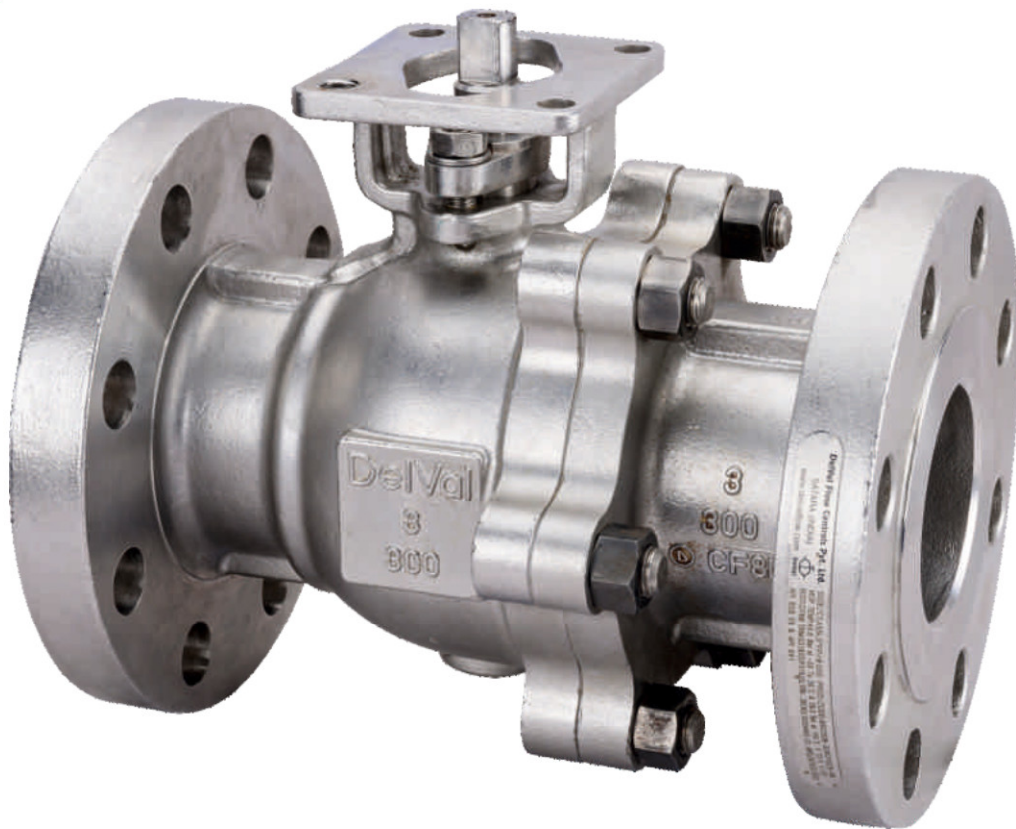


SERIES 65-8 To 70-8

Floating Ball Valves for Refinery Applications

Two-Piece, Full And Reduced Port



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 65-8 to 70-8 floating side entry ball valves are manufactured in ISO 9001 certified facilities with a robust quality management system and according to ASME B16.34 and API 608 standards.

Design Construction and Features

1. Stem Connection

Stem connection is available in standard DelVal sizes.

2. Top Flange Drilling

Integral Top Flange is designed as per ISO 5211 for direct mounting of actuators and gear operators. Top flange design provides easy access for adjustment of gland bolts when the valve is mounted with actuators.

3. Valve Body

Flanged, two-piece design in cast construction. Flanges are raised face and serrated and dimensions conform to ASME B 16.5. Carbon steel valve bodies are finished with two coats of hard, zinc-rich epoxy for excellent corrosion resistance.

4. Ball

Floating design, precision machined ball with superior finish and sphericity ensures extended seat life and low operating torques. The combination of the balanced seat design and ball ensures consistent and dependable leak tightness.

5. Stem

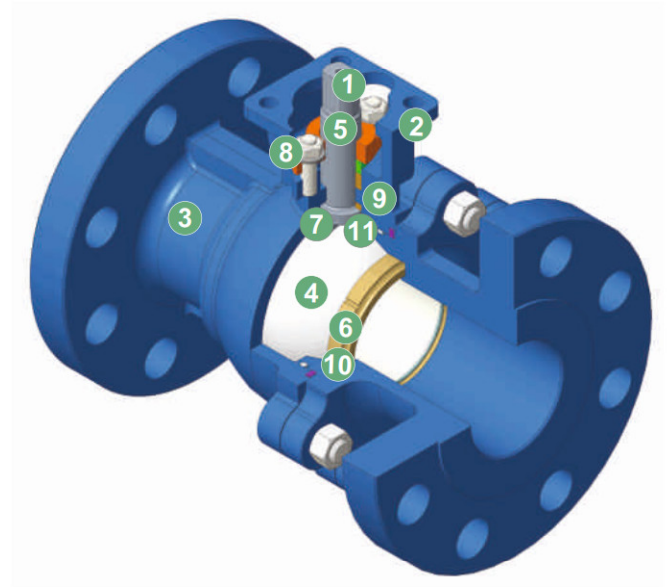
Stem in stainless steel, heavy-duty construction with double "D" or round and keyed configuration for positive engagement with all types of valve operator. The lower end of the stem is designed with an integral collar to be blowout-proof.

6. Seat

Seat is contoured to ensure that all stresses due to the line pressure are counterbalanced and that the extrusion of the seat into the body cavity due to sealing forces is eliminated.

7. Stem Seal

Heavy-duty engineered seal is provided to absorb side and thrust loads. It also reduces stem torque, protects stem packing from deformation and gives extended stem sealing life.



8. Live Loaded Gland Flange

Stem packing assembly is live loaded with Belleville Springs. This ensures continuous compression of packing and sealing against internal pressure. Rocker shaped gland bridge compensates for uneven adjustment of gland bolts. Adjustable stem packing with multiple graphite rings seal on high surface finish of the stem and ensures tight sealing, suitable for fugitive emission control.

9. Stem Sealing

Stem packing in graphite is live loaded with the gland assembly to ensure positive and trouble free sealing. Adjustment of packing gland is accessible without disassembly of valve or operator parts.

10. Body Joints

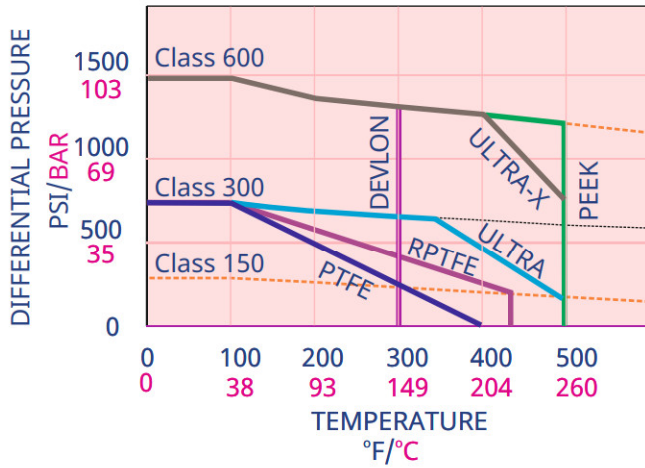
Double seal combination of O-ring and fire safe gasket ensures perfect body joint sealing and meet or exceed the fugitive emission requirements across the wide range of pressure and temperature applications.

11. Antistatic Device

All valves include dual grounding systems from stem to ball and stem to body. An antistatic feature is provided to ensure electrical continuity for assured stem sealing.

ENGINEERING SPECIFICATIONS

Pressure-Temperature Rating



Temperature Limits*

Material		Lower Limit		Upper Limit	
		°F	°C	°F	°C
Body	WCB	-20	-29	800	425
	LCB	-50	-46	650	345
	CF8/CF3M	-320	-196	1000	538
	CF8M/CF3M	-320	-196	1000	538
Seat	PTFE	-40	-40	392	200
	RPTFE	-58	-50	428	220
	ULTRA	-58	-50	500	260
	ULTRA-X	-58	-50	500	260
	DEVLON	-58	-50	302	150
	PEEK	-58	-50	500	260
Seal	HNBR AED	-50	-46	302	150
	VITON® AED	5	-15	392	200
	VITON® B	-4	-20	392	200

*Pressure-temperating rating shall be lesser of the shell rating or the seat rating or seal rating.

Note: These ratings are a guide for general service. Please consult DelVal for specific recommendations.

ULTRA Seat

An engineered fluorocarbon polymer that is rated for 260°C/500°F. Excellent for handling aggressive fluids at high pressures, Ultra is recommended for extended service in hostile environments involving chemical, thermal, and mechanical stress. Ultra has excellent thermal stability and is ideal for steam, hot gases and a variety of process chemicals where service can also be subject to pressure cycling.

Standards and Specifications

DelVal Series 65-8 to 70-8 Floating Side Entry Ball Valves are designed and manufactured to meet the requirements of the following industry standards:

Design: API 608, ASME B16.34

Face to Face: ASME B16.10

Testing: API 598, ISO 5208

Pressure Temperature: ASME B16.34

Flange Accommodation: ASME B16.5, BS EN 1092

Butt Weld Ends: ASME B16.25

NACE: ANSI/ASME MR 0175/ISO 15156-1

Fire Safe Certified: API 6FA/API 607

Fugitive Emission: API 641/ISO 15848-1&2

Compliance: PED 2014/68/EU

Body Style: Flanged end/Butt weld end

Rating: Class 150 to Class 300

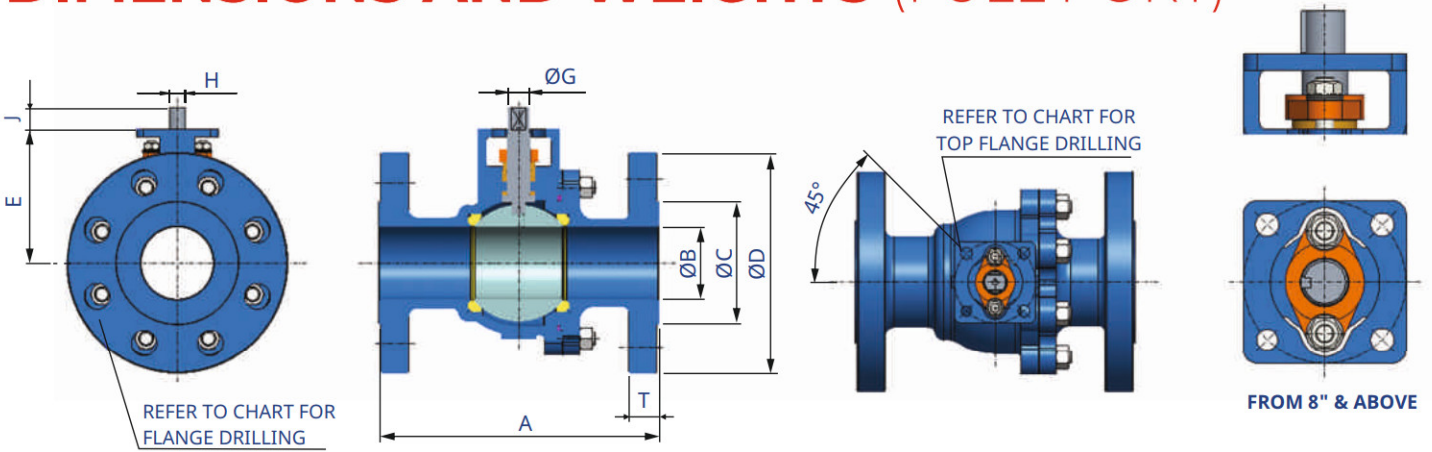
Temp Range*: -46°C to 200°C
-50°F to 392°F

Size Range:** 1/2" to 8"

*Pressure-temperature rating shall be the lesser of the shell rating or the seat rating or the seal rating.

**Consult DelVal for sizes not available in the bulletin.

DIMENSIONS AND WEIGHTS (FULL PORT)



Dimensions (mm)

ASME Class 150 (Series 65-8)

Valve Size	A				T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling				App. Weight (kg)
	Inch	DN	LP	SP						PCD	Hole Ø	Nos.					ISO 5211 Pattern	PCD1	Hole Ø	Nos.	
½"	15	108.0	9.5	15.0	35.0	50.50	89.0	60.5	16.0	4.0	10.0	6.0	-3.00	-	F05	50.0	7.0	4	1.5		
¾"	20	117.0	10.9	20.0	43.0	56.00	100.0	69.8	16.0	4.0	10.0	6.0	-2.75	-	F05	50.0	7.0	4	2.1		
1"	25	127.0	11.6	25.0	50.8	67.50	110.0	79.2	16.0	4.0	16.0	11.0	6.50	-	F05	50.0	7.0	4	3.1		
1½"	40	165.0	14.5	38.0	73.0	84.00	125.0	98.6	16.0	4.0	16.0	11.0	9.00	-	F05	50.0	7.0	4	5.9		
2"	50	178.0	15.7	51.0	92.0	95.00	150.0	120.6	19.0	4.0	16.0	11.0	7.50	-	F07	70.0	10.0	4	8.8		
2½"	65	190.0	17.5	62.0	105.0	115.00	180.0	139.7	19.0	4.0	18.0	13.0	18.00	-	F07	70.0	10.0	4	13.2		
3"	80	203.0	19.0	76.0	127.0	130.00	190.0	152.4	19.0	4.0	19.0	13.0	16.00	-	F10	102.0	12.0	4	16.2		
4"	100	229.0	24.0	102.0	157.2	162.00	230.0	190.5	19.0	8.0	22.0	16.0	16.00	-	F10	102.0	12.0	4	30.2		
6"	150	394.0	267.0	25.4	150.0	216.0	215.00	280.0	241.3	22.2	8.0	30.0	22.0	25.00	-	F12	125.0	14.0	4	63.2	
8"	200	457.0	-	29.5	202.0	270.0	305.00	345.0	298.5	22.2	8.0	40.0	-	45.00	12.0 x 8.0	F16	165.0	22.0	4	152.0	

ASME Class 300 (Series 66-8)

½"	15	140.0	14.7	15.0	34.9	50.50	95.0	66.7	16.0	4.0	10.0	6.0	-3.00	-	F05	50.0	7.0	4	2.1	
¾"	20	152.0	16.3	20.0	43.0	56.00	115.0	82.6	19.0	4.0	10.0	6.0	-2.75	-	F05	50.0	7.0	4	2.8	
1"	25	165.0	17.4	25.0	50.8	67.50	125.0	88.9	19.0	4.0	16.0	11.0	6.50	-	F05	50.0	7.0	4	4.8	
1½"	40	190.0	21.1	38.0	73.0	84.00	155.0	114.3	22.2	4.0	16.0	11.0	9.00	-	F05	50.0	7.0	4	8.8	
2"	50	216.0	22.7	51.0	92.0	95.00	165.0	127.0	19.0	8.0	16.0	11.0	7.50	-	F07	70.0	10.0	4	12.8	
2½"	65	241.0	25.9	62.0	105.0	115.00	190.0	149.2	22.2	8.0	18.0	13.0	18.00	-	F07	70.0	10.0	4	21.0	
3"	80	282.0	29.0	76.0	127.0	130.00	210.0	168.3	22.2	8.0	19.0	13.0	16.00	-	F10	102.0	12.0	4	30.0	
4"	100	305.0	32.2	102.0	157.2	162.00	255.0	200.0	22.2	8.0	22.0	16.0	16.00	-	F10	102.0	12.0	4	50.6	
6"	150	403.0	37.0	150.0	216.0	215.00	320.0	269.9	22.2	12.0	30.0	22.0	25.00	-	F12	125.0	14.0	4	110.0	
8"	200	419.0	-	42.0	202.0	270.0	305.00	380.0	330.2	25.4	12.0	40.0	-	45.00	12.0 x 8.0	F16	165.0	22.0	4	192.0

Dimensions (Inch)

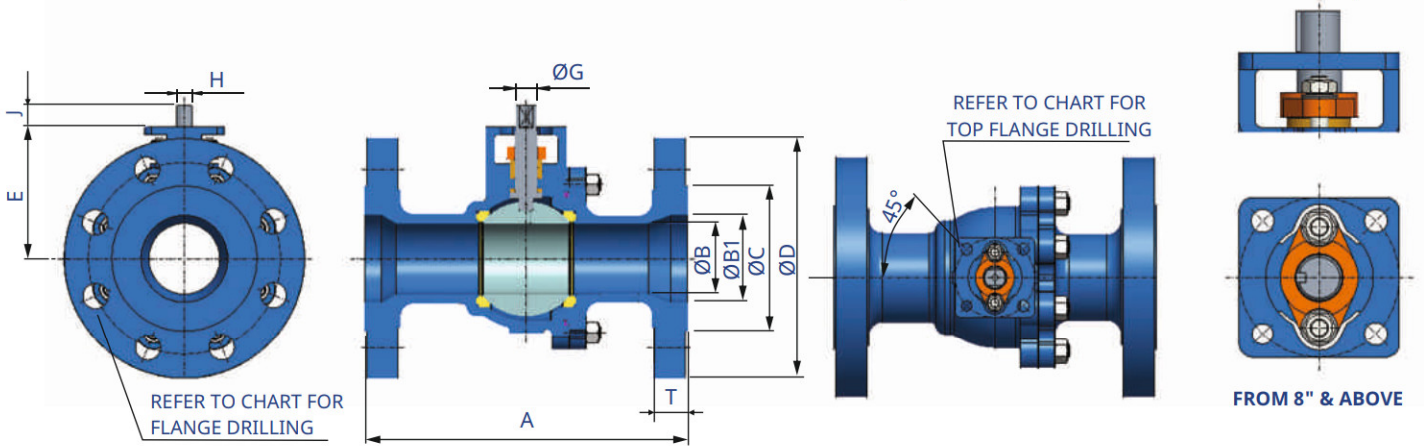
ASME Class 150 (Series 65-8)

Valve Size	A				T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling				App. Weight (lbs)
	Inch	DN	LP	SP						PCD	Hole Ø	Nos.					ISO 5211 Pattern	PCD1	Hole Ø	Nos.	
½"	15	4.25	0.37	0.59	1.37	1.99	3.50	2.38	0.63	4.00	0.39	0.23	-0.12	—	F05	1.97	0.28	4	3.30		
¾"	20	4.62	0.42	0.79	1.69	2.20	3.93	2.75	0.63	4.00	0.39	0.23	-0.11	—	F05	1.97	0.28	4	4.60		
1"	25	5.00	0.44	0.98	2.00	2.66	4.33	3.12	0.63	4.00	0.63	0.43	0.26	-	F05	1.97	0.28	4	6.83		
1½"	40	6.50	0.57	1.50	2.87	3.30	4.92	3.88	0.63	4.00	0.63	0.43	0.35	—	F05	1.97	0.28	4	13.00		
2"	50	7.00	0.62	2.00	3.62	3.74	5.90	4.75	0.75	4.00	0.63	0.43	0.30	—	F07	2.76	0.39	4	19.40		
2½"	65	7.50	0.69	2.44	4.12	4.53	7.08	5.50	0.75	4.00	0.71	0.51	0.71	—	F07	2.76	0.39	4	29.00		
3"	80	8.00	0.75	3.00	5.00	5.12	7.50	6.00	0.75	4.00	0.75	0.51	0.63	—	F10	4.02	0.47	4	35.70		
4"	100	9.00	0.94	4.02	6.19	6.38	9.02	7.50	0.75	8.00	0.87	0.63	0.63	—	F10	4.02	0.47	4	66.60		
6"	150	15.51	10.51	1.00	5.90	8.50	8.46	11.02	9.50	0.87	8.00	1.18	0.87	0.98	—	F12	4.92	0.55	4	139.40	
8"	200	18.00	-	1.16	7.95	10.63	12.01	13.50	11.75	0.87	8.00	1.57	-	1.77	0.47 x 0.31	F16	6.50	0.87	4	335.00	

ASME Class 300 (Series 66-8)

½"	15	5.50	0.58	0.59	1.38	1.99	3.75	2.62	0.63	4.00	0.39	0.24	-0.12	—	F05	1.97	0.28	4	4.60	
¾"	20	5.98	0.64	0.79	1.69	2.20	4.52	3.25	0.75	4.00	0.39	0.24	-0.11	—	F05	1.97	0.28	4	6.20	
1"	25	6.50	0.70	0.98	2.00	2.66	4.92	3.50	0.75	4.00	0.63	0.43	0.26	—	F05	1.97	0.28	4	10.60	
1½"	40	7.48	0.83	1.50	2.87	3.30	6.10	4.50	0.87	4.00	0.63	0.43	0.35	—	F05	1.97	0.28	4	19.40	
2"	50	8.50	0.89	2.01	3.62	3.74	6.50	5.00	0.75	8.00	0.63	0.43	0.30	—	F07	2.76	0.39	4	28.20	
2½"	65	9.50	1.02	2.44	4.13	4.53	7.50	5.88	0.87	8.00	0.71	0.51	0.71	—	F07	2.76	0.39	4	46.30	
3"	80	11.12	1.14	3.00	5.00	5.12	8.25	6.62	0.87	8.00	0.75	0.51	0.63	—	F10	4.02	0.47	4	66.00	
4"	100	12.00	1.26	4.02	6.19	6.38	10.00	7.88	0.87	8.00	0.87	0.63	0.63	—	F10	4.02	0.47	4	111.50	
6"	150	15.88	-	1.45	5.90	8.50	8.46	12.60	10.62	0.87	12.00	1.18	0.87	0.98	—	F12	4.92	0.55	4	242.50
8"	200	19.75	16.50	1.64	7.95	10.63	12.01	14.96	13.00	1.00	12.00	1.57	-	1.77	0.47 x 0.31	F16	6.50	0.87	4	423.30

DIMENSIONS AND WEIGHTS (REDUCED PORT)



Dimensions (mm)

ASME Class 150 (Series 69-8)

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Top Flange Drilling				App. Weight (kg)
Inch	DN	LP	SP							PCD	Hole Ø	Nos.				ISO 5211 Pattern	PCD	Hole Ø	Nos.	
¾"	20	117	10.9	20	15	43.0	50.5	100	69.9	16.0	4	10	6	-3.00	F05	50	7	3	2.1	
1"	25	127	12.0	25	20	51.0	56.0	108	79.4	16.0	4	10	6	-2.75	F05	50	7	3	3.1	
1½"	40	165	14.7	38	25	73.0	67.5	125	98.5	16.0	4	16	11	6.50	F05	50	7	3	5.9	
2"	50	178	16.3	51	38	92.0	84.0	150	120.7	19.0	4	16	11	9.00	F05	50	7	3	8.8	
2½"	65	190	18.0	62	51	105.0	95.0	180	139.7	19.0	4	16	11	7.50	F07	70	10	3	13.2	
3"	80	203	19.5	76	62	127.0	115.0	190	152.4	19.0	4	18	13	18.00	F07	70	10	3	16.2	
4"	100	229	24.3	102	76	157.2	130.0	230	190.5	19.0	8	19	13	16.00	F10	102	12	3	30.2	
6"	150	267	25.9	150	102	216.0	162.0	280	241.3	22.2	8	22	16	16.00	F10	102	12	3	63.2	
8"	200	-	457	30.0	202	270.0	215.0	345	298.5	22.2	8	30	22	25.00	F12	125	14	3	152.0	

ASME Class 300 (Series 70-8)

¾"	20	152	16.0	20	15	43.0	50.5	115	82.6	19.0	4	10	6	-3.00	F05	50	7	3	2.8
1"	25	165	17.9	25	20	50.8	56.0	125	88.9	19.0	4	10	6	-2.75	F05	50	7	3	4.8
1½"	40	190	21.1	38	25	73.0	67.5	155	114.3	22.2	4	16	11	6.50	F05	50	7	3	8.8
2"	50	216	22.7	51	38	92.0	84.0	165	127.0	19.0	8	16	11	9.00	F05	50	7	3	12.8
2½"	65	241	25.4	62	51	105.0	95.0	190	149.2	22.2	8	16	11	7.50	F07	70	10	3	21.0
3"	80	282	29.0	76	62	127.0	115.0	210	168.3	22.2	8	18	13	18.00	F07	70	10	3	30.0
4"	100	305	32.2	102	76	157.2	130.0	255	200.0	22.2	8	19	13	16.00	F10	102	12	3	50.6
6"	150	403	37.0	150	102	216.0	162.0	320	269.9	22.2	12	22	16	16.00	F10	102	12	3	110.0
8"	200	419	-	42.0	202	270.0	215.0	380	330.2	25.4	12	30	22	25.00	F12	125	14	3	192.0

Dimensions (Inch)

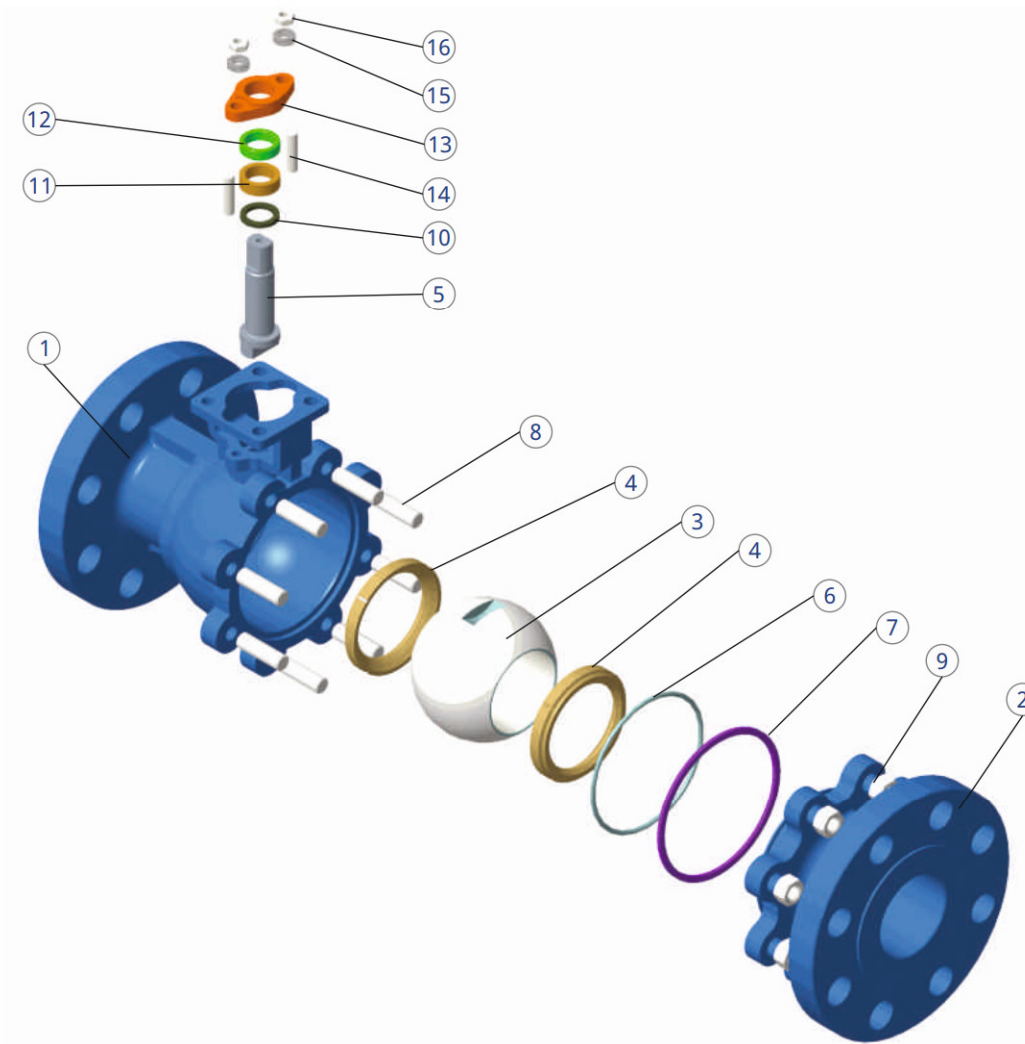
ASME Class 150 (Series 69-8)

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Top Flange Drilling				App. Weight (lbs)
Inch	DN	LP	SP							PCD	Hole Ø	Nos.				ISO 5211 Pattern	PCD	Hole Ø	Nos.	
¾"	20	4.61	0.43	0.78	0.59	1.69	1.99	3.93	2.75	0.63	4	0.39	0.24	-0.12	F05	1.97	0.28	4	4.60	
1"	25	5.00	0.46	0.98	0.79	2.00	2.20	4.25	3.12	0.63	4	0.39	0.24	-0.11	F05	1.97	0.28	4	6.80	
1½"	40	6.50	0.59	1.49	0.98	2.88	2.66	4.92	3.88	0.63	4	0.63	0.43	0.26	F05	1.97	0.28	4	13.00	
2"	50	7.01	0.64	2.00	1.49	3.62	3.30	5.90	4.75	0.75	4	0.63	0.43	0.35	F05	1.97	0.28	4	19.40	
2½"	65	7.48	0.71	2.44	2.00	4.12	3.74	7.08	5.50	0.75	4	0.63	0.43	0.30	F07	2.76	0.39	4	29.00	
3"	80	7.99	0.76	3.00	2.44	5.00	4.53	7.48	6.00	0.75	4	0.71	0.51	0.71	F07	2.76	0.39	4	35.70	
4"	100	9.02	0.95	4.02	3.00	6.19	5.12	9.05	7.50	0.75	8	0.75	0.51	0.63	F10	4.02	0.47	4	66.60	
6"	150	10.51	1.02	5.91	4.02	8.50	6.38	11.00	9.50	0.87	8	0.87	0.63	0.63	F10	4.02	0.47	4	139.00	
8"	200	-	18.00	1.18	7.95	5.91	10.62	8.46	13.58	11.75	8	1.18	0.87	0.98	F12	4.92	0.55	4	335.00	

ASME Class 300 (Series 70-8)

¾"	20	6.00	0.64	0.78	0.59	1.69	1.99	4.52	3.25	0.75	4	0.39	0.24	-0.12	F05	1.97	0.28	4	6.20	
1"	25	6.50	0.70	0.98	0.79	2.00	2.20	4.92	3.50	0.75	4	0.39	0.24	-0.11	F05	1.97	0.28	4	10.60	
1½"	40	7.50	0.83	1.49	0.98	2.88	2.66	6.12	4.50	0.87	4	0.63	0.43	0.26	F05	1.97	0.28	4	19.40	
2"	50	8.50	0.89	2.00	1.49	3.62	3.30	6.50	5.00	0.75	8	0.63	0.43	0.35	F05	1.97	0.28	4	28.20	
2½"	65	9.50	1.00	2.44	2.00	4.13	3.74	7.50	5.87	0.87	8	0.63	0.43	0.30	F07	2.76	0.39	4	46.30	
3"	80	11.10	1.14	3.00	2.44	5.00	4.53	8.25	6.63	0.87	8	0.71	0.51	0.71	F07	2.76	0.39	4	66.00	
4"	100	12.00	1.26	4.02	3.00	6.18	5.12	10.01	7.87	0.87	8	0.75	0.51	0.63	F10	4.02	0.47	4	111.50	
6"	150	15.88	1.45	5.91	4.02	8.50	6.38	12.60	10.63	0.87	12	0.87	0.63	0.63	F10	4.02	0.47	4	242.50	
8"	200	16.50	-	1.65	7.95	5.91	10.62	8.46	14.98	13.00	1.00	12	1.18	0.87	0.98	F12	4.92	0.55	4	423.30

STANDARD MATERIALS OF CONSTRUCTION



Part List

Item	Description	Standard Materials*	
		Carbon Steel	Stainless Steel
1	Body	ASTM A216 WCB, ASTM A352 LCB	ASTMA351 CF8M/CF8/CF3/CF3M ASTM A995 4A/5A/6A
2	End Connector	ASTM A216 WCB, ASTM A352 LCB	ASTMA351 CF8M/CF8/CF3/CF3M ASTM A995 4A/5A/6A
3	Ball	ASTM A351 CF8M/CF8 ASTM A182 F316/F304	ASTM A351 CF8M/CF8/CF3/CF3M ASTM A995 4A/5A/6A ASTM A182 F316/F304/ F304L/ F316L/F51/F53/ F55
4**	Seat	PTFE/RPTFE/ULTRA/PEEK	PTFE/RPTFE/ULTRA/PEEK
5	Stem	ASTM A479 SS316/SS316L/ SS304/XM-19/S31803 ASTM A564 17-4 PH Type 630 ASTM A182 F51/F53/F55	ASTM A479 SS316/SS316L/SS304/ XM-19/S31803 ASTM A564 17-4 PH Type 630 ASTM A182 F51/F53/F55
6**	Body Seal (from 6" onwards)	VITON® /HNBR	VITON® /HNBR

Item	Description	Standard Materials*	
		Carbon Steel	Stainless Steel
7**	Body Gasket	Graphite SS316+Graphite (from 6" onwards)	Graphite SS316+Graphite/S31803+ Graphite (from 6" onwards)
8	Stud	ASTM A193 B7/L7	ASTM A193 B8/B8M
9	Nut	ASTM A194 2H/Gr.7	ASTM A194 8/8M
10**	Stem Seal	RPTFE/ULTRA/PEEK	RPTFE/ULTRA/PEEK
11**	Stem Packing	Graphite	Graphite
12	Gland	ASTM A 479 SS304	ASTM A479 SS316/SS316L ASTM A182 F51/F53/F55
13	Gland Flange	ASTM A216 WCB ASTM A516 Gr.70	ASTM A351 CF8/CF8M ASTM A240 SS304/SS316
14	Stud	ASTM A193 B7/L7	ASTM A193 B8/B8M
15**	Belleville Washer	ASTM B637 GR. 718 ASTM A 479 SS304/ SS316	ASTM B637 GR. 718 ASTM A 479 SS304/SS316
16	Nut	ASTM A194 2H/Gr.7	ASTM A194 8/8M

*Other materials from 6" and above may be available upon request.

**Recommended spares.

TORQUE DATA (Nm/Lbf-Inch)

Size(FB)		TORQUE TYPE	ASME PRESSURE CLASS			
INCH	DN		150		300	
			Nm	Lbf-Inch	Nm	Lbf-Inch
1/2"	15	BTO	4	35	6	53
		ETC	3	27	5	44
3/4"	20	BTO	6	53	8	71
		ETC	5	44	6	53
1"	25	BTO	10	89	15	133
		ETC	8	71	12	106
1 1/2"	40	BTO	20	177	32	283
		ETC	16	142	26	230
2"	50	BTO	25	221	40	354
		ETC	20	177	32	283
2 1/2"	65	BTO	40	354	60	531
		ETC	32	283	48	425
3"	80	BTO	65	575	100	885
		ETC	52	460	80	708
4"	100	BTO	110	974	170	1505
		ETC	88	779	136	1204
6"	150	BTO	330	2921	460	4071
		ETC	264	2336	368	3257
8"	200	BTO	750	6638	900	7965
		ETC	600	5310	720	6372

BTO: Break To Open Torque ETC: End To Close Torque

Notes:

- 1) Torque values are at ambient temperature, media being clear water without any factor of safety.
- 2) For PEEK seated valve torque multiply above values by 2.
- 3) Above torque values are indicative and for reference only. Actuator sizing torque will depend on service media.
- 4) For reduced port valves, consider torque values corresponding to the lower size e.g., for 8"x 6" reduced port valve consider torque value corresponding to 6".

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Operator Information



Lever Operated

Valves up to size 6" FP and 8" RP Class 150, 4" FP and 6" RP Class 300 can be supplied with handles for manual operation. Pad locking arrangement is provided as an option to prevent unauthorized operation.



Gear Operated

Valves of all sizes can be mounted with gear operators for manual operation. Gear operators can also be attached with chain-wheel operators to open or close valves located on pipelines at high elevations.



Actuator Operated

All valves can be mounted with pneumatic or electric actuators for complete on-off automation. Valves can be also mounted with manual overrides.

100% TESTING 100% SERIALIZATION

CERTIFICATES



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