SERIES 58

Resilient Seated Butterfly Valves

Double Flanged

DelVal®
Flow Controls

3-YEAR WARRANTY ON DELVAL PRODUCTS

delvalflow.com

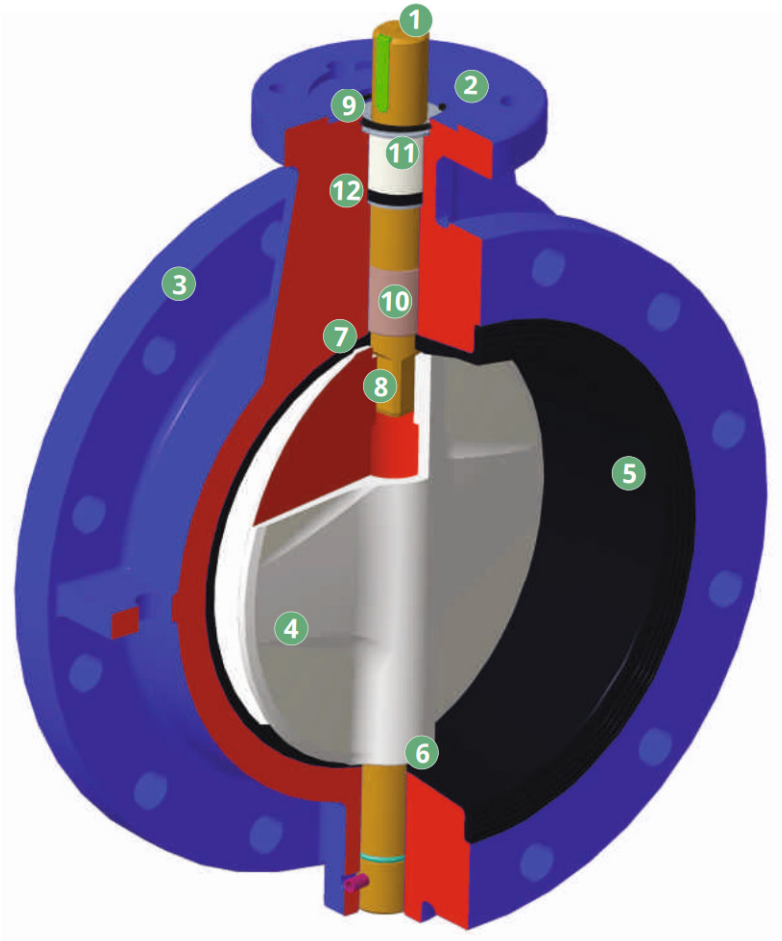
1-833-DELVAL1

STANDARD FEATURES

Quality & Performance

DelVal Flow Controls provides a wide range of quality products with the reliability you can count on. All Series 58 Valves are manufactured in ISO 9001 certified facilities with a robust quality management system and according to API 609 and BS EN 593 standards.

Design Construction and Features



1. Stem Connection
Stem connection is available in standard DelVal sizes.

2. ISO Top Plate Drilling
The top flange is drilled as per ISO 5211 to accommodate direct mounting of a wide range of actuators and manual operators.

3. Heavy Duty Body
Heavy duty one-piece body with two layers of hard, zinc phosphate epoxy coating with semi-gloss finish for excellent corrosion resistance. Standard construction ensures installation between ASME CL150/CL125 flanges.

4. Disc
High strength disc with polished edge and hubs. Nylon PA 12 coated disc option ensures excellent corrosion resistance to several chemical media. The hard, non-porous sintered polymer has very low hygroscopicity and resistance to greases, oils , fuels, hydraulic fluids, water, alkalis and many organic solvent.

5. Seat
In-situ molded seat provides complete isolation of flowing media from the body. The seat also features face o-rings which eliminates the use of flange gaskets.

6. Disc - Seat Sealing
Precision machined radius on the upper and lower disc hubs presses against upper and lower seat sealing faces to achieve primary sealing between disc and seat.

7. Secondary Seal
Double o-rings are molded in both upper and lower journals, providing a superior secondary seal.

8. Disc - Stem Connection
Dry stem journal reduces potential for leakage. Stem with close tolerance square or double-D drive eliminates the need of disc screws and taper pins.

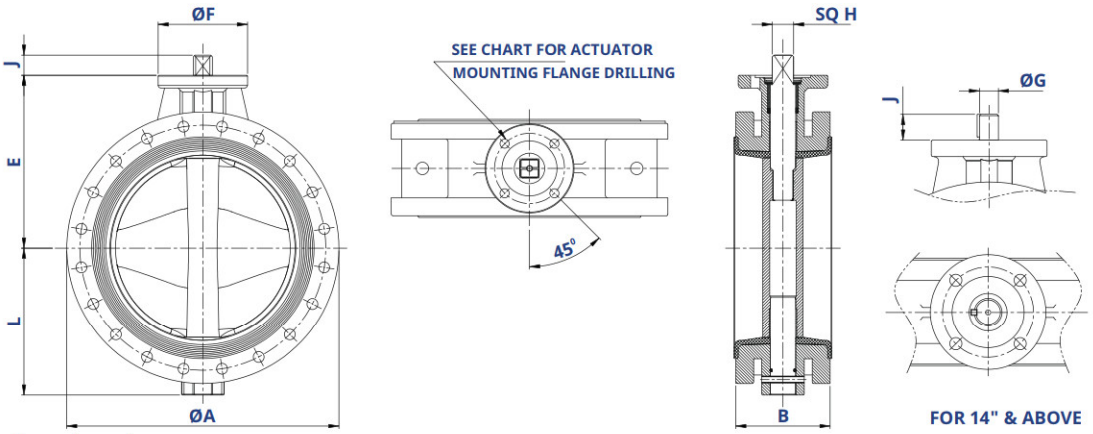
9. Stem Retention System
Unique stem retention system provides blow-out proof stem and easy assembly and disassembly of valve.

10. Bearings
The drive and non-drive end stem “Bear-G” bearings are made of high compressive strength polymers, which provide rigid stem support, reduce friction, and isolate stem from valve body.

11. Bushing
Heavy duty bushing absorbs the forces acting on the disc-stem assembly due to line pressure.

12. Stem Seal
Bi-directional ‘U’ cup stem seal.

DIMENSIONS AND WEIGHTS (DOUBLE FLANGED)



Dimensions (mm)

Valve Size		#ØA	*B	E	L	ØF	Top Flange Drilling			Sq. H	ØG	J	Key Size	App. Weight (kg)
Inch	DN						PCD	No. of Holes	Hole Dia.					
2	50	150	108	140	78	90	70	4	10	14	----	16	----	8.5
2.5	65	180	112	152	80	90	70	4	10	14	----	16	----	10.0
3	80	190	114	160	85	90	70	4	10	14	----	16	----	11.0
4	100	230	127	180	105	90	70	4	10	14	----	16	----	21.0
5	125	255	140	192	129	90	70	4	10	17	----	19	----	23.5
6	150	280	140	205	140	90	70	4	10	17	----	19	----	26.0
8	200	345	152	241	175	150	102/125	4	12/14	19	----	21	----	41.0
10	250	405	165	273	216	150	102/125	4	12/14	22	----	24	----	61.0
12	300	485	178	311	240	150	125	4	14	27	----	29	----	93.0
14	350	535	190	346	280	210	165	4	22	----	40.0	51	12.00 x 8.00	140.0
16	400	595	216	375	310	210	165	4	22	----	40.0	51	12.00 x 8.00	175.0
18	450	635	222	406	347	210	165	4	22	----	50.0	64	12.00 x 10.00	205.0
20	500	700	229	438	390	210	165	4	22	----	50.0	64	12.00 x 10.00	280.0
24	600	815	267	495	461	210	165	4	22	----	63.5	102	15.88 x 15.88	390.0
26	650	870	292	555	465	300	254	8	18	----	63.5	102	15.88 x 15.88	510.0
28	700	925	292	580	495	300	254	8	18	----	76.2	102	19.05 x 19.05	585.0
30	750	985	318	595	530	350	298	8	22	----	76.2	102	19.05 x 19.05	690.0
32	800	1060	318	670	568	350	298	8	22	----	76.2	102	19.05 x 19.05	810.0
36	900	1170	330	705	645	350	298	8	22	----	88.9	134	22.23 x 15.88	1030.0
40	1000	1290	410	782	726	415	356	8	33	----	101.6	134	25.40 x 19.05	1345.0
42	1050	1345	410	815	726	415	356	8	33	----	101.6	134	25.40 x 19.05	1630.0
44	1100	1405	470	845	738	415	356	8	33	----	101.6	134	25.40 x 19.05	1760.0
48	1200	1510	470	915	830	415	356	8	33	----	110.0	150	28.00 x 16.00	2050.0

Dimensions (Inch)

Valve Size		#ØA	*B	E	L	ØF	Top Flange Drilling			Sq. H	ØG	J	Key Size	App. Weight (lbs)
Inch	DN						PCD	No. of Holes	Hole Dia.					
2	50	6.00	4.25	5.51	3.07	3.54	2.76	4	0.39	0.55	----	0.63	----	19
2.5	65	7.00	4.41	5.98	3.15	3.54	2.76	4	0.39	0.55	----	0.63	----	22
3	80	7.50	4.49	6.30	3.35	3.54	2.76	4	0.39	0.55	----	0.63	----	24
4	100	9.00	5.00	7.09	4.13	3.54	2.76	4	0.39	0.55	----	0.63	----	46
5	125	10.00	5.51	7.56	5.08	3.54	2.76	4	0.39	0.66	----	0.75	----	52
6	150	11.00	5.51	8.07	5.51	3.54	2.76	4	0.39	0.66	----	0.75	----	57
8	200	13.50	5.98	9.49	6.89	5.90	4.01/4.92	4	0.47/0.55	0.74	----	0.83	----	90
10	250	16.00	6.50	10.75	8.50	5.90	4.01/4.92	4	0.47/0.55	0.86	----	0.94	----	132
12	300	19.00	7.01	12.24	9.44	5.90	4.92	4	0.55	1.06	----	1.13	----	205
14	350	21.00	7.48	13.62	11.02	8.26	6.50	4	0.86	----	1.57	2.00	0.39 x 0.31	309
16	400	23.50	8.51	14.76	12.20	8.26	6.50	4	0.86	----	1.57	2.00	0.39 x 0.31	386
18	450	25.00	8.74	15.98	13.66	8.26	6.50	4	0.86	----	1.97	2.50	0.47 x 0.39	452
20	500	27.50	9.02	17.23	15.35	8.26	6.50	4	0.86	----	1.97	2.50	0.47 x 0.39	617
24	600	32.00	10.51	19.48	18.15	8.26	6.50	4	0.86	----	2.50	4.00	0.62 x 0.62	838
26	650	34.25	11.50	21.85	18.31	11.81	10.00	8	0.71	----	2.50	4.00	0.62 x 0.62	1125
28	700	36.50	11.50	22.83	19.49	11.81	10.00	8	0.71	----	3.00	4.00	0.75 x 0.75	1290
30	750	38.75	12.52	23.43	20.87	13.78	11.73	8	0.86	----	3.00	4.00	0.75 x 0.75	1521
32	800	41.75	12.52	26.38	22.36	13.78	11.73	8	0.86	----	3.00	4.00	0.75 x 0.75	1786
36	900	46.00	12.99	27.76	25.39	13.78	11.73	8	0.86	----	3.50	5.25	0.88 x 0.62	2271
40	1000	50.75	16.14	30.79	28.58	16.33	14.02	8	1.30	----	4.00	5.25	1.00 x 0.75	2966
42	1050	53.00	16.14	32.09	28.58	16.33	14.02	8	1.30	----	4.00	5.25	1.00 x 0.75	3594
44	1100	55.25	18.50	33.27	29.06	16.33	14.02	8	1.30	----	4.00	5.25	1.00 x 0.75	3881
48	1200	59.50	18.50	36.02	32.68	16.33	14.02	8	1.30	----	4.33	5.51	1.10 x 0.63	4520

*Face to face dimension 'B' conforming to API 609 table 3C Short Pattern/BS EN 558 Series 13/ ISO 5752 Series 13.
Sizes 40"and above will have 2 keys 180 deg apart.
#Represents ASME B16.5 CL150/ASME B16.47 CL150 series A dimension.

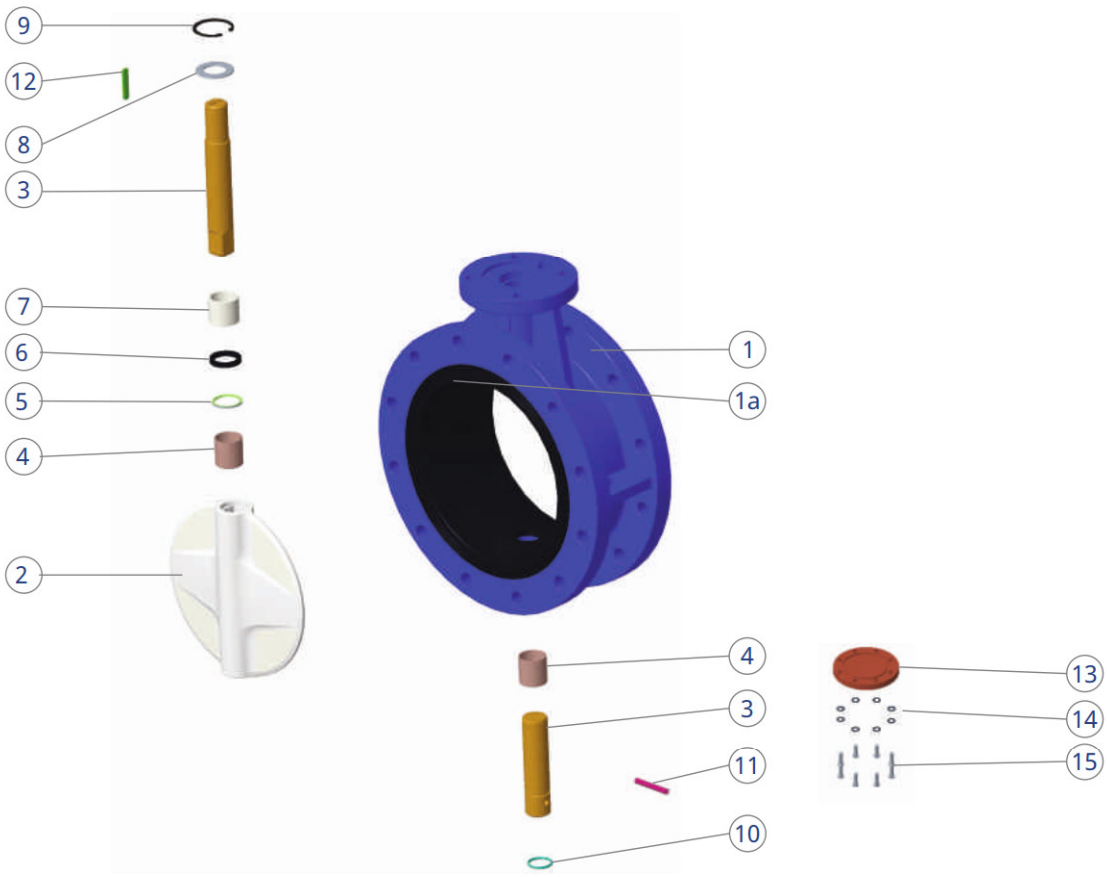
TORQUE DATA (Nm/Lbf-Inch)

Inch	DN	Differential Pressure (ΔP)											
		Undercut Disc		Standard Disc						Oversized Disc			
		PN 3.5/50 Psi		PN 6/87 Psi		PN 10/150 Psi		PN 12/175 Psi		PN 16/230 Psi		PN 20/285 Psi	
		Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch	Nm	Lbf-Inch
2	**50**	---	---	8	72	9	80	10	91	17	150	31	275
2.5	**65**	---	---	14	124	16	142	17	150	22	195	40	355
3	**80**	---	---	16	142	20	177	22	197	32	283	58	514
4	**100**	15	133	29	256	31	271	32	279	45	398	81	738
5	**125**	21	187	44	393	48	426	50	443	65	575	117	1036
6	**150**	30	267	62	545	66	582	70	620	110	974	132	1168
8	**200**	70	623	110	977	122	1083	128	1133	210	1859	252	2231
10	**250**	87	771	179	1586	198	1756	208	1841	319	2823	383	3390
12	**300**	142	1259	302	2677	337	2987	355	3146	468	4142	562	4974
14	**350**	244	2159	398	3527	450	3980	–	–	690	6106	863	7639
16	**400**	297	2627	500	4428	585	5178	–	–	925	8187	1156	10231
18	**450**	412	3649	822	7273	989	8756	–	–	1192	10550	1490	13188
20	**500**	484	4285	954	8441	1144	10126	–	–	1506	13329	1883	16666
24	**600**	734	6500	1410	12482	1760	15576	–	–	3029	26809	3786	33509
26	**650**	1063	9408	2202	19488	2750	24338	–	–	4200	37173	–	–
28	**700**	1266	11204	2640	23364	3320	29382	–	–	6204	54910	–	–
30	**750**	1465	12965	3083	27285	3900	34515	–	–	7493	66318	–	–
32	**800**	1755	15532	3715	32878	4740	41949	–	–	8782	77728	–	–
36	**900**	2342	20727	4975	44029	6420	56817	–	–	12142	107465	–	–
40	**1000**	3085	27302	6175	54649	8165	72260	–	–	16122	142691	–	–
42	**1050**	4317	38208	8475	75010	11300	100013	–	–	18838	166730	–	–
44	**1100**	4995	44209	9797	86710	13368	118316	–	–	21553	190760	–	–
48	**1200**	6328	56007	12430	110014	16950	150020	–	–	26984	238828	–	–

Note: Above torques are for clean media and do not contain any safety factor for the actuator sizing of other condition exist, a service factor should be applied. Please consult DelVal for specific service factor.

STANDARD MATERIALS OF CONSTRUCTION

2" to 24" Double Flanged



Part List

Item	Description	*Standard Material	
		CI/DI/CS	SS
1	Body	CI ASTM A126 Class B DI ASTM A395 60-40-18 ASTM A216 WCB	ASTM A351 CF8M/CF3M
1a	Seat (In-Situ Molded)	EPDM NBR (BUNA-N) Viton (FKM) #Silicone	
2	Disc	ASTM A536 65-45-12+ Nylon 12 Coated ASTM A536 65-45-12+ Aroxy Coated ASTM A216 WCB+Nylon 12 Coated ASTM A216 WCB+Aroxy Coated ASTM A351 CF8M/CF3M ASTM A995 4A/5A/6A NAB ASTM A148 C95800	ASTM A351 CF8M/CF3M ASTM A995 4A/5A/6A NAB ASTM A148 C95800
3	Stem (Upper/Lower)	ASTM A479 SS410-L2 ASTM A564 17-4 PH Type 630 ASTM A182 F51/F55 ASTM A479 SS316	

Item	Description	*Standard Material	
		CI/DI/CS	SS
4	Sleeve Bearing	Bear-G	
5	Packing Support	RPTFE	
6	Stem Seal (Double U-cup)	NBR (BUNA-N)	
7	Stem Bushing	RPTFE	
8	Stem Retainer	ASTM A240 SS304	
9	Retainer Circlip	ASTM A684 Gr.1070	ASTM A313 SS302
10	O-ring	NBR (BUNA-N)	
11	Spring Dowel Pin	ASTM A684 Gr. 1074	ASTM A313 SS302
12	Key (14 to 24'')	BS 970 EN8	
13	Bottom Plate (24")	ASTM A516 Gr. 70	ASTM A240 SS304
14	Punch Washer (24")	ASTM A240 SS304	
15	Hex Hd. Screw (24")	ISO 3506 A2-70	

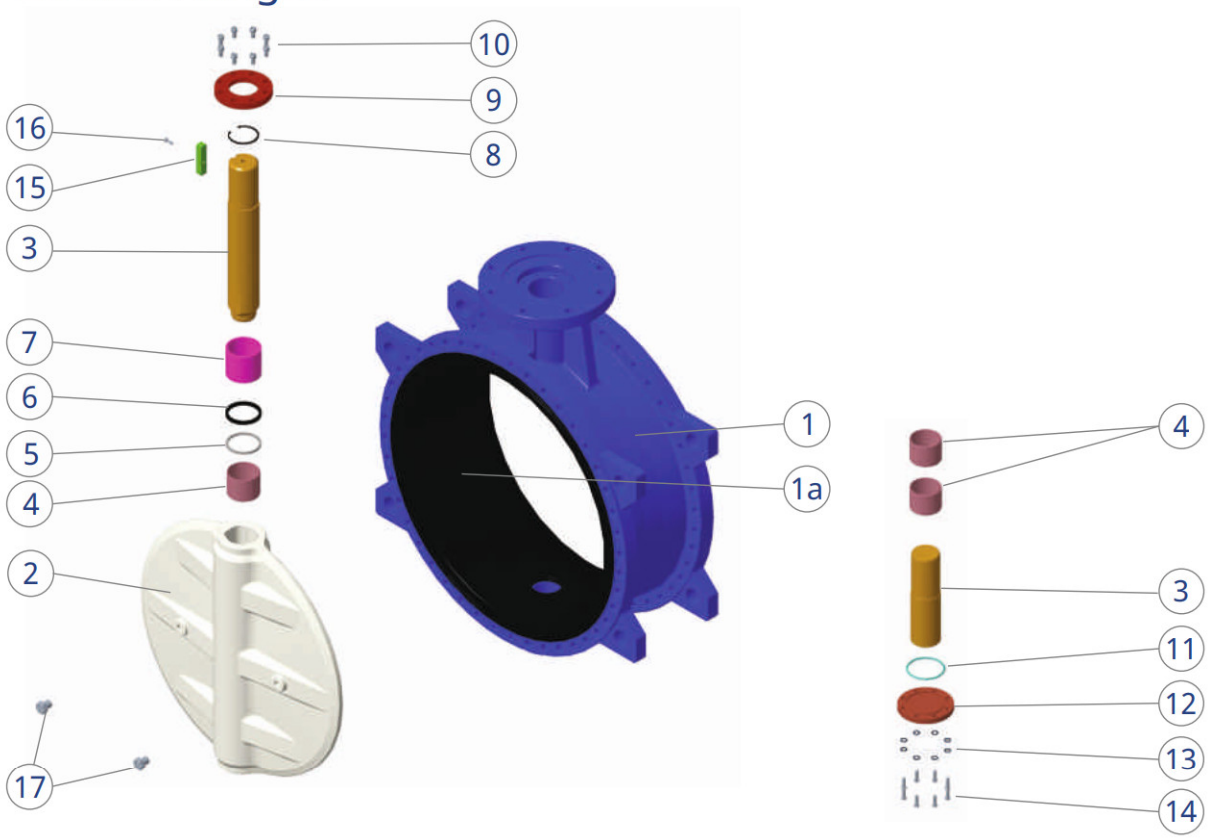
#Silicone seat configuration applicable up to PN6 rating only.

*Other materials may be available on request.

CI = Cast Iron, DI = Ductile Iron, CS = Carbon Steel, SS = Stainless Steel

STANDARD MATERIALS OF CONSTRUCTION

26" to 48" Double Flanged



Part List

Item	Description	*Standard Material	
		CI/DI/CS	SS
1	Body	CI ASTM A126 CLASS B DI ASTM A395 60-40-18 ASTM A216 WCB	ASTM A351 CF8M/CF3M
1a	Seat (In-Situ Molded)	EPDM NBR (BUNA-N) Viton (FKM) #Silicone	
2	Disc	AASTM A216 WCB+Nylon 12 Coated ASTM A216 WCB+Aroxy Coated ASTM A351 CF8M/CF3M ASTM A995 4A/5A/6A NAB ASTM A148 C95800	ASTM A351 CF8M/CF3M ASTM A995 4A/5A/6A NAB ASTM A148 C95800
3	Stem (Upper/Lower)	ASTM A479 SS410-L2 ASTM A564 17-4 PH Type 630 ASTM A182 F51/F55 ASTM A479 SS316	

Item	Description	*Standard Material	
		CI/DI/CS	SS
4	Sleeve Bearing	Bear-G	
5	Packing Support	RPTFE	
6	Stem Seal (Double U-cup)	NBR (BUNA-N)	
7	Stem Bushing	Phosphorous Bronze	
8	Retainer Circlip	ASTM A684 Gr. 1070	ASTM A313 SS302
9	Retaining Ring	ASTM A516 Gr. 70	ASTM A240 SS304
10	Soc. Hd. Screw	ISO 3506 A2-70	
11	O-ring Seal	NBR (BUNA-N)	
12	Bottom Cover	ASTM A516 Gr. 70	ASTM A240 SS304
13	Punch Washer	ASTM A240 SS304	
14	Hex Hd. Screw	ISO 3506 A2-70	
15	Key	BS 970 EN8	
16	Soc Hd. Cap Screw	ISO 3506 A2-70	
17	Plug	ISO 3506 A2-70	

#Silicone seat configuration applicable up to PN6 rating only.

*Other materials may be available on request.

CI = Cast Iron, DI = Ductile Iron, CS = Carbon Steel, SS = Stainless Steel

Standards and Specifications

DelVal Series 58 Butterfly Valves are designed and manufactured to meet the requirements of the following industry standards:

Design: API 609, BS EN 593
Face to Face: API 609 table 3C Short Pattern, BS EN 558 Series 13, ISO 5752 Series 13
Testing: API 598, BS EN 12266-1
Flange Standard: ASME B16.5 Class 150, ASME B16.47 Class 150 Series A/B other international standard upon request.

Body Style: One-Piece
***Temp Range:** -29°C to 200°C
-20°F to 390°F
Size Range: 2" to 48"

*Seat Temperature Range

Seat Type	*Temperature Range	
	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	PSIG	BARG
2" to 12"	50 to 300	175	12.0
2" to 24"	50 to 600	285	20.0
2" to 48"	50 to 1200	230	16.0
2" to 48"	50 to 1200	150	10.0
2" to 48"	50 to 1200	87	6.0
2" to 48"	50 to 1200	50	3.5

Viton® is registered trademark of E.I. DuPont.
*Temperature range shall be the lesser of the seat temperature or disc coating temperature.
#Silicone seat configuration applicable up to PN6 rating only.

End-of-Line Service
Valves may be used in end-of-line service with downstream piping removed equal to the values stated above.

Operator Information

Valves up to size 12"can be supplied with lever handles for manual operation. Optional accessories for hand-lever operation can be provided for various flow control 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 chain-wheel 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 3 ON DELVAL PRODUCTS

CERTIFICATES

QUALITY ASSURANCE MANAGEMENT ISO 9001 ✓

ENVIROMENTAL MANAGEMENT ISO 14001 ✓

OCCUPATIONAL HEALTH & SAFETY ISO 45001 ✓

BUTTERFLY VALVES CAT. A & B API 609 CAT A&B ✓

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

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

6068 Highway 73
Geismar, Louisiana 70734 | USA
T: +1 833-DELVAL1
F: +1 225-744-4328
sales@delvalflow.com

DelVal Arizona
DelVal Flow Controls USA

1120 W Alameda Dr., Suite 3
Tempe, Arizona 85282 | USA
T: +1 623-215-7146
F: +1 623-215-7187
sales@delvalflow.com

International Projects
DelVal Flow Controls USA

77 Sugar Creek Center Blvd.,
Suite 600
Sugar Land, Texas 77478 | USA
T: +1 833-DELVAL1
projects@delvalflow.com