

SERIES 58

Resilient Seated Butterfly Valves

Double Flanged



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. ISO Top Flange

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

2. Heavy Duty Body

Heavy duty double flanged body standard construction ensures installation between ASME CL 150 / CL 125.

3. Disc

High strength disc with polished edge and hubs. Optional Nylon PA 12 coated disc ensures excellent resistance to several chemical media. The hard, non-porous sintered polymer has very low hygroscopicity and is suitable for use in drinking water and non-alcoholic food safe applications.

4. 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.

5. Stem

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

6. Secondary Seal

Double O-rings are molded in both upper and lower journals providing a superior secondary seal.

7. Stem Retention System

Unique stem retention system provides anti-blowout stem, and easy assembly and disassembly of valve.

8. Bushing

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

9. Bearings

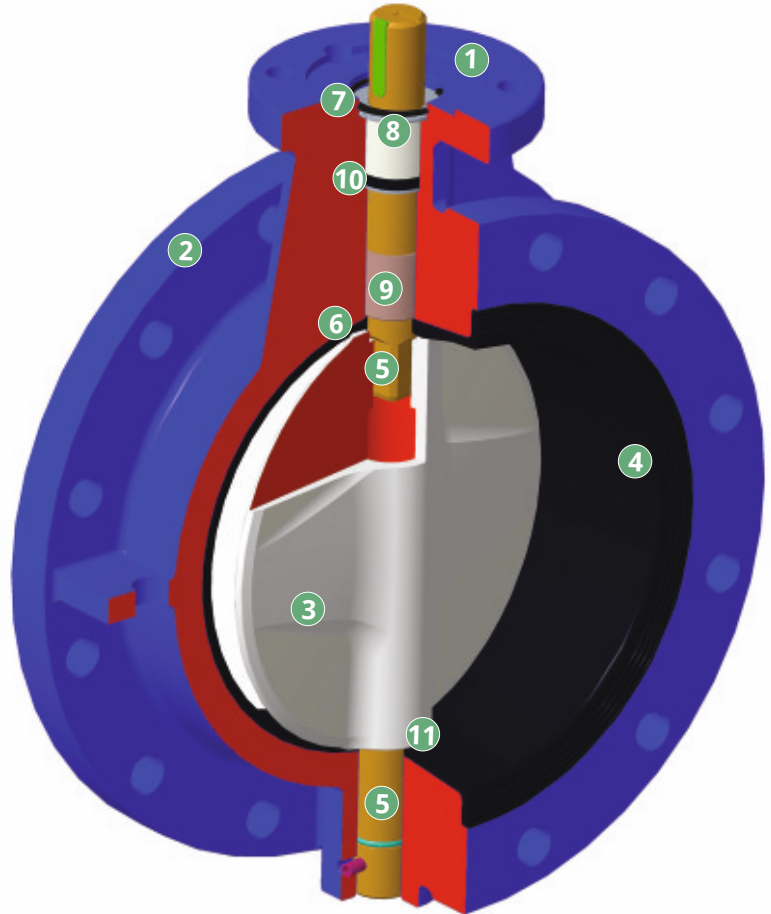
The drive and non-drive end stem "Bear- G" bearings are made of high compressive strength polymers, which provides rigid stem support, reduces friction, and isolates stem from valve body.

10. Stem Seal

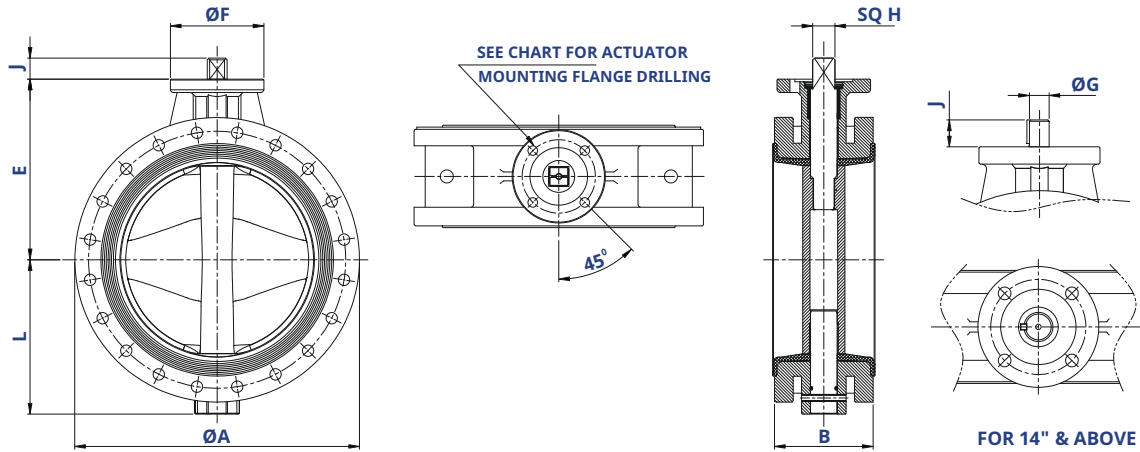
Bi-directional 'U' cup stem seal.

11. Disc - Stem Sealing

Precision machined radius on the upper and lower disc hubs is pressed against upper and lower seat sealing faces for achieving primary sealing between disc and seat.



DIMENSIONS AND WEIGHTS (DOUBLE FLANGED)



DIMENSIONS (mm)

VALVE SIZE		Ø A	*B	E	L	Ø F	TOP FLANGE DRILLING			Sq. H	Ø G	J	KEY SIZE	App. Weight (kg)
INCH	DN						BC	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	106	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	10.00 x 10.00	140.0
16	400	595	216	375	310	210	165	4	22	----	40.0	51	10.00 x 10.00	175.0
18	450	635	222	406	347	210	165	4	22	----	50.0	64	10.00 x 12.00	205.0
20	500	700	229	438	390	210	165	4	22	----	50.0	64	10.00 x 12.00	280.0
24	600	815	267	495	446	210	165	4	22	----	63.5	102	15.88 x 15.88	390.0
26	650	870	292	555	475	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	640	350	298	8	22	----	88.9	134	22.23 x 15.88	1030.0
40	1000	1290	410	782	675	350	298	8	22	----	101.6	134	25.4 x 19.05	1345.0
42	1050	1345	410	815	726	415	356	8	33	----	101.6	134	25.4 x 19.05	1630.0
44	1100	1405	470	845	740	415	356	8	33	----	101.6	134	25.4 x 19.05	1760.0
48	1200	1510	470	915	800	415	356	8	33	----	110.0	140	28.00 x 16.00	2050.0

DIMENSIONS (Inch)

VALVE SIZE		Ø A	*B	E	L	Ø F	TOP FLANGE DRILLING			Sq. H	Ø G	J	KEY SIZE	App. Weight (lbs)
INCH	DN						BC	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	4.21	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 0.39	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 0.39	386
18	450	25.00	8.74	15.98	13.66	8.26	6.50	4	0.86	----	1.97	2.50	0.39 x 0.47	452
20	500	27.50	9.02	17.23	15.35	8.26	6.50	4	0.86	----	1.97	2.50	0.39 x 0.47	617
24	600	32.00	10.51	19.48	17.56	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	18.70	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	19.48	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	25.19	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	26.57	13.78	11.73	8	0.86	----	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	29.13	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	31.50	16.33	14.02	8	1.30	----	4.33	0.00	1.10 x 0.63	4520

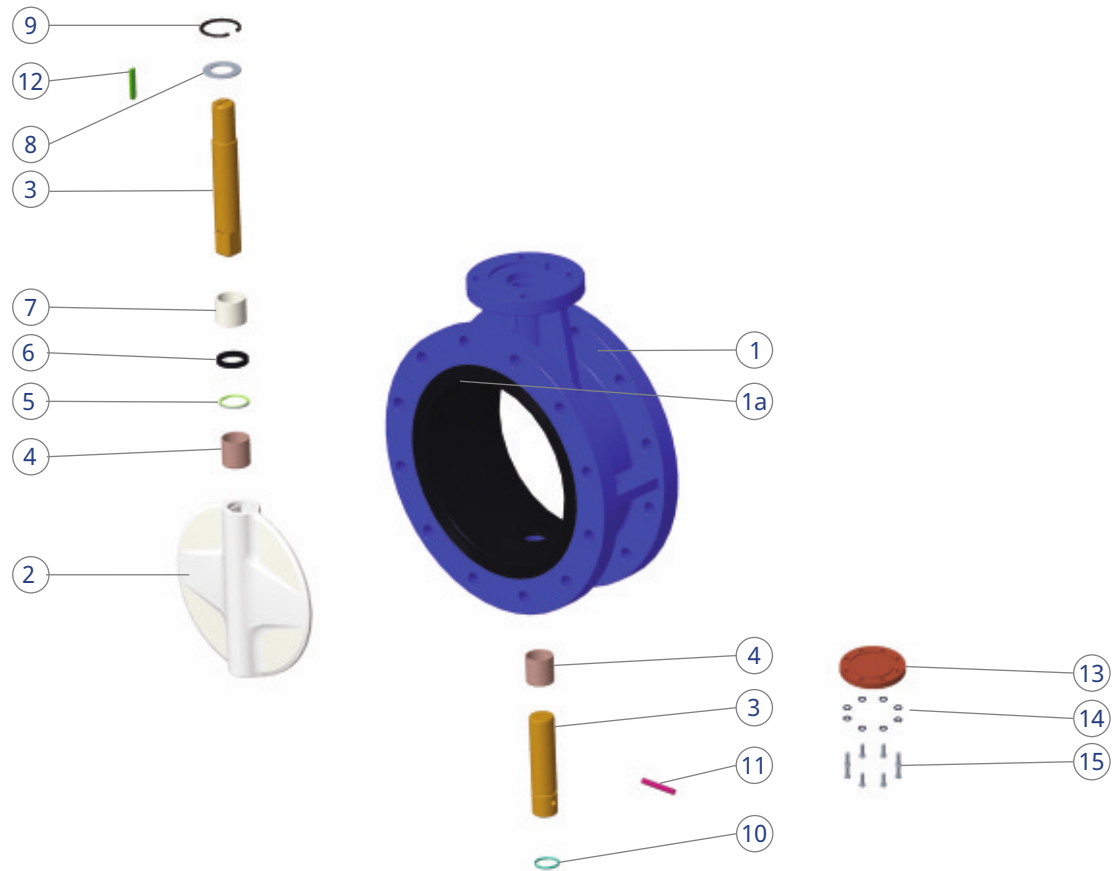
*Face to face dimension 'B' conforming to API 609 table 3C Short Pattern / BS EN 558 Series 13 / ISO 5752 Series 13, sizes 40" and above will have 2 keys 180 deg apart.

TORQUE DATA (Nm/Lbf-in)

INCH	DN	DIFFERENTIAL PRESSURE (ΔP)											
		PN 3.5 / 50 Psi (Undercut Disc)		PN 6 / 100 Psi		PN 10 / 150 Psi		PN 12 / 175 Psi		PN 16 / 230 Psi		PN 20 / 285 Psi	
		Nm	Lbf-in	Nm	Lbf-in	Nm	Lbf-in	Nm	Lbf-in	Nm	Lbf-In	Nm	Lbf-In
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	-	-

STANDARD MATERIALS OF CONSTRUCTION

(2" to 24")



Part List

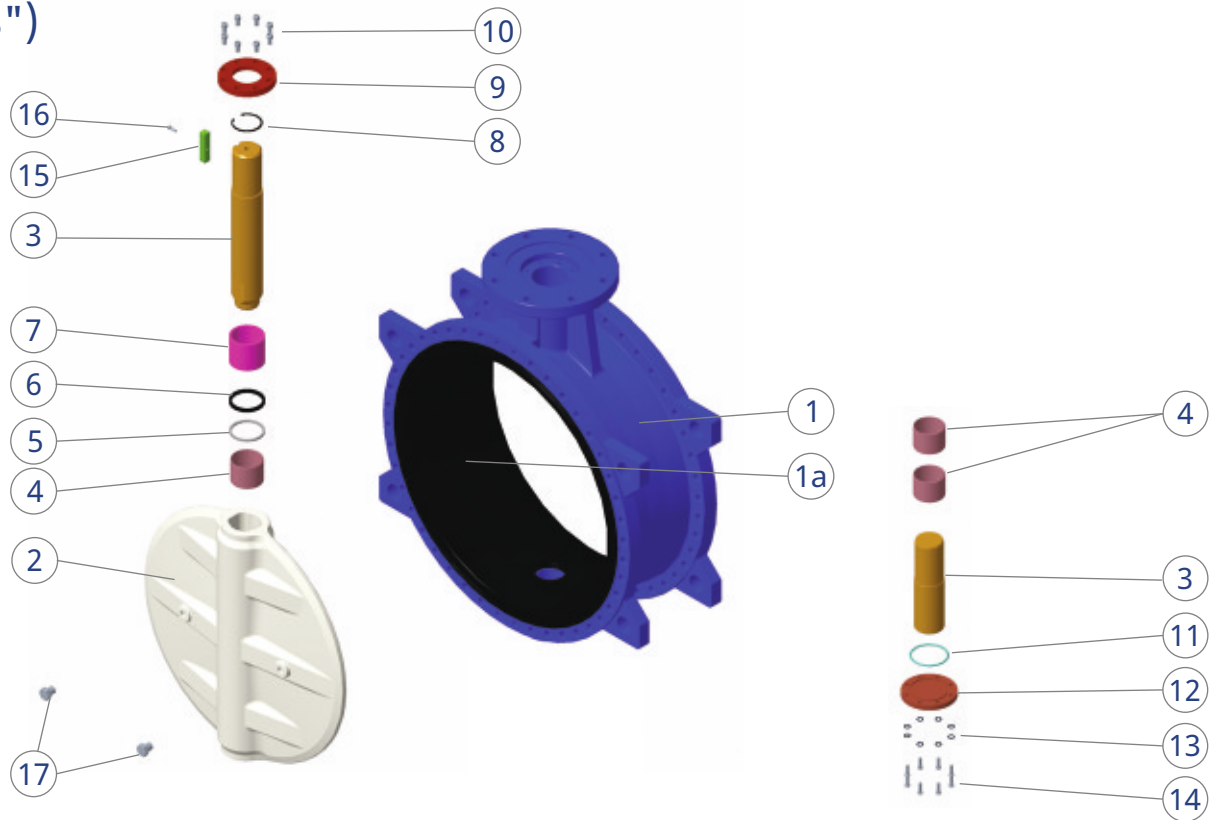
Item	Description	Standard Material*
1	Body	ASTM A126 Class B ASTM A395 60-40-18 ASTM A216 WCB ASTM A351 CF8M / CF3M
1a	Seat	EPDM NBR (BUNA-N) Viton® (FKM)
2	Disc	ASTM A536 65-45-12 + NYLON 12 COATED ASTM A536 65-45-12 + AROXY COATED ASTM A351 CF8M / CF3M NAB ASTM B148 C95800
3	Stem (Upper / Lower)	ASTM A479 SS410-L2 ASTM A564 17-4 PH Type 630 ASTM A182 F51 / F55 ASTM A479 SS316
4	Sleeve Bearing	Bear-G
5	Packing Support	RPTFE
6	Stem Seal (Double U-cup)	NBR (BUNA-N)

Item	Description	Standard Material*
7	Stem Bushing	Polyacetal 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")	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

*Other materials may be available on request.

STANDARD MATERIALS OF CONSTRUCTION

(26" to 48")



Part List

Item	Description	Standard Material*
1	Body	ASTM A126 Class B ASTM A395 60-40-18 ASTM A216 WCB ASTM A351 CF8M / CF3M
1a	Seat	EPDM NBR (BUNA-N) Viton® (FKM)
2	Disc	ASTM A536 65-45-12 + NYLON 12 COATED ASTM A536 65-45-12 + AROXY COATED ASTM A351 CF8M / CF3M NAB ASTM B148 C95800
3	Stem (Upper / Lower)	ASTM A479 SS410-L2 ASTM A564 17-4 PH Type 630 ASTM A182 F51 / F55 ASTM A479 SS316
4	Sleeve Bearing	Bear-G
5	Packing Support	RPTFE
6	Stem Seal (Double U-cup)	NBR (BUNA-N)

Item	Description	Standard Material*
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	En8
16	SOC HD.Cap Screw	ISO 3506 A2-70
17	Plug	ISO 3506 A2-70

*Other materials may be available on request.

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 other international standard upon request.

Body Style: One-Piece

Rating: 2" to 24" PN20 / 285 Psi max.
26" to 48" PN16 / 230 Psi max.

Temp Range*: -29°C to 200°C,
-20°F to 390°F

Size Range: 2" to 48"

Seat Temperature Range*

Seat Type	Temperature Range	
	Min.	Max
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)

*Temperature range shall be the lesser of the seat temperature or disc coating temperature.

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



CERTIFICATES



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