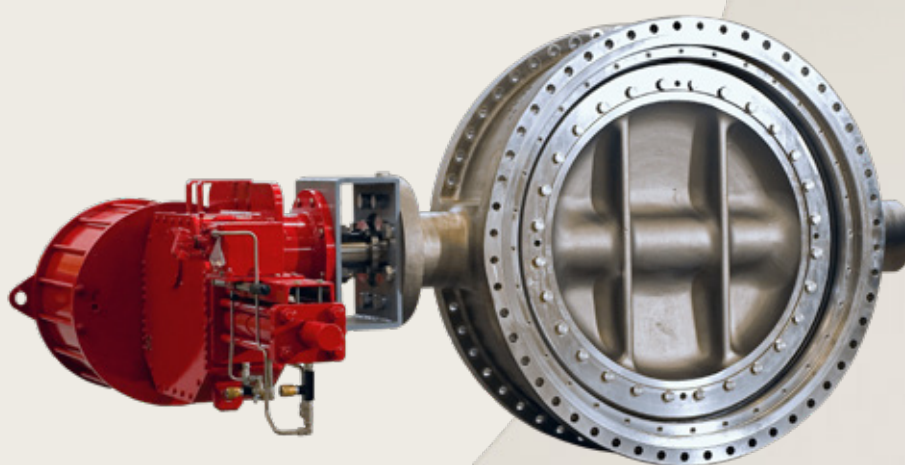




Process Automation

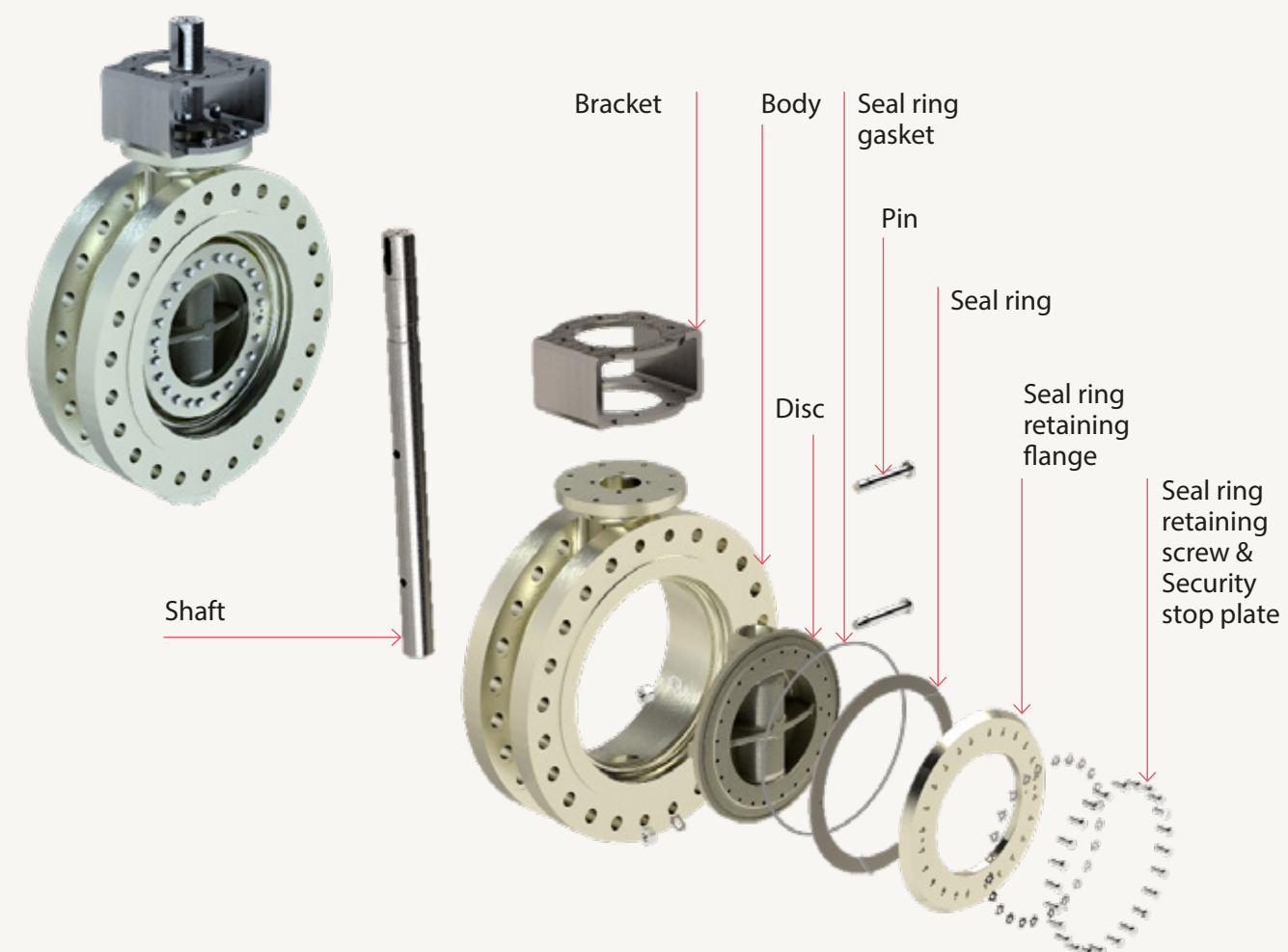
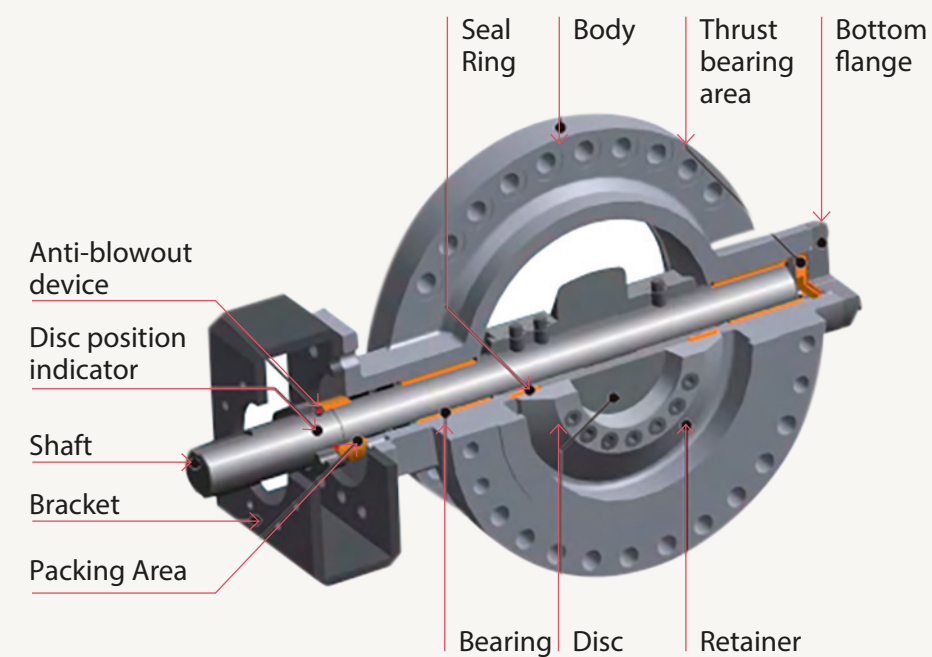
IMI Orton



Breakthrough
engineering for
a better world

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IMI Orton Triple Eccentric Metal Seated Valves

Customers worldwide specify our MV Series valves in their applications because of their unique combination of reliability on isolation, control capability, and compactness. This makes them fit for purpose in critical high pressure, tight shut-off, high temperature or cryogenic, throttling and isolation duties.

Unique design

The unique design of our MV Series valves guarantees:

- Wear prevention
- Zero leakage
- Longer service life
- Lower operating torques
- Bidirectional Tight Shut Off
- Tight seal from bi-directional pressure
- Corrosion and erosion resistance

One-piece seat integrated in valve body

- Conical and inclined seat
- Ultimate rigidity
- Leak-free performance
- Uninterrupted flange sealing surface

One-piece shaft and disc arrangement

- Minimal hysteresis
- Improves flow capability
- Reduces pressure drop

Anti-blow out system designed in accordance with API 609.

Special protector rings on bearings offer immunity to dirt and polymeric media creating a longer service life.

In addition, adjustable stuffing box allows flushing, additional sealing, leakage control or monitoring.

Key features

- Triple eccentric design
- Resilient metal-to-metal seal
- Full metal construction
- Zero leakage bi-directional tight shut-off
- Quarter turn friction-free operation
- Fire-safe and fire-tested
- Integral external position indicator on valve shaft and body
- Wide range of materials and sizes
- Compact design

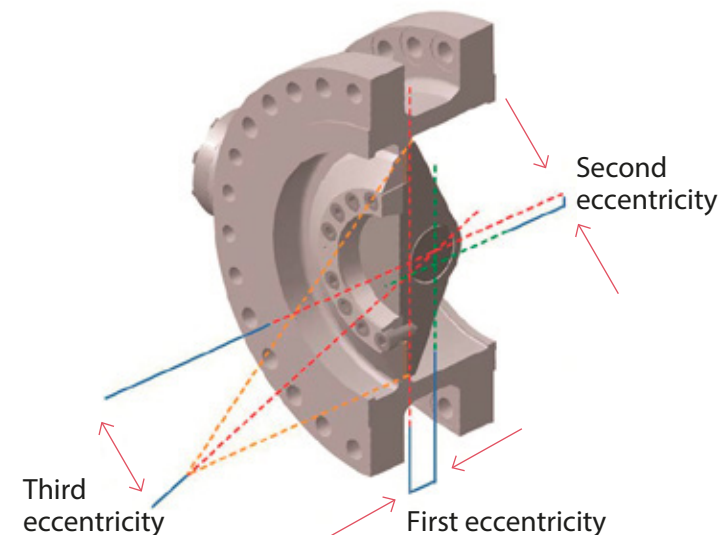
Engineered for Superior Performance

MV-series valve discs include a resilient, laminated metal seal ring, composed of alternating layers of corrosion-resistant alloy and composite graphite.

Each individual lamination provides an independent seal, unaffected by damage to the others. While improving long-term sealing properties, the resilience of the laminated design also allows lower operating torques. (For high temperature and more severe applications, a hardened, non-laminated seal ring is available.)

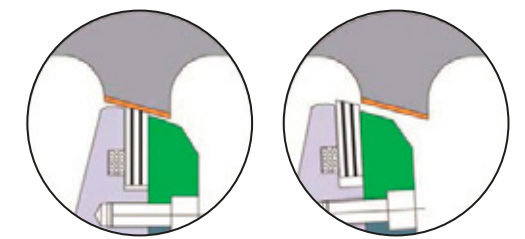
Assembled on the disc, the seal ring is engineered with tolerance to allow radial compression and flexing when torque is applied to close the valve. Consequently, the valve seals tightly even when pressurized from the reverse direction.

In addition, the resiliency of the seal ring compensates for differences in expansion rates between body and trim.



Main benefits

- Unique design
- One-piece seat integrated body
- One-piece shaft and disc arrangement
- Special bushings
- Anti-blowout device
- Adjustable stuffing box
- Laminated or solid seal ring



Seal ring seated

Seal ring prior to seating

Optional Solutions



- Replaceable Seat
- Evolutionary solution for critical applications
 - Easy maintenance at site
 - No welding involved in seat area
 - Wide selection of seat material



- Top-entry Cryogenic
- Cryogenic by design
 - On-line inspection and maintenance capability
 - Reliable solution for LNG applications



- Steam Jacket & Traced
- Minimize thermal losses
 - Ideal for all sulfur recovery and tail gas applications



- Solid Seal Ring
- Ideal for critical service
 - Enhanced performances at high temperatures



- MVF / MVF1 / MVF2
- Drilled hole partial baffle on body seat and/or disc
 - Anticavitation / low noise customizable trim

Suitable applications

Our MV valve can be installed in a wide range of application:

- LNG
- Hydrocarbons
- Steam / geothermal steam
- Hot gas / sour gas (NACE)
- Oxygen
- Gaseous and Liquid Hydrogen
- Sulphur recovery
- Acid / caustic / chloride
- Abrasive service
- Emergency shut down / Blow down
- Waterworks and water transmission lines



Size Range
DN 2" to 160"

Pressure Class
Class 150 to 2500 (ANSI Rating)

Temperature Range
-254°C to +818 °C / -425 °F to +1600°F

Pressure limits
From Full Vacuum up to + 430Bar

Applicable Standards
Design ANSI B16.34 / ASME VIII

Face to Face API 609 / ISO 5752 / ASME B16.10

Flange ANSI / UNI / ISO / AWWA / Compact Flange

Testing API 598 / ISO 5208

Body style

Wafer & lugged	Butt Weld / Butt Weld Top Entry	Special execution on request
Double Flanged		

Main Materials

WCB	Alloy steel WC6, WC9
CF8M, CF3M	Inconel
LCB, LCC, LC3	Alloy 20
Duplex	Aluminium bronze
Super duplex	Titanium
Monel	C5, C12
Hastelloy	
254 SMO	



Typical Materials and Specifications

	Standard C5	Standard LTC5	Standard S5
Body	A216 WCB	ASTM A352 LCB / LCC	A351 CF8M/CF8/CF3M/CF3
Body seat	W.O.SEAT ST. GR.21	W.O.SEAT ST. GR.21	W.O.SEAT ST. GR.21
Disc	A216 WCB	ASTM A352 LCB / LCC	A351 CF8M/CF8/CF3M/CF3
Shaft	ASTM A182 Gr.F6A CL.III	ASTM A564 Tp.630 H1150 D (17-4 PH)	ASTM A479 XM19 UNS S20910
Seal ring	ASTM A240 UNS S31803 (Duplex) + Graphite	ASTM A240 UNS S31803 (Duplex) + Graphite	ASTM A240 UNS S31803 (Duplex) + Graphite
Packing	High density graphite	High density graphite	High density graphite

	WC6 / WC9	Duplex	Super Duplex
Body	A217 WC6 / WC9	ASTM A995 GR. 4A	ASTM A995 GR. 5A/6A
Body seat	W.O.SEAT ST. GR.21	W.O.SEAT ST. GR.21	ASTM A995 GR. 5A/6A
Disc	A217 WC6 / WC9	ASTM A995 GR. 4A	ASTM A995 GR. 5A/6A
Shaft	ASTM A182 Gr.F6A CL.III / (ASTM A479 XM19 UNS S20910)	UNS S32750 (Super Duplex)	UNS S32750/S32760 (Super Duplex)
Seal ring	ASTM A240 UNS S31803 (Duplex) + Graphite / Solid 316/ Inconel 625)	ASTM A240 UNS S31803 (Duplex) + Graphite	ASTM A240 UNS S32750/32760 (Super Duplex) + Graphite
Packing	High density graphite	High density graphite	High density graphite

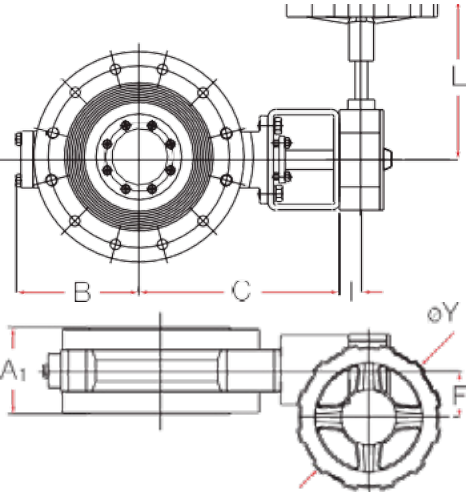
	Titanium	Inconel®	Bz - Al
Body	ASTM B367 Gr.C2 / C3	INCONEL 625 (UNS N06625)	B148 C95800
Body seat	ASTM B367 Gr.C2 / C3	W.O.SEAT ST. GR.21	B148 C95800
Disc	ASTM B367 Gr.C2 / C3	INCONEL 625 (UNS N06625)	B148 C95800
Shaft	ASTM B348 Gr.5	INCONEL 718 (UNS N07718)	Monel K500
Seal ring	ASTM B348 Gr.2 + H.D.G.	INCONEL 625 + H.D.G. / UNS N06625	Monel 400 + PTFE / Monel 400 + graphite
Packing	High density graphite	High density graphite	PTFE / High density graphite

	SS Cryogenic Double Flanged	SS Cryogenic Butt Weld Top Entry
Body	A351 CF8M/CF8/CF3M/CF3	A351 CF8M/CF8/CF3M/CF3
Body seat	W.O.SEAT ST. GR.21	Repl. Seat ASTM A240 Tp. 316/316L
Disc	A351 CF8M/CF8/CF3M/CF3	A351 CF8M/CF8/CF3M/CF3
Shaft	ASTM A479 XM19 UNS S20910	ASTM A479 XM19 UNS S20910
Seal ring	ASTM A240 Tp. 316/316L	ASTM A240 Tp. 316/316L+ Graphite
Packing	High density graphite	High density graphite

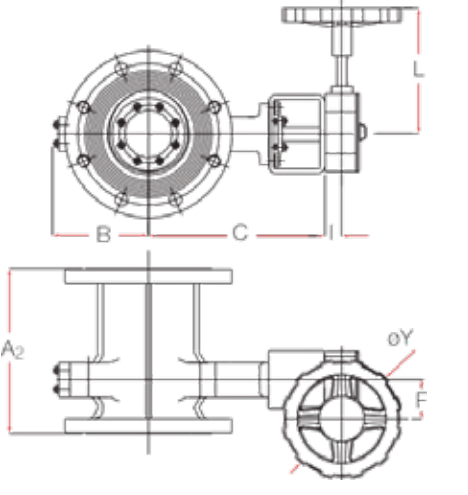
Other materials available on request.

Overall Dimensions

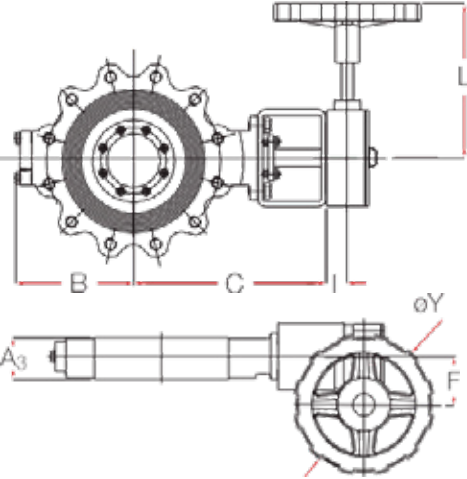
Model MV: Double Flanged
API 609 Table 3C / ISO 5752 Col. 13 & 14



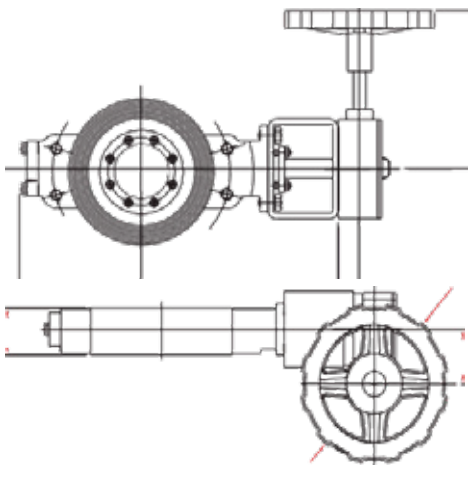
Model MV: Double Flanged Long API 609 Table 3B



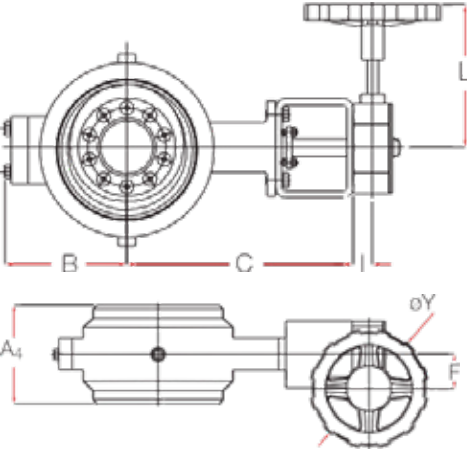
Model MV: Lug API 609 Table 3A



Model MV: Wafer API 609 Table 3A



Model MV: Lug API 609 Table 3A



SI Unit

Class 150 & Class 300

DN	Face to face (Inches)					Other dimensions (Inches)										Weights (Lbs) (valve + gear)				
	DFS		DFG		WAF & LUG	BWE										DFS	DFG	WAF	LUG	BWE
	Double flanged		ANSI B16.10		Wafer & Lug	Butt - Weld										Double flanged	ANSI B16.10	Wafer	Lug	Butt-Weld
	A1	A2	A3	A4			B	C	L	I	Y	F								

Class 150 & Class 300

2"	109	178	43	150	100	241	157.5	26.5	100	42.5	27	27	24	24	23
2"1/2	112	191	46	170	130	241	157.5	26.5	100	42.5	27	28	24	26	27
3"	114	203	48	180	130	241	217	28.6	200	52	28	30	26	27	33
4"	127	229	54	190	142	254	217	28.6	200	52	37	42	26	27	41
5"	140	254	57	200	180	265	217	28.6	200	52	43	47	24	25	39
6"	140	267	57	210	180	277	247	28.6	250	52	45	49	27	28	42
8"	152	292	64	230	215	322	297	40.5	400	71	70	74	43	46	56
10"	165	330	71	250	250	380	305	42	500	86	100	112	68	72	85
12"	178	356	81	270	285	415	346	48	600	104.5	150	165	100	110	130
14"	190	381	92	290	315	462	346	48	600	104.5	195	213	125	140	155
16"	216	406	102	310	360	523	387	55	600	130	256	290	155	201	215
18"	222	432	114	330	395	554	447	55	700	211	310	365	192	250	287
20"	229	457	127	350	440	592	500	59	500	263	390	456	290	340	362
22"	229	508	127	350	505	663	500	59	700	263	500	527	336	417	396
24"	267	508	154	390	505	663	500	59	700	263	550	595	375	490	440
26"	267	559	154	390	530	686	586	59	500	357	660	726	493	603	580
28"	292	610	229	430	575	782	658	83	700	169	790	863	560	798	710
30"	318	610	241	470	630	862	658	83	700	169	1000	1087	730	1000	790
32"	318	660	241	470	660	890	673	99	700	293	1300	1360	830	1150	875
34"	318	711	241	510	660	890	673	99	700	293	1420	1510	950	1304	1025
36"	330	711	241	510	745	964	696	115	700	285	1600	1693	1150	1550	1250
38"	330	762	300	550	745	964	696	115	700	285	1786	1918	1360	1788	1346
40"	410	762	300	550	795	1014	673	99	700	245	2050	2175	1620	2015	1503
42"	410	813	300	590	820	1039	673	99	700	245	2300	2390	1886	2295	1728
44"	470	813	300	590	875	1163	673	99	700	245	2480	2685	2013	2643	1900
46"	470	864	350	630	910	1185	796	115	700	288	2890	3095	2420	3045	2104
48"	470	864	350	630	945	1210	912	130	700	355	3300	3410	2756	3100	2304
50"	470	915	350	670	945	1210	912	130	700	355	3520	3660	3024	3487	2500
52"	530	915	370	670	990	1290	950	130	700	517	3800	4100	3315	3864	2825
54"	530	966	370	710	1025	1340	950	130	700	517	4400	4493	3675	4160	3146
56"	530	966	390	710	1040	1340	950	130	700	517	4585	4693	4023	4500	3475
58"	546	1017	390	750	1040	1303	950	130	700	517	4800	5150	4467	4880	3860
60"	600	1017	410	750	1145	1478	950	130	700	517	5500	6029	4996	5350	4260

Class 300

2"	109	216	43	150	100	241	157.5	26.5	100	42.5	27	27	24	24	23
2"1/2	112	241	46	170	130	241	157.5	26.5	100	42.5	27	28	24	26	27
3"	114	282	48	180	130	241	217	28.6	200	52	28	30	26	27	33
4"	127	305	54	190	142	254	217	28.6	200	52	37	42	26	27	41
5"	140	381	57	200	180	265	217	28.6	200	52	43	47	24	25	39
6"	140	403	59	210	190	297	297	40.5	400	71	65	83	34	43	71
8"	152	419	73	230	225	355	346	48	600	104.5	110	135	70	78	99
10"	165	457	86	250	260	411	387	55	600	130	170	195	110	130	130
12"	178	502	92	270	300	447	447	55	700	211	230	270	145	180	175
14"	190	762	117	290	335	509	500	59	700	263	330	430	220	295	260
16"	216	838	133	310	370	540	500	59	700	263	410	560	260	360	318
18"	222	914	149	330	410	573	586	59	500	357	500	710	345	480	402
20"	229	991	159	350	455	610	658	83	700	169	590	875	390	560	420
22"	229	1092	181	350	485	640	658	83	700	169	670	1067	551	690	450
24"	267	1143	183	390	522	730	696	115	700	285	970	1288	665	930	550
26"	267	1245	210	390	586	801	696	115	700	285	1250	1511	780	1105	675
28"	292	1346	254	430	650	872	673	99	700	245	1480	1763	905	1280	824
30"	318	1397	241	470	680	902	673	99	700	245	1575	2004	1045	1500	1250
32"	330	1447	300	470	730	995	796	115	700	288	1784	2298	1192	1722	1430
34"	330	1497	300	510	730	995	796	115	700	288	2100	2614	1366	1955	1765
36"	330	1547	300	510	775	1053	950	130	700	517	2532	2967	1530	2203	2012
38"	330	1597	350	550	785	1112	950	130	700	517	2811	3305	1710	2543	2302
40"	410	1647	350	550	795	1170	950	130	700	517	2925	3672	1902	2864	2550
42"	410	1697	350	590	795	1170	950	130	700	517	3088	4050	2013	3160	2854
44"	430	1747	350	590	833	1224	990	150	800	444	3425	4503	2240	3504	3178
46"	455	1797	400	630	898	1264	990	150	800	444	4266	5100	2460	3977	3498
48"	470	1847	400	630	965	1307	1102	175	1000	552	5686	5900	2725	4430	3826
50"	495	1897	400	670	1015	1350	1102	175	1000	552	6177	6500	3014	4960	4194
52"	508	1947	400	670	1065	1393	1102	175	1000	552	6724	7080	3294	5435	4685
54"	518	1997	430	710	1115	1436	1102	175	1000	552	7203	7700	3612	5912	5132
56"	530	2047	430	710	1160	1466	1102	175	1000	552	7350	8132	3974	6475	5642
58"	565	2097	450	750	1210	1502	1102	175	1000	552	7933	8661	4298	7125	6134
60"	600	2147	450	750	1263	1557	1242	190	1000	604	8516	9300	4623	7766	6644

Imperial Unit

Class 150 & Class 300

DN	Face to face (Inches)					Other dimensions (Inches)										Weights (Lbs) (valve + gear)					
	DFS		DFG		WAF & LUG	BWE											DFS	DFG	WAF	LUG	BWE
	Double flanged		ANSI B16.10		Wafer & Lug	Butt - Weld											Double flanged	ANSI B16.10	Wafer	Lug	Butt-Weld
	A1	A2	A3	A4			B	C	L	I	Y	F									

Class 150

2"	4.29	7.01	1.69	5.91	3.94	9.49	6.20	1.04	3.94	1.67	59.56	59.56	52.94	52.94	50.74
2 1/2"	4.41	7.52	1.81	6.69	5.12	9.49	6.20	1.04	3.94	1.67	59.56	61.77	52.94	57.36	59.56
3"	4.49	7.99	1.89	7.09	5.12	9.49	8.54	1.13	7.87	2.05	61.77	66.18	57.36	59.56	72.80
4"	5.00	9.02	2.13	7.48	5.59	10.00	8.54	1.13	7.87	2.05	81.62	92.65	57.36	59.56	90.45
5"	5.51	10.00	2.24	7.87	7.09	10.43	8.54	1.13	7.87	2.05	94.86	103.68	52.94	55.15	86.03
6"	5.51	10.51	2.24	8.27	7.09	10.91	9.72	1.13	9.84	2.05	99.27	108.09	59.56	61.77	92.65
8"	5.98	11.50	2.52	9.06	8.46	12.68	11.69	1.59	15.75	2.80	154.42	163.24	94.86	101.48	123.54
10"	6.50	12.99	2.80	9.84	9.84	14.96	12.01	1.65	19.69	3.39	220.60	247.07	150.01	158.83	187.51
12"	7.01	14.02	3.19	10.63	11.22	16.34	13.62	1.89	23.62	4.11	330.90	363.99	220.60	242.66	286.78
14"	7.48	15.00	3.62	11.42	12.40	18.19	13.62	1.89	23.62	4.11	430.17	469.88	275.75	308.84	341.93
16"	8.50	15.98	4.02	12.20	14.17	20.59	15.24	2.17	23.62	5.12	564.74	639.74	341.93	443.41	474.29
18"	8.74	17.01	4.49	12.99	15.55	21.81	17.60	2.17	27.56	8.31	683.86	805.19	423.55	551.50	633.12
20"	9.02	17.99	5.00	13.78	17.32	23.31	19.69	2.32	19.69	10.35	860.34	1005.94	639.74	750.04	798.57
22"	9.02	20.00	5.00	13.78	19.88	26.10	19.69	2.32	27.56	10.35	1103.00	1162.56	741.22	919.90	873.58
24"	10.51	20.00	6.06	15.35	19.88	26.10	19.69	2.32	27.56	10.35	1213.30	1312.57	827.25	1080.94	970.64
26"	10.51	22.01	6.06	15.35	20.87	27.01	23.07	2.32	19.69	14.06	1455.96	1601.56	1087.56	1330.22	1279.48
28"	11.50	24.02	9.02	16.93	22.64	30.79	25.91	3.27	27.56	6.65	1742.74	1903.78	1235.36	1760.39	1566.26
30"	12.52	24.02	9.49	18.50	24.80	33.94	25.91	3.27	27.56	6.65	2206.00	2397.92	1610.38	2206.00	1742.74
32"	12.52	25.98	9.49	18.50	25.98	35.04	26.50	3.90	27.56	11.54	2867.80	3000.16	1830.98	2536.90	1930.25
34"	12.52	27.99	9.49	20.08	25.98	35.04	26.50	3.90	27.56	11.54	3132.52	3331.06	2095.70	2876.62	2261.15
36"	12.99	27.99	9.49	20.08	29.33	37.95	27.40	4.53	27.56	11.22	3529.60	3734.76	2536.90	3419.30	2757.50
38"	12.99	30.00	11.81	21.65	29.33	37.95	27.40	4.53	27.56	11.22	3939.92	4231.11	3000.16	3944.33	2969.28
40"	16.14	30.00	11.81	21.65	31.30	39.92	26.50	3.90	27.56	9.65	4522.30	4798.05	3573.72	4445.09	3315.62
42"	16.14	32.01	11.81	23.23	32.28	40.91	26.50	3.90	27.56	9.65	5073.80	5272.34	4160.52	5062.77	3811.97
44"	18.50	32.01	11.81	23.23	34.45	45.79	26.50	3.90	27.56	9.65	5470.88	5923.11	4440.68	5830.46	4191.40
46"	18.50	34.02	13.78	24.80	35.83	46.65	31.34	4.53	27.56	11.34	6375.34	6827.57	5338.52	6717.27	4641.42
48"	18.50	34.02	13.78	24.80	37.20	47.64	35.91	5.12	27.56	13.98	7279.80	7522.46	6079.74	6838.60	5082.62
50"	18.50	36.02	13.78	26.38	37.20	47.64	35.91	5.12	27.56	13.98	7765.12	8073.96	6670.94	7692.32	5515.00
52"	20.87	36.02	14.57	26.38	38.98	50.79	37.40	5.12	27.56	20.35	8382.80	9044.60	7312.89	8523.98	6231.95
54"	20.87	38.03	14.57	27.95	40.35	52.76	37.40	5.12	27.56	20.35	9706.40	9910.46	8107.05	9176.96	6940.08
56"	20.87	38.03	15.35	27.95	40.94	52.76	37.40	5.12	27.56	20.35	10114.51	10351.66	8874.74	9927.00	7665.85
58"	21.50	40.04	15.35	29.53	40.94	51.30	37.40	5.12	27.56	20.35	10588.80	11360.90	9854.20	10765.28	8515.16
60"	23.62	40.04	16.14	29.53	45.08	58.19	37.40	5.12	27.56	20.35	12133.00	13299.97	11021.18	11802.10	9397.56

SI Unit

Class 600 & Class 900

DN	Face to face (Inches)					Other dimensions (Inches)										Weights (Lbs) (valve + gear)				
	DFS		DFG		WAF & LUG	BWE										DFS	DFG	WAF	LUG	BWE
	Double flanged	ANSI B16.10		Wafer & Lug		Butt - Weld										Double flanged	ANSI B16.10	Wafer	Lug	Butt-Weld
	A1	A2	A3	A4			B	C	L	I	Y	F								

Class 600

3"	180	356	54	180	135	240	247	28.6	200	52	75	115	31	30	65
4"	190	432	64	190	200	340	297	40.5	300	71	95	150	70	75	72
5"	200	508	70	200	215	395	305	42	400	86	115	165	84	87	80
6"	210	559	78	210	235	425	346	48	500	104.5	144	194	99	104	94
8"	230	660	102	230	266	420	387	55	600	130	204	244	134	154	134
10"	250	787	117	250	300	500	447	55	500	211	327	427	212	247	234
12"	270	838	140	270	345	530	500	59	500	263	412	572	322	352	322
14"	290	889	155	290	385	555	500	59	500	263	502	722	362	402	342
16"	310	991	178	310	420	590	658	74	700	169	725	885	485	635	525
18"	330	1092	200	330	480	635	658	83	700	169	798	1078	548	728	618
20"	350	1194	216	350	525	800	673	99	700	245	1233	1483	683	1163	833
22"	350	1295	220	370	580	870	673	99	700	245	1393	1593	763	1233	983
24"	390	1397	232	390	605	900	673	99	700	245	1673	1883	883	1383	1203
26"	430	1450	250	405	630	920	673	99	700	245	1728	2183	1033	1483	1333
28"	430	1550	300	430	690	934	950	130	700	517	2200	3100	1700	2000	1900
30"	430	1651	300	470	710	1004	950	130	700	517	2900	4100	2300	2650	2100
32"	470	1778	300	470	780	1046	950	130	700	517	3050	5350	2500	2800	2300
34"	470	1900	320	470	780	1046	950	130	700	517	3500	6700	2780	3200	2600
36"	510	2083	350	510	860	1130	990	150	800	444	4880	9180	3630	4280	3980
38"	510	2200	350	510	860	1130	990	150	800	444	5000	10180	3880	4480	4180
40"	550	2300	350	530	980	1230	1102	175	1000	552	5850	11900	4900	5300	5000
42"	570	2500	400	570	992	1245	1102	175	1000	552	6980	13980	5180	6080	5780
44"	600	2500	430	570	992	1245	1102	175	1000	552	7280	14980	5480	6380	6160
46"	630	2800	470	600	1150	1390	1242	190	1000	604	8950	17150	6950	8250	7850
48"	630	3000	470	600	1150	1390	1242	190	1000	604	9390	19150	7450	8950	8650

Class 900

6"	225	610	140	225	250	382	346	48	500	104.5	179	224	94	204	119
8"	292	737	230	230	300	485	447	55	500	211	337	427	197	352	212
10"	290	838	250	250	362	522	500	59	500	263	462	572	292	522	312
12"	290	965	270	290	403	556	500	59	500	263	580	782	352	662	392
14"	290	1029	270	290	415	597	658	74	700	169	655	935	405	735	425
16"	310	1130	270	310	455	685	673	99	700	245	933	1183	593	1013	683
18"	390	1219	300	390	530	780	673	99	700	245	1313	2283	713	1233	963
20"	430	1321	350	430	580	826	673	99	700	245	1683	3483	883	1483	1183
22"	470	1321	350	470	580	826	673	99	700	245	1683	3483	883	1483	1183
24"	470	1549	350	470	670	1000	912	130	700	355	2950	5550	1950	2610	2050
26"	510	1712	400	510	670	1000	912	130	700	355	3350	7550	2150	2750	2230
28"	550	1845	400	550	800	1002	950	130	700	517	3720	9100	2500	3300	2500
30"	550	1905	440	550	820	1072	950	130	700	517	4680	10600	2700	3800	2880
32"	590	2092	440	590	800	1002	990	150	800	444	5803	9680	3080	3880	3080
34"	590	2154	490	590	918	1152	990	150	800	444	6305	13180	3980	5080	4180
36"	630	2286	490	540	950	1222	990	150	800	444	6530	15180	4680	6430	4300
32"	470	1778	300	470	780	1046	950	130	700	517	3050	5350	2500	2800	2300
34"	470	1900	320	470	780	1046	950	130	700	517	3500	6700	2780	3200	2600
36"	510	2083	350	510	860	1130	990	150	800	444	4880	9180	3630	4280	3980

Imperial Unit

Class 600 & Class 900

DN	Face to face (Inches)					Other dimensions (Inches)										Weights (Lbs) (valve + gear)				
	DFS		DFG		WAF & LUG	BWE										DFS	DFG	WAF	LUG	BWE
	Double flanged	ANSI B16.10		Wafer & Lug		Butt - Weld										Double flanged	ANSI B16.10	Wafer	Lug	Butt-Weld
	A1	A2	A3	A4			B	C	L	I	Y	F								

Class 600

3"	7.09	14.02	2.13	7.09	5.31	945	9.72	1.13	7.87	2.05	16545	253.69	68.39	66.18	143.39
4"	748	17.01	2.52	748	7.87	13.39	11.69	1.59	11.81	2.80	209.57	330.90	154.42	165.45	158.83
5"	7.87	20.00	2.76	7.87	8.46	15.55	12.01	1.65	15.75	3.39	253.69	363.99	185.30	191.92	176.48
6"	8.27	22.01	3.07	8.27	9.25	16.73	13.62	1.89	19.69	4.11	317.66	427.96	218.39	229.42	207.36
8"	9.06	25.98	4.02	9.06	10.47	16.54	15.24	2.17	23.62	5.12	450.02	538.26	295.60	339.72	295.60
10"	9.84	30.98	4.61	9.84	11.81	19.69	17.60	2.17	19.69	8.31	721.36	941.96	467.67	544.88	516.20
12"	10.63	32.99	5.51	10.63	13.58	20.87	19.69	2.32	19.69	10.35	908.87	1261.83	710.33	776.51	710.33
14"	11.42	35.00	6.10	11.42	15.16	21.85	19.69	2.32	19.69	10.35	1107.41	1592.73	798.57	886.81	754.45
16"	12.20	39.02	7.01	12.20	16.54	23.23	25.91	2.91	27.56	6.65	1599.35	1952.31	1069.91	1400.81	1158.15
18"	12.99	42.99	7.87	12.99	18.90	25.00	25.91	3.27	27.56	6.65	1760.39	2378.07	1208.89	1605.97	1363.31
20"	13.78	47.01	8.50	13.78	20.67	31.50	26.50	3.90	27.56	9.65	2720.00	3271.50	1506.70	2565.58	1837.60
22"	13.78	50.98	8.66	14.57	22.83	34.25	26.50	3.90	27.56	9.65	3072.96	3514.16	1683.18	2720.00	2168.50
24"	15.35	55.00	9.13	15.35	23.82	35.43	26.50	3.90	27.56	9.65	3690.64	4153.90	1947.90	3050.90	2653.82
26"	16.93	57.09	9.84	15.94	24.80	36.22	26.50	3.90	27.56	9.65	3811.97	4815.70	2278.80	3271.50	2940.60
28"	16.93	61.02	11.81	16.93	27.17	36.77	37.40	5.12	27.56	20.35	4853.20	6838.60	3750.20	4412.00	4191.40
30"	16.93	65.00	11.81	18.50	27.95	39.53	37.40	5.12	27.56	20.35	6397.40	9044.60	5073.80	5845.90	4632.60
32"	18.50	70.00	11.81	18.50	30.71	41.18	37.40	5.12	27.56	20.35	6728.30	11802.10	5515.00	6176.80	5073.80
34"	18.50	74.80	12.60	18.50	30.71	41.18	37.40	5.12	27.56	20.35	7721.00	14780.20	6132.68	7059.20	5735.60
36"	20.08	82.01	13.78	20.08	33.86	44.49	38.98	5.91	31.50	17.48	10765.28	20251.08	8007.78	9441.68	8779.88
38"	20.08	86.61	13.78	20.08	33.86	44.49	38.98	5.91	31.50	17.48	11030.00	22457.08	8559.28	9882.88	9221.08
40"	21.65	90.55	13.78	20.87	38.58	48.43	43.39	6.89	39.37	21.73	12905.10	26251.40	10809.40	11691.80	11030.00
42"	22.44	98.43	15.75	22.44	39.06	49.02	43.39	6.89	39.37	21.73	15397.88	30839.88	11427.08	13412.48	12750.68
44"	23.62	98.43	16.93	22.44	39.06	49.02	43.39	6.89	39.37	21.73	16059.68	33045.88	12088.88	14074.28	13588.96
46"	24.80	110.24	18.50	23.62	45.28	54.72	48.90	7.48	39.37	23.78	19743.70	37832.90	15331.70	18199.50	17317.10
48"	24.80	118.11	18.50	23.62	45.28	54.72	48.90	7.48	39.37	23.78	20714.34	42244.90	16434.70	19743.70	19081.90

Class 900

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Safety integrity level SIL 3

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PED
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Marine Classification approval:
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DVT
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Cryogenic test BS 6364 and ISO 28921-1

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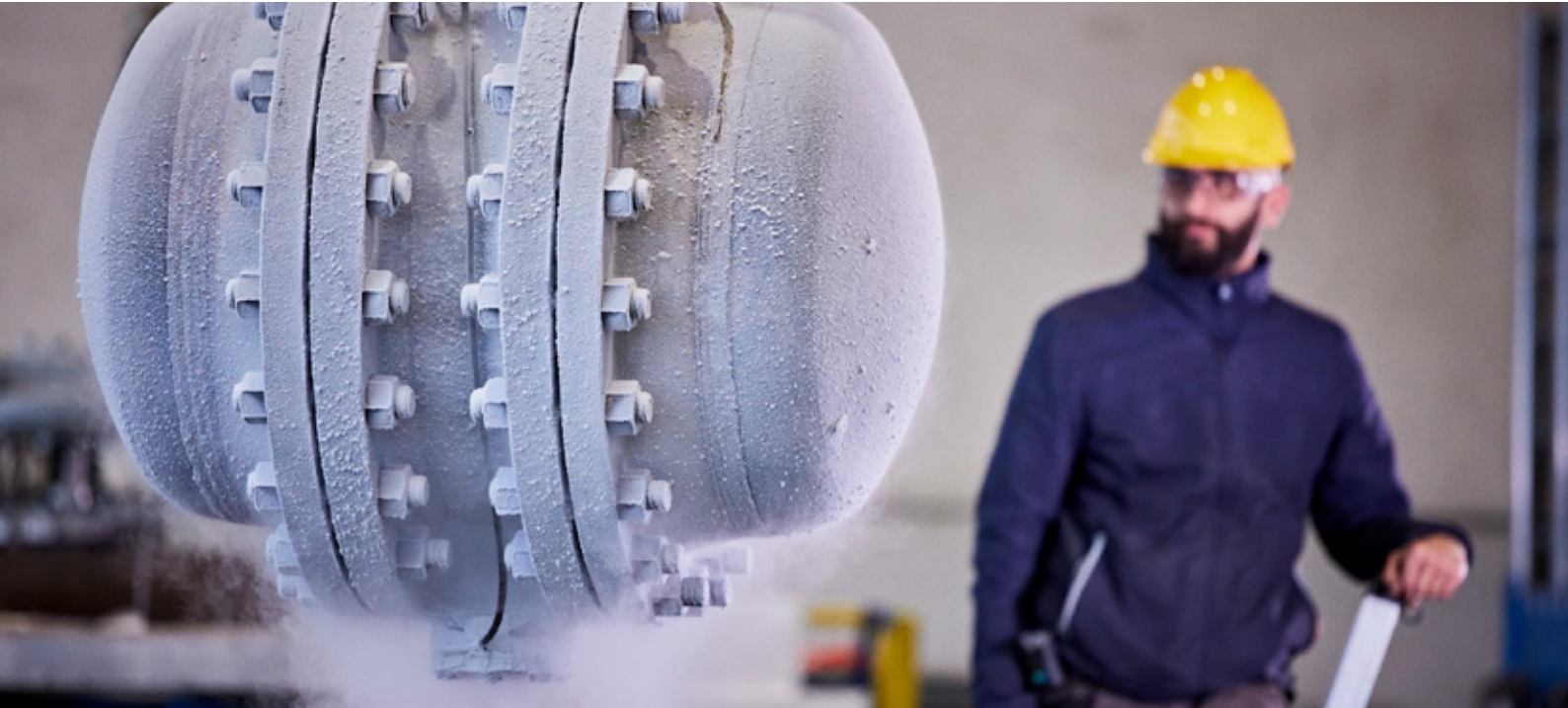
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