80	70.50	22.00	19.00	12	1.50	22.00	19.00	12	1.50									33000
102	2500	120.00	30.00	98.43	76.80	74.40	22.00	19.00	12	1.50	22.00	19.00	12	1.50									37400
112	2800	125.20	30.00	110.24	78.70	74.80	22.00	19.00	12	1.50	27.00	23.70	20	1.50									46200
120	3000	140.30	32.00	118.11	90.60	86.60	27.00	23.70	20	1.50	27.00	23.70	20	1.50									66000

*Face to face dimensions, sizes upto 80" generally confirms to BE EN558-1 Series 13, ISO 5752 Series 13 API 609 table 3C short pattern and 84" onward AWWA C516 table 1.
Face to face as per AWWA C504 / ASME B16.10 on request.
Approximate values
Please consult DelVal® for sizes not avaliable in the bulletin.
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DIMENSIONS AND WEIGHTS (Wafer End)

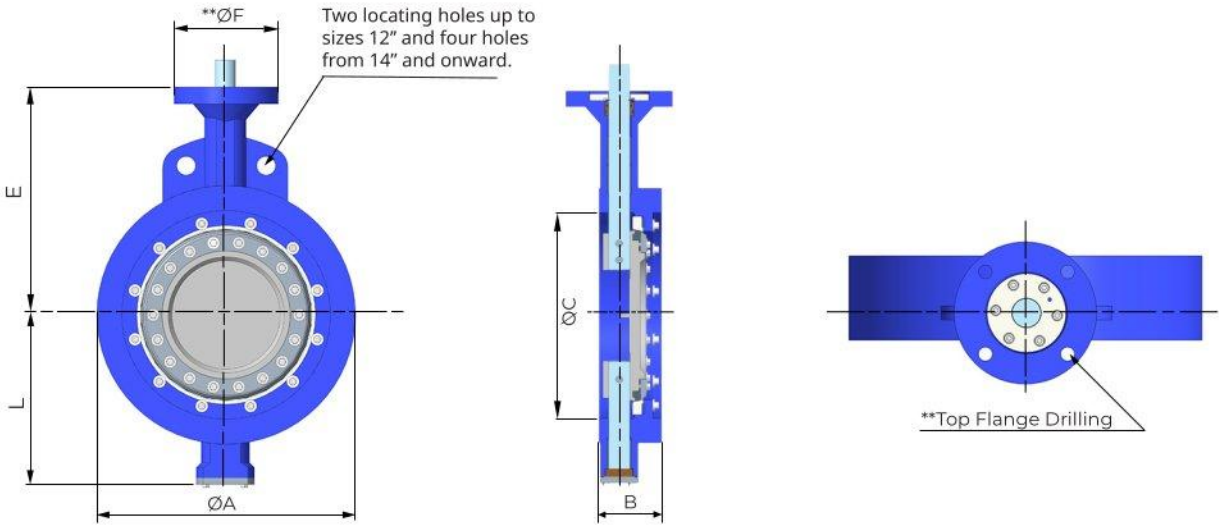


Dimensions (mm)

Valve Size		ØA	*B	ØC	E	L	Top Flange Drilling (PN2.5)				Top Flange Drilling (PN6/PN10)				Top Flange Drilling (PN16)				Top Flange Drilling (PN20)				# Approx. Weight (kg)
Inch	DN						ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	
2	50	92	43	60	115	75	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	7
3	80	127	64	85	130	92	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	11
4	100	158	64	110	152	115	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	14
5	125	186	70	135	165	127	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	16
6	150	216	76	160	180	148	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	18
8	200	270	89	200	230	185	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	30
10	250	324	114	250	255	240	90	70	4	10	90	70	4	10	125	102	4	12	125	102	4	12	55
12	300	381	114	300	285	265	90	70	4	10	125	70/102	4	10/12	125	102	4	12	125	102	4	12	68
14	350	413	127	350	340	315	125	70/102	4	10/12	150	102/125	4	12/14	150	125	4	14	125	125	4	14	120
16	400	470	140	400	360	345	125	102	4	12	150	125	4	14	150	125	4	14	175	140	4	18	165
18	450	534	152	450	390	380	150	102/125	4	12/14	150	125	4	14	175	140	4	18	175	140	4	18	215
20	500	585	152	500	430	400	150	125	4	14	175	125/140	4	14/18	175	140	4	18	175	140	4	18	265
24	600	692	178	600	495	478	175	125/140	4	18	175	140	4	18	210	165	4	22	210	165	4	22	315

**Face to face as per BS EN 593 SERIES 16./ ISO 5752 SERIES 16.
Approximate values.
Please consult DelVal® for non available sizes dimesnions.
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DIMENSIONS AND WEIGHTS (Wafer End)

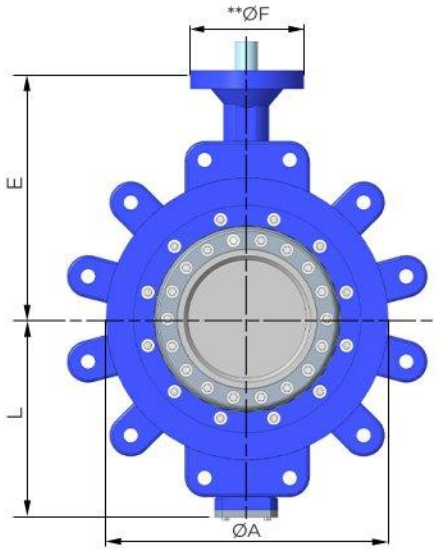


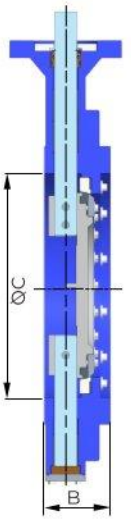
Dimensions (Inch)

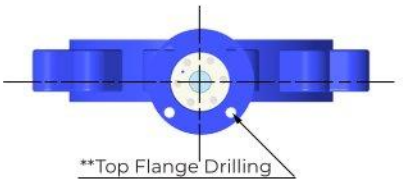
Valve Size		ØA	*B	ØC	E	L	Top Flange Drilling (37 PSI)				Top Flange Drilling (PN87/PN150 PSI)				Top Flange Drilling (230 PSI)				Top Flange Drilling (285 PSI)				# Approx. Weight (lbs)
Inch	DN						ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	
2	50	3.6	1.7	2.3	4.5	2.9	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	15
3	80	5	2.5	3.3	5.1	3.6	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	24
4	100	6.2	2.5	4.3	6	4.5	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	30
5	125	7.3	2.7	5.3	6.5	5	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	35
6	150	8.5	2.9	6.3	7.1	5.8	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	40
8	200	10.6	3.5	7.9	9.1	7.3	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	66
10	250	12.8	4.4	9.8	10	9.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	4.9	4	4	0.5	4.9	4	4	0.5	121
12	300	15	4.4	11.8	11.2	10.4	3.5	2.8	4	0.4	4.9	2.8 / 4.0	4	0.4 / 0.47	4.9	4	4	0.5	4.9	4	4	0.5	150
14	350	16.3	5	13.7	13.4	12.4	4.9	2.8 / 4.0	4	0.4 / 0.47	5.9	4.0 / 4.9	4	0.47/ 0.55	5.9	4.9	4	0.6	4.9	4.9	4	0.6	264
16	400	18.5	5.5	15.7	14.2	13.6	4.9	4	4	0.47	5.9	4.9	4	0.55	5.9	4.9	4	0.6	6.9	5.5	4	0.7	364
18	450	21.1	5.9	17.7	15.4	15	5.9	4.0 / 4.9	4	0.47 / 0.55	5.9	4.9	4	0.55	6.9	5.5	4	0.7	6.9	5.5	4	0.7	474
20	500	23.1	5.9	19.6	16.9	15.7	5.9	4.9	4	0.55	6.9	4.9 / 5.5	4	0.55/ 0.71	6.9	5.5	4	0.7	6.9	5.5	4	0.7	584
24	600	27.3	7.0	23.6	19.5	18.8	6.9	4.9 / 5.5	4	0.71	6.9	5.5	4	0.71	8.3	6.5	4	0.9	8.3	6.5	4	0.9	694

**Face to face as per BS EN 593 SERIES 16./ ISO 5752 SERIES 16.
Approximate values.
Please consult DelVal® for non available sizes dimesnions.
Please consult DelVal® for actuator mounting details.
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DIMENSIONS AND WEIGHTS (Lug End)





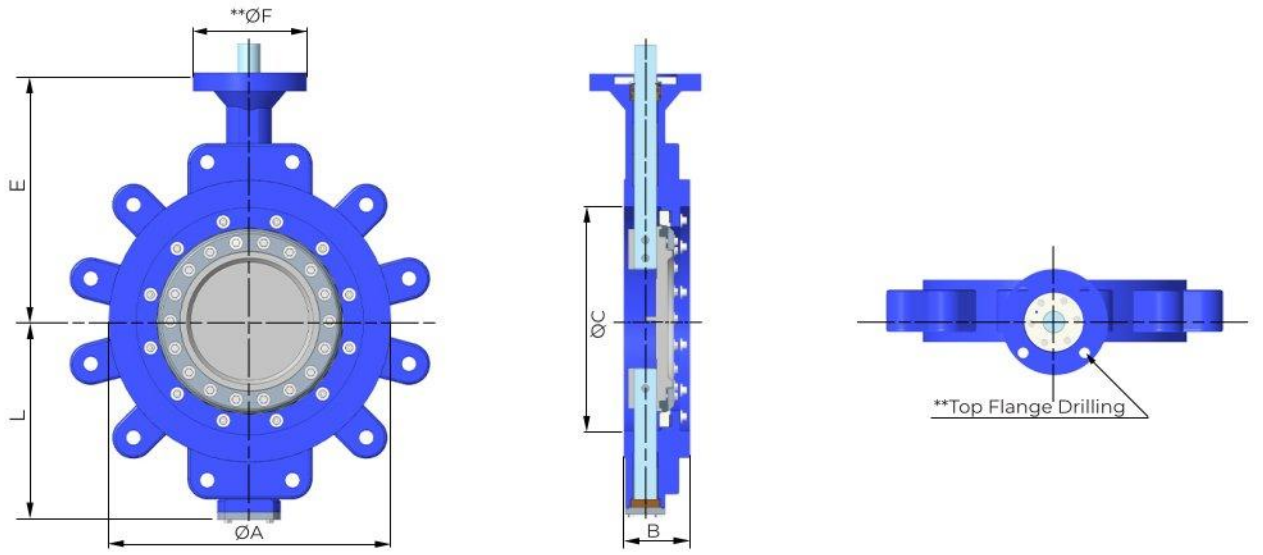


Dimensions (mm)

Valve Size		ØA	*B	ØC	E	L	Top Flange Drilling (PN2.5)				Top Flange Drilling (PN6/PN10)				Top Flange Drilling (PN16)				Top Flange Drilling (PN20)				# Approx. Weight (kg)
Inch	DN						ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	
2	50	92	43	60	115	75	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	8
3	80	127	64	85	130	92	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	12
4	100	158	64	110	152	115	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	18
5	125	186	70	135	165	127	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	20
6	150	216	76	160	180	148	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	21
8	200	270	89	200	230	185	90	70	4	10	90	70	4	10	90	70	4	10	90	70	4	10	37
10	250	324	114	250	255	240	90	70	4	10	90	70	4	10	125	102	4	12	125	102	4	12	66
12	300	381	114	300	285	265	90	70	4	10	125	70/102	4	10/12	125	102	4	12	125	102	4	12	86
14	350	413	127	350	340	315	125	70/102	4	10/12	150	102/125	4	12/14	150	125	4	14	125	125	4	14	144
16	400	470	140	400	360	345	125	102	4	12	150	125	4	14	150	125	4	14	175	140	4	18	196
18	450	534	152	450	390	380	150	102/125	4	12/14	150	125	4	14	175	140	4	18	175	140	4	18	238
20	500	585	152	500	430	400	150	125	4	14	175	125/140	4	14/18	175	140	4	18	175	140	4	18	318
24	600	692	178	600	495	478	175	125/140	4	18	175	140	4	18	210	165	4	22	210	165	4	22	368

**Face to face as per BS EN 593 SERIES 16./ ISO 5752 SERIES 16.
Approximate values
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DIMENSIONS AND WEIGHTS (Lug End)



Dimensions (Inch)

Valve Size		ØA	*B	ØC	E	L	Top Flange Drilling (37 PSI)				Top Flange Drilling (PN87/PN150 PSI)				Top Flange Drilling (230 PSI)				Top Flange Drilling (285 PSI)				# Approx. Weight (lbs)
Inch	DN						ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	ØF	PCD	No of Holes	Hole Dia.	
2	50	3.6	1.7	2.3	4.5	2.9	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	17
3	80	5	2.5	3.3	5.1	3.6	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	26
4	100	6.2	2.5	4.3	6	4.5	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	40
5	125	7.3	2.7	5.3	6.5	5	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	44
6	150	8.5	2.9	6.3	7.1	5.8	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	46
8	200	10.6	3.5	7.9	9.1	7.3	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	81
10	250	12.8	4.4	9.8	10	9.4	3.5	2.8	4	0.4	3.5	2.8	4	0.4	4.9	4	4	0.5	4.9	4	4	0.5	145
12	300	15	4.4	11.8	11.2	10.4	3.5	2.8	4	0.4	4.9	2.8 / 4.0	4	0.4 / 0.47	4.9	4	4	0.5	4.9	4	4	0.5	189
14	350	16.3	5	13.7	13.4	12.4	4.9	2.8 / 4.0	4	0.4 / 0.47	5.9	4.0 / 4.9	4	0.47/ 0.55	5.9	4.9	4	0.6	4.9	4.9	4	0.6	317
16	400	18.5	5.5	15.7	14.2	13.6	4.9	4	4	0.47	5.9	4.9	4	0.55	5.9	4.9	4	0.6	6.9	5.5	4	0.7	432
18	450	21.1	5.9	17.7	15.4	15	5.9	4.0 / 4.9	4	0.47 / 0.55	5.9	4.9	4	0.55	6.9	5.5	4	0.7	6.9	5.5	4	0.7	524
20	500	23.1	5.9	19.6	16.9	15.7	5.9	4.9	4	0.55	6.9	4.9 / 5.5	4	0.55/ 0.71	6.9	5.5	4	0.7	6.9	5.5	4	0.7	701
24	600	27.3	7.0	23.6	19.5	18.8	6.9	4.9 / 5.5	4	0.71	6.9	5.5	4	0.71	8.3	6.5	4	0.9	8.3	6.5	4	0.9	811

**Face to face as per BS EN 593 SERIES 16./ ISO 5752 SERIES 16.
Approximate values
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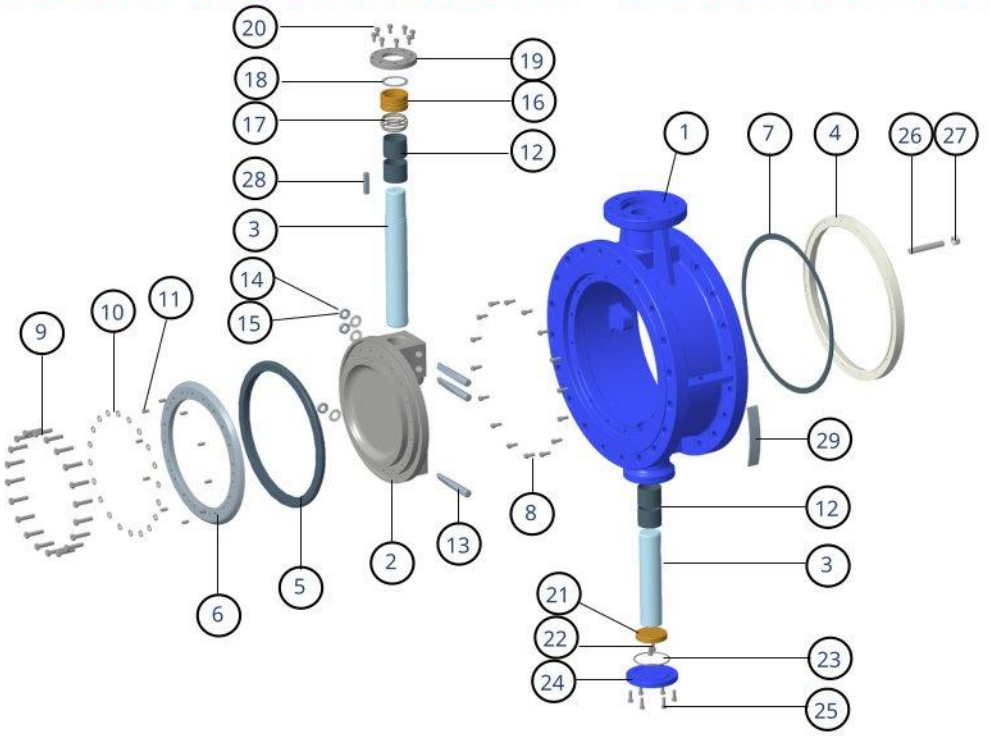
TORQUE DATA (Nm / Lbf-Inch)

Valve Size		Differential Pressure (ΔP)									
		PN 2.5 / 36 Psi		PN 6 / 87 Psi		PN 10 / 150 Psi		PN 16 / 230 Psi		PN 20 / 285 Psi	
Inch	DN	Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch
3	80	16	142	20	177	23	204	25	221	28	248
4	100	25	221	30	266	33	292	36	319	48	425
5	125	59	522	65	575	70	620	78	690	83	735
6	150	62	549	72	637	78	690	87	770	94	832
8	200	148	1310	162	1434	175	1549	199	1761	214	1894
10	250	175	1549	190	1682	220	1947	260	2301	290	2567
12	300	207	1832	234	2071	270	2390	322	2850	410	3629
14	350	389	3443	482	4266	579	5124	735	6505	836	7399
16	400	496	4390	618	5469	744	6584	936	8284	1076	9523
18	450	646	5717	808	7151	966	8549	1224	10832	1409	12470
20	500	862	7629	1087	9620	1296	11470	1663	14718	1897	16788
22	550	1084	9593	1368	12107	1652	14620	2111	18682	2428	21488
24	600	1305	11549	1648	14585	2008	17771	2558	22638	2958	26178
26	650	1597	14133	1950	17258	2210	19559	2610	23099		
28	700	1755	15532	2150	19028	2490	22037	2830	25046		
30	750	2395	21196	2912	25771	3429	30347	4256	37666		
32	800	3099	27426	3762	33294	4529	40082	5456	48286		
36	900	3865	34205	4762	42144	5659	50082	7094	62782		
40	1000	6102	54003	7601	67269	9100	80535	11499	101766		
42	1050	6914	61185	8281	73283	9710	85934	12270	108585		
44	1100	7725	68366	8960	79296	10320	91332	13040	115404		
48	1200	9950	88058	12450	110183	14770	130715	18806	166433		
52	1300	13343	118087	16012	141705	22242	196839				
54	1350	14724	130307	17670	156380	23635	209170				
56	1400	16105	142533	19327	171040	25027	221487				
60	1500	19024	168361	22829	202033	29353	259778				
64	1600	22535	199436	27042	239323	34542	305697				
66	1650	27763	245704	33316	294845	42453	375709				
72	1800	32628	288761	39154	346513	49615	439092				
80	2000	42542	376498	51051	451797	63763	564304				
84	2100	51289	453910	61547	544693	76809	679762				
88	2200	58250	515509	69900	618611	86694	767238				
96	2400	74148	656212	88978	787455	109012	964758				
100	2500	85045	752650	102054	903180	124621	1102893				
112	2800	115813	1024941	138975	1229930	166384	1472500				
120	3000	144653	1280175	173583	1536210	206120	1824160				

Note : Above torques are for clean media only. All other conditions/applications, please consult factory.

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STANDARD MATERIALS OF CONSTRUCTIONS



Part List

Item	Description	*Standard Material	
		CI/DI/CS	SS/DSS
^1	Body	CI ASTM A126 CLASS B CI IS 210 FG260 DI ASTM A395 60-40-18 ASTM A216 WCB	ASTM A351 CF8/CF8M ASTM A995 4A/5A/6A
^2	Disc	DI ASTM A395 60-40-18 ASTM A216 WCB ASTM A351 CF8/CF8M ASTM A995 4A/5A/6A	ASTM A351 CF8/CF8M ASTM A995 4A/5A/6A
3	Stem (Upper/Lower)	ASTM A479 SS410-L2 ASTM A479 SS316 / SS304 ASTM A564 17-4 Ph Type 630	ASTM A479 SS304/SS316 ASTM A182 F51/F55
4	Body Seat	ASTM 240 SS304	ASTM A240 SS304 / SS316 ASTM A240 S31803/S32760
**5	Disc Seal	NBR (BUNA-N)/ EPDM/VITON/ SILICONE#	
6	Seal Retainer	IS 2062 Gr-B ASTM A516 Gr. 70 ASTM A240 SS304/SS316	ASTM A240 SS304 / SS316 ASTM A240 S31803/S32760
**7	Gasket	NBR (BUNA-N)/EPDM/VITON/SILICONE#	
**8	Socket HD Cap Screw	ISO 3506 A4-70	ISO 3506 A4-70 ASTM A479 S32760
9	Hex HD Screw	ISO 3506 A4-70	ISO 3506 A4-70 ASTM A479 S32760
10	Washer	ASTM A 580 Type 316	ASTM A 580 Type 316 / S32760
**11	Set Screw	ISO 3506 A4-70	ISO 3506 A4-70 ASTM A479 S32760
**12	Sleeve Bearing	Bear-G	
13	Wedge Key	ASTM A479 SS410-L2 ASTM A479 SS316 / SS304 ASTM A564 17-4 Ph Type 630	ASTM A479 SS304/SS316 ASTM A182 F51/F55

Item	Description	*Standard Material	
		CI/DI/CS	SS/DSS
14	Hex Lock Nut	ISO 3506 A4-70	ISO 3506 A4-70 ASTM A479 S32760
15	Washer	ASTM A240 SS316	ASTM A240 SS316 ASTM A240 S32760
16	Stem Seal Holder	ASTM A240 SS304	ASTM A240 SS304 / SS316 ASTM A240 S31803/ S32760
**17	O-ring	NBR (BUNA-N)/EPDM/VITON/SILICONE	
**18	Retainer Circlip	Spring Steel IS 2507 70C6	Spring Steel ASTM A240 SS302
19	Top Plate	IS 2062 Gr-B ASTM A516 Gr. 70	ASTM A240 SS304 / SS316
20	Socket HD Cap Screw	ASTM A193 B7	ISO 3506 A4-70
**21	Thrust Bearing	Phosphor Bronze BS 1400 PB4	
22	Scoket HD Cap Screw	ISO 3506 A4-70	ISO 3506 A4-70 ASTM A479 S32760
**23	O-ring	NBR (BUNA-N)/EPDM/VITON/SILICONE	
24	Bottom plate	IS 2062 Gr-B ASTM A516 Gr. 70	ASTM A240 SS304 / SS316
25	Hex HD screw	ASTM A193 B7	ISO 3506 A4-70
26	Full Thread Stud	ISO 3506 A4-70	
27	Hex Nut	ISO 3506 A4-70	ISO 3506 A4-70 ASTM A479 S32760
28	Key	BS970 EN8 (080M40)	
29	Name plate	ASTM A240 SS304	

Silicone seat configuration applicable up to PN6 rating.
* Other materials may be available on request.
** Recommended spares
^ Ebonite lining for CI/DI/CS material of construction is avaliable from 14" and larger sizes.
DelVal® reserves rights to change the contents without notice.

CI- Cast Iron, DI-Ductile Iron, CS-Carbon Steel, SS-Stainless Steel,DSS - Duplex Stainless Steel

Standards and Specifications

DelVal® Series 55 / 5F / 5G Butterfly Valves are designed and manufactured to meet the requirements of the following industry standards:

****Design:** BS EN 593
Face to Face: API 609 table 3C Short Pattern, BS EN 558 Series 13, ISO 5752 Series 13, AWWA C516 Table1, BS EN 558 Series 16, ISO 5752 Series 16
Testing: BS EN 12266-1, API 598, ISO 5208
Flange Standard: ASME B16.5 Class 150, ASME B16.47 Class 150 Series A/B, AWWA C 207 Class E/D, BS EN 1092 and other international standard upon request.

Body Style: One-Piece
***Temp Range:** -29 °C to 200 °C
-20 °F to 390 °F
@Size Range: 3" to 120"

Seat Temperature Range

Seat Type	*Temperature Limits	
	Lower Limit	Upper Limit
EPDM	-20°F (-29 °C)	302 °F (150 °C)
NBR (BUNA-N)	0°F (-18 °C)	212°F (100 °C)
Viton®(FKM)	0°F (-18 °C)	390°F (200 °C)
#Silicone	-58°F (-50 °C)	390°F (200 °C)

Pressure Rating

Inch	DN	PSI	PN
3" to 24"	80 to 600	285	20
3" to 48"	80 to 1200	230	16
3" to 120"	80 to 3000	150	10
3" to 120"	80 to 3000	87	6
3" to 120"	80 to 3000	36	2.5

Viton® is registered trademark of E.I. Dupont.
*Temperature range shall be the lesser of the seat temperature or disc/body coating temperature.
#Silicone seat configuration applicable up to PN6 rating only.
**ANSI / AWWA C504, ANSI/ AWWA C516 design on request.
@Consult DelVal for sizes not available in the bulletin.

End-of-Line Service

Double flanged and Lug Valves may be used in end-of-line service with downstream piping removed. All valves are suitable for operation without downstream flange installed. The dead- end pressure ratings are equal to the valves stated above.

Operator Information



Valves up to size 8" can be supplied with lever handles for manual operation. Optional accessories for hand-lever operation can be provided for various flow controls requirements. Pad locking can also be provided for preventing unauthorized operation.



Valves of all sizes can be direct mounted with gear operators for manual operation. Gear operators can also be attached with chainwheel operators for opening or closing valves located on pipelines at high elevations.



All valves can be direct mounted with pneumatic actuators or electric actuators and accessories for complete on-off automation or modulating control. Valves can be mounted with manual overrides.

100% TESTING
100% SERIALIZATION

3-YEAR WARRANTY ON DELVAL PRODUCTS

CERTIFICATES

ISO 9001 QUALITY ASSURANCE MANAGEMENT

ISO 14001 ENVIRONMENTAL MANAGEMENT

ISO 45001 OCCUPATIONAL HEALTH & SAFETY

PED DIRECTIVE 2014/68/EU ANNEX III MODULE B CERTIFIED

TR CU 010, 012, 032 TECHNICAL REGULATION CU TR 010, 012, 032 / 2011



Manufacturing & Sales International
DelVal Flow Controls Pvt. Ltd.

Gat No: 25, Kavathe
Post-Javale, Tal. Khandala
Dist. Satara Pin-412801 | India
salesindia@delvalflow.com

Manufacturing & Sales Americas
DelVal Flow Controls USA

6535 Industrial Drive, Suite 103
Geismar, LA 70734 | USA
T: +1 833-DELVAL1
F: +1 225-744-4328
sales@delvalflow.com

Middle East
DelVal Flow Controls Middle East Company Ltd.

Factory No. 103, 3rd Industrial Area, Dammam| Saudi Arabia
T: +966 13 864 2040
salesmea@delvalflow.com

Australia
DelVal Flow Controls (ANZ) Pty Ltd.

Unit 6, 561 Great Western Highway, Werrington,
NSW 2747 | Australia
T: +61 (0)2 97431271
delvalanz@delvalflow.com

delvalflow.com

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