DelVal Series 58 Double Flanged Butterfly Valve

The Series 58 is DelVal's double flanged butterfly valve with a resilient seat for higher pressures, covering 2" to 48" (DN 50 to 1200): 285 PSIG (PN 20) up to 24" and 230 PSIG (PN 16) from 26" to 48".



Key data	
Size range	2" to 48" (DN 50 to 1200)
Pressure rating	2" to 24" – 285 PSIG (PN 20); 26" to 48" – 230 PSIG (PN 16)
Body style	Series 58 – Double Flanged
Seat	EPDM, Buna-N, FKM

Pressure and temperature ratings

Seat temperature limits

Seat	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 by size

Size (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

Design and testing standards

Item	Detail
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
Size range	2" to 48"

Operating torque

Seating and unseating torque (Nm)

Size (inch)	DN	3.5 bar (50 psi) undercut disc	6 bar (87 psi)	10 bar (150 psi)	12 bar (175 psi)	16 bar (230 psi) oversized disc	20 bar (285 psi) oversized disc
2	50	–	8	9	10	17	31
2.5	65	–	14	16	17	22	40
3	80	–	16	20	22	32	58
4	100	15	29	31	32	45	81
5	125	21	44	48	50	65	117
6	150	30	62	66	70	110	132
8	200	70	110	122	128	210	252
10	250	87	179	198	208	319	383
12	300	142	302	337	355	468	562
14	350	244	398	450	–	690	863
16	400	297	500	585	–	925	1156
18	450	412	822	989	–	1192	1490
20	500	484	954	1144	–	1506	1883
24	600	734	1410	1760	–	3029	3786
26	650	1063	2202	2750	–	4200	–
28	700	1266	2640	3320	–	6204	–
30	750	1465	3083	3900	–	7493	–
32	800	1755	3715	4740	–	8782	–
36	900	2342	4975	6420	–	12142	–
40	1000	3085	6175	8165	–	16122	–
42	1050	4317	8475	11300	–	18838	–
44	1100	4995	9797	13368	–	21553	–
48	1200	6328	12430	16950	–	26984	–

Seating and unseating torque in Nm at the differential pressure shown, for clean media, without a safety factor. Ask UEC to apply the service factor for your medium when sizing an actuator.

Materials of construction

Silicone seat is available up to PN 6 only.
CI = cast iron, DI = ductile iron, CS = carbon steel, SS = stainless steel.

2" to 24"

Item	Part	CI / DI / CS body	SS body
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	Same as CI / DI / CS body
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	Same as CI / DI / CS body
4	Sleeve Bearing	Bear-G	Same as CI / DI / CS body
5	Packing Support	RPTFE	Same as CI / DI / CS body
6	Stem Seal (Double U-cup)	NBR (BUNA-N)	Same as CI / DI / CS body
7	Stem Bushing	RPTFE	Same as CI / DI / CS body
8	Stem Retainer	ASTM A240 SS304	Same as CI / DI / CS body
9	Retainer Circlip	ASTM A684 Gr.1070	ASTM A313 SS302
10	O-ring	NBR (BUNA-N)	Same as CI / DI / CS body

Item	Part	CI / DI / CS body	SS body
11	Spring Dowel Pin	ASTM A684 Gr. 1074	ASTM A313 SS302
12	Key (14 to 24'')	BS 970 EN8	Same as CI / DI / CS body
13	Bottom Plate (24")	ASTM A516 Gr. 70	ASTM A240 SS304
14	Punch Washer (24")	ASTM A240 SS304	Same as CI / DI / CS body
15	Hex Hd. Screw (24")	ISO 3506 A2-70	Same as CI / DI / CS body

26" to 48"

Item	Part	CI / DI / CS body	SS body
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	Same as CI / DI / CS body
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	Same as CI / DI / CS body
4	Sleeve Bearing	Bear-G	Same as CI / DI / CS body
5	Packing Support	RPTFE	Same as CI / DI / CS body
6	Stem Seal (Double U-cup)	NBR (BUNA-N)	Same as CI / DI / CS body
7	Stem Bushing	Phosphorous Bronze	Same as CI / DI / CS body
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	Same as CI / DI / CS body
11	O-ring Seal	NBR (BUNA-N)	Same as CI / DI / CS body
12	Bottom Cover	ASTM A516 Gr. 70	ASTM A240 SS304
13	Punch Washer	ASTM A240 SS304	Same as CI / DI / CS body
14	Hex Hd. Screw	ISO 3506 A2-70	Same as CI / DI / CS body
15	Key	BS 970 EN8	Same as CI / DI / CS body
16	Soc Hd. Cap Screw	ISO 3506 A2-70	Same as CI / DI / CS body
17	Plug	ISO 3506 A2-70	Same as CI / DI / CS body

Dimensions and weights

Weights are approximate.

Dimensions (mm) and weight (kg)

Size (inch)	DN	Flange outside dia. ØA	Face to face B	Centre to top E	Centre to bottom L	Top flange dia. ØF	Top flange PCD	Holes	Hole dia.	Square stem	Stem dia. ØG	Stem height J	Key	Weight (kg)
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

Face to face B conforms to API 609 Table 3C short pattern, BS EN 558 Series 13 and ISO 5752 Series 13.
Flange outside diameter ØA is the ASME B16.5 Class 150 / ASME B16.47 Class 150 Series A dimension.
Sizes 40" and above have two keys, 180° apart.

For a quotation, send the size, pressure rating, materials, operator and quantity to UEC by phone, WhatsApp or email. Inch and pound tables are on the product page at www.unitedengg.co.in/valves/delval/series-58-double-flanged-butterfly-valve. Data as published by DelVal Flow Controls; DelVal and DelTorq are trademarks of DelVal Flow Controls.