DelVal® SERIES 65/66/67/68 & 69/70/71/72

DelVal® Flow Controls

Industrial Process Floating Ball Valves, Full and Reduced Port

Sizes 1/2"-12" / DN 15 - DN 300

ASME Class150, 300, 600 & 900



Featuring an ISO 5211 Mounting Pad for **Direct Mounting** of Actuators and Gear Operators on sizes 1/2"-12"







Leading the Industry with Innovation by Design

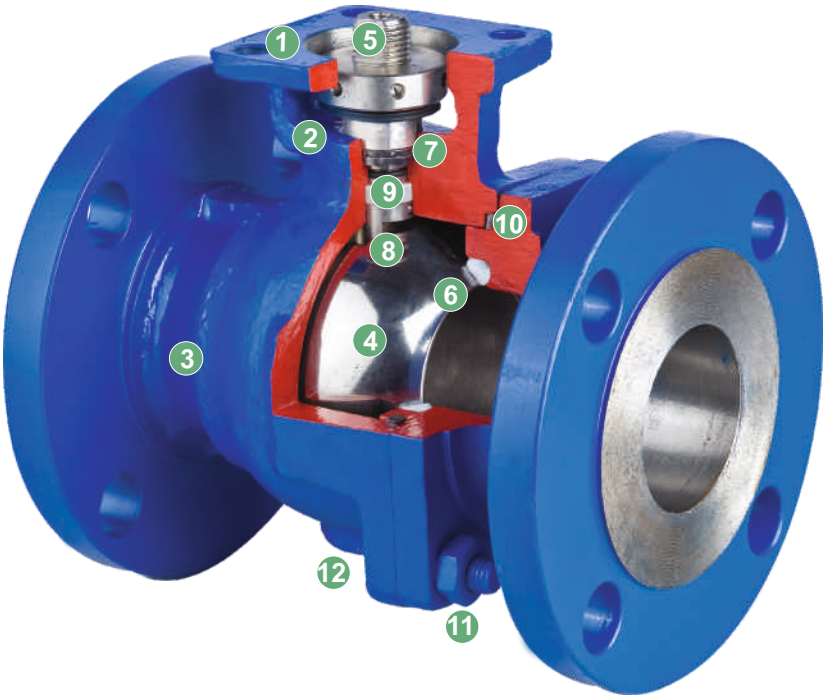
DelVal Flow Controls is pleased to offer top-of-the-line products in pipeline flow control. The DelVal® Series 65/66/67/68 & 69/70/71/72 Industrial Process Ball Valves have been developed with extensive application, design and manufacturing expertise. These products are produced by employing modern manufacturing practices under a robust quality assurance system. These practices ensure consistent product quality and dependable performance. The DelVal® Ball Valves have been designed to include state-of-the-art features that are described in this bulletin.

Features

1. Top Flange
Integral Top Flange is designed as per EN 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.

2. Adjustable Packing Gland
Packing gland bolts are easily accessible to adjust packing with the actuator in place.

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-coat, zinc rich epoxy paint in "DelVal® Blue."



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"and round and keyed configurations for positive engagement with all types of valve operators.

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 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. O-ring provides sealing against fugitive emissions.

8. Antistatic Device
Antistatic devices at the ball-stem interface and body-stem interface.

9. Stem Seal
Heavy-duty reinforced Teflon® bearing is provided to absorb side and thrust loads. It also reduces stem torque, protects stem packing from deformation and gives extended stem sealing life.

10. Body Seal
Body joint sealing is by a graphite / reinforced graphite gasket to withstand high temperatures and is contained in a precision-machined groove for extended sealing life.

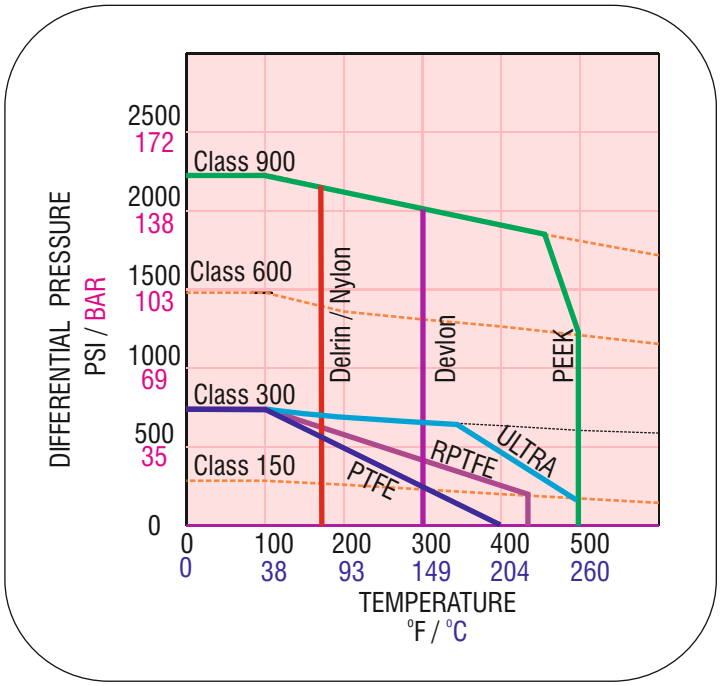
11. Body Stud and Nut
Body joint bolting is in ASTM A 193 B7 / ASTM A 194 2H material for carbon steel bodies and ASTM A 193 GR.B8/ASTM A 194 GR.8 material for stainless steel bodies.

12. Body Cavity Drain Plug
Body cavity drain plug facility is available on request.

Size Range :

port Type	ASME Class	Size												
		1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
		DN 15	DN 20	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
Full port	150	●	●	●	●	●	●	●	●	●	●	●	●	●
Reduced port		—	●	●	●	●	●	●	●	—	●	●	●	●
Full port	300	●	●	●	●	●	●	●	●	●	●	●	—	—
Reduced port		—	●	●	●	●	●	●	●	—	●	●	●	—
Full port	600	●	●	●	●	●	—	●	●	—	—	—	—	—
Reduced port		—	●	●	●	●	—	●	●	—	●	—	—	—
Full port	900	—	—	●	●	●	—	—	—	—	—	—	—	—
Reduced port		—	—	—	●	●	—	●	—	—	—	—	—	—

Pressure Temperature Rating:



Pressure - temperature seat ratings of valves are as given in the graph for body material ASTM A 216 - Gr. WCB. With the exception of body seat rings and primary soft seals, all valve components are capable of withstanding the pressure - temperature ratings as specified in ASME B 16.34, BS EN 12516 -1

Temperature Limits :

	Material	Lower limit		Upper limit	
		°F	°C	°F	°C
Body	WCB	-20	-29	797	425
	LCB	-50	-46	653	345
	CF8	-320	-196	1000	538
	CF8M	-320	-196	1000	538
Seat	PTFE	-40	-40	392	200
	RPTFE	-58	-50	428	220
	ULTRA	-58	-50	500	260
	DELRIN	14	-10	176	80
	NYLON	-58	-50	176	80
	PEEK	-58	-50	500	260
	DEVLON®	-58	-50	302	150

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 200°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.

Flow Coefficient "Cv " (USGPM)

Valve Size	Inch	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
	DN	15	20	25	40	50	65	80	100	125	150	200	250	300
Full port		19	40	79	208	434	793	980	2355	3721	5095	10055	18705	25155
Reduced port		-	15	32	118	156	338	540	651	780	920	2642	4702	8502

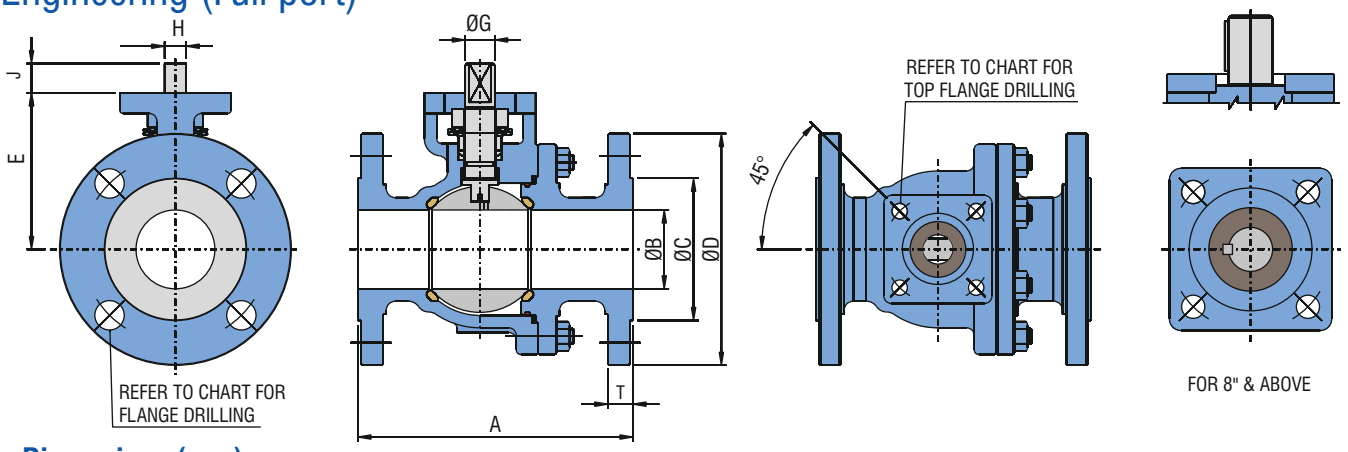
Rated Cv - The volume of water in USGPM that will pass through a given opening at a pressure drop of 1 psi.

Specification and Codes

Design: BS EN ISO 17292, ASME B16.34
Face to Face: ASME B16.10
Testing: ISO 5208
Flange Accommodation: ASME B16.5, BS EN 1092 (optional)
Pressure Temperature*: ASME B16.34
Butt Weld Ends: ASME B16.25
*Pressure-temperature rating shall be the lesser of the shell rating or the seat rating.

Fire Safe Certified: ISO 10497
Compliance with: 2014/68/EU
Body Style: Two Piece Bolted
Rating: ASME Class 150, 300, 600 and 900
Temp Range*: -46 to 200°C
-50 to 390°F

Engineering (Full port)



Dimensions (mm)

Series 65 ASME Class 150

Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP						BC	Hole Ø	Nos.				Size	BC1	Hole Ø	Nos.	Kg (App.)	Nm
1/2"	15	108		10	15	35	45	89	60.5	16	4	10	6	2.5	-	50	7	4	2	4
3/4"	20	117		10.9	20	43	52	100	69.9	16	4	10	6	6	-	50	7	4	2	6
1"	25	127		11.6	25	51	65	110	79.4	16	4	16	11	6.5	-	50	7	4	3	10
1-1/2"	40	165		15	38	73	84	125	98.5	16	4	16	11	9	-	50	7	4	5	20
2"	50	178		16.3	51	92	90	150	120.7	19	4	16	11	7.5	-	70	10	4	8	25
2-1/2"	65	190		17.9	62	105	107	180	139.7	19	4	18	13	18	-	70	10	4	14	40
3"	80	203		19.5	76	127	120.5	190	152.4	19	4	19	13	16	-	102	12	4	18	65
4"	100	229		24.3	102	157.2	153	230	190.5	19	8	22	16	16	-	102	12	4	31	110
5"	125	267		24.3	125	185.7	200	255	216	22.2	8	30	22	25	-	125	14	4	61	220
6"	150	394	267	26	150	216	215	280	241.3	22.2	8	30	22	25	-	125	14	4	71	330
8"	200	457	-	30	202	270	296.5	345	298.5	22.2	8	40	-	45	12x8	165	22	4	125	750
10"	250	533	-	31	252	324	352	405	362	25.4	12	42	-	67	12x8	165	22	4	220	1175
12"	300	610	-	32.5	305	381	465	485	431.8	25.4	12	60	-	84	18x11	254	18	8	340	1900

Series 66 ASME Class 300

Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP						BC	Hole Ø	Nos.				Size	BC1	Hole Ø	Nos.	Kg (App.)	Nm
1/2"	15	140		14.7	15	35	45	95	66.7	16	4	10	6	2.5	-	50	7	4	2	6
3/4"	20	152		16.3	20	43	52	115	82.6	19	4	10	6	6	-	50	7	4	3	8
1"	25	165		17.9	25	51	65	125	88.9	19	4	16	11	6.5	-	50	7	4	4	15
1-1/2"	40	190		21.1	38	73	85	155	114.3	22.2	4	16	11	9	-	50	7	4	8	32
2"	50	216		22.7	51	92	90	165	127	19	8	16	11	7.5	-	70	10	4	13	40
2-1/2"	65	241		25.9	62	105	107	190	149.2	22.2	8	18	13	18	-	70	10	4	21	60
3"	80	282		29	76	127	120.5	210	168.3	22.2	8	19	13	16.5	-	102	12	4	27	100
4"	100	305		32.2	102	157.2	153	255	200	22.2	8	22	16	16	-	102	12	4	41	170
5"	125	403		35.4	125	185.7	200	280	235	22.2	8	30	22	25	-	125	14	4	81	330
6"	150	403		37	150	216	215	320	269.9	22.2	12	30	22	25	-	125	14	4	99	500
8"	200	502	419	41.7	202	270	296.5	380	330.2	25.4	12	40	-	45	12x8	165	22	4	160	900

Series 67 ASME Class 600

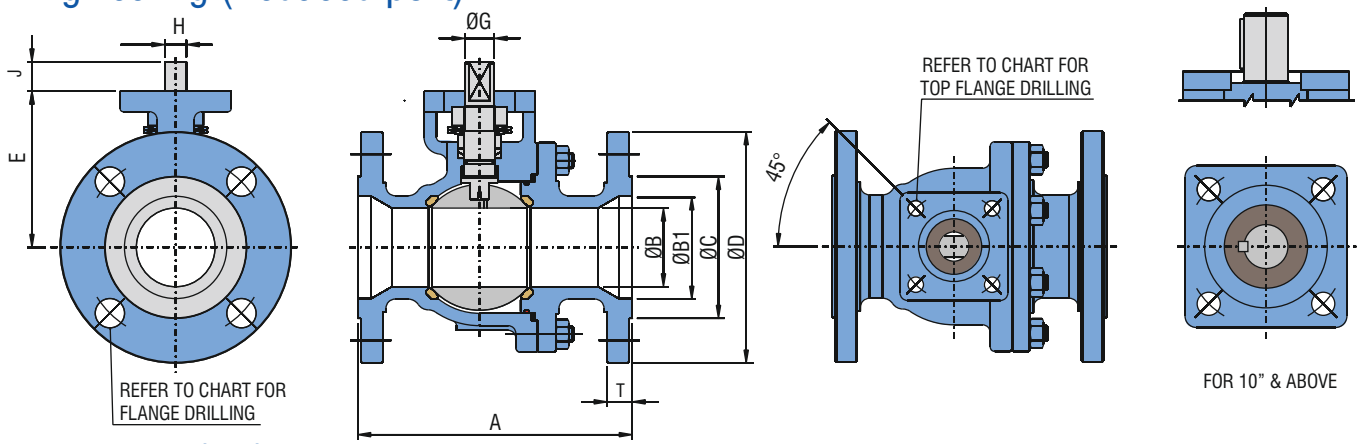
Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP						BC	Hole Ø	Nos.				Size	BC1	Hole Ø	Nos.	Kg (App.)	Nm
1/2"	15	165		20.8	15	35	65	95	66.7	16	4	16	11	3	-	70	10	4	8	24
3/4"	20	190		22.9	20	43	58.5	115	82.6	19	4	16	11	3	-	70	10	4	9	28
1"	25	216		24.5	25	51	65	125	88.9	19	4	16	11	3	-	70	10	4	10	65
1-1/2"	40	241		29.3	38	73	85	155	114.3	22	4	22	16	12.5	-	70	10	4	12	100
2"	50	292		31.8	51	92	110	165	127	19	8	22	16	16	-	102	12	4	16	135
2-1/2"	65	330		35	62	105	132	190	149.2	22.2	8	30	22	22	-	102	12	4	30	250
3"	80	356		38.2	76	127	150	210	168.3	22	8	30	22	22	-	102	12	4	41	305
4"	100	432		44.5	102	157.2	175	275	215.9	25.4	8	35	24	35	-	125	14	4	68	500

Series 68 ASME Class 900

Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP						BC	Hole Ø	Nos.				Size	BC1	Hole Ø	Nos.	Kg (App.)	Nm
1"	25	254		35	25	51	65	150	101.6	25.4	4	16	11	3	-	70	10	4	19	85
1-1/2"	40	305		38.2	38	73	95	180	123.8	28.5	4	30	22	15.5	-	102	12	4	30	130
2"	50	368		44.5	51	92	110	215	165.1	25.4	8	30	22	20	-	125	14	4	38	185

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Engineering (Reduced port)



Dimensions (mm)

Series 69 ASME Class 150

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Kg (App.)	Torque Nm
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
3/4"	20	117		10.9	20	15	43	45	100	69.9	16	4	10	6	2.5	-	50	7	4	2	4
1"	25	127		12	25	20	51	52	110	79.4	16	4	10	6	6	-	50	7	4	2	6
1-1/2"	40	165		14.7	38	25	73	65	125	98.5	16	4	16	11	6.5	-	50	7	4	5	10
2"	50	178		16.3	51	38	92	84	150	120.7	19	4	16	11	9	-	50	7	4	7	20
2-1/2"	65	190		18	62	51	105	90	180	139.7	19	4	16	11	7.5	-	70	10	4	11	25
3"	80	203		19.5	76	62	127	107	190	152.4	19	4	18	13	18	-	70	10	4	15	40
4"	100	229		24.3	102	76	157.2	120.5	230	190.5	19	8	19	13	16	-	102	12	4	27	65
6"	150	-	267	26	150	102	216	153	280	241.3	22.2	8	22	16	16	-	102	12	4	65	110
8"	200	457	-	30	202	150	270	215	345	298.5	22.2	8	30	22	25	-	125	14	4	105	330
10"	250	533	-	30.6	252	202	324	296.5	405	362	25.4	12	40	-	45	12x8	165	22	4	203	750
12"	300	610	-	32.5	305	252	381	352	485	431.8	25.4	12	42	-	62	12x8	165	22	4	310	1175

Series 70 ASME Class 300

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Kg (App.)	Torque Nm
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
3/4"	20	152		16.3	20	15	43	45	115	82.6	19	4	10	6	2.5	-	50	7	4	2	6
1"	25	165		17.9	25	20	51	52	125	88.9	19	4	10	6	6	-	50	7	4	3	8
1-1/2"	40	190		21.1	38	25	73	65	155	114.3	22.2	4	16	11	6.5	-	50	7	4	6	15
2"	50	216		22.7	51	38	92	84	165	127	19	8	16	11	9	-	50	7	4	10	32
2-1/2"	65	241		25.9	62	51	105	90	190	149.2	22.2	8	16	11	7.5	-	70	10	4	17	40
3"	80	282		29	76	62	127	107	210	168.3	22.2	8	18	13	18	-	70	10	4	22	60
4"	100	305		32.2	102	76	157.2	120.5	255	200	22.2	8	19	13	16	-	102	12	4	36	100
6"	150	403		37	150	102	216	153	320	269.9	22.2	12	22	16	16	-	102	12	4	81	170
8"	200	-	419	42	202	150	270	215	380	330.2	25.4	12	30	22	25	-	125	14	4	148	500
10"	250	568	-	48.1	252	202	324	296.5	445	387.4	28.5	16	40	-	45	12x8	165	22	4	270	900

Series 71 ASME Class 600

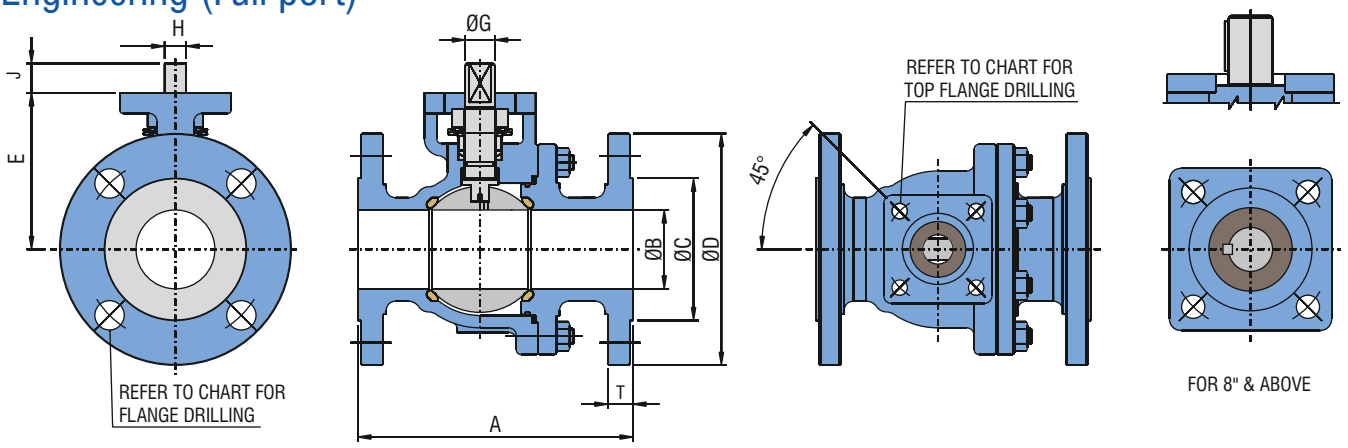
Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Kg (App.)	Torque Nm
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
3/4"	20	190		22.9	20	15	43	65	115	82.6	19	4	16	11	3	-	70	10	4	8	24
1"	25	216		24.5	25	20	51	58.5	125	88.9	19	4	16	11	3	-	70	10	4	9	28
1-1/2"	40	241		29.3	38	25	73	65	155	114.3	22.2	4	16	11	3	-	70	10	4	12	65
2"	50	292		32.4	50	51	92	88	165	127	19	8	22	16	12.5	-	102	12	4	15	100
3"	80	356		38.8	76	62	127	115	210	168.3	22.2	8	22	16	16	-	102	12	4	40	135
4"	100	432		45.1	102	76	157.2	150	275	215.9	25.4	8	30	22	22	-	102	12	4	66	305
6"	150	559		54.7	150	102	216	175	355	292	28.5	12	35	24	35	-	125	14	4	108	500

Series 72 ASME Class 900

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Kg (App.)	Torque Nm
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
1-1/2"	40	305		38.8	38	25	73	58.5	180	124	28.5	4	16	11	3	-	70	10	4	30	85
2"	50	368		45.1	51	38	92	65	215	165.1	25.4	8	30	22	15.5	-	102	12	4	36	130
3"	80	381		45.1	76	62	127	84	240	190.5	25.4	8	30	22	20	-	125	14	4	45	185

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Engineering (Full port)



Dimensions (Inch)

Series 65 ASME Class 150

Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Lbs (App.)	Torque Lb-in
Inch	DN	LP	SP						BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
1/2"	15	4.25		0.39	0.59	1.38	1.77	3.5	2.38	5/8	4	0.39	0.23	0.1	-	1.96	0.27	4	4	35
3/4"	20	4.62		0.43	0.78	1.69	2.04	3.88	2.75	5/8	4	0.39	0.23	0.23	-	1.96	0.27	4	4	53
1"	25	5		0.45	0.98	2	2.05	4.25	3.12	5/8	4	0.63	0.43	0.25	-	1.96	0.27	4	7	88
1-1/2"	40	6.5		0.59	1.49	2.88	3.3	5	3.88	5/8	4	0.63	0.43	0.35	-	1.96	0.27	4	11	177
2"	50	7		0.64	2	3.62	3.31	6	4.75	3/4	4	0.63	0.43	0.29	-	2.76	0.39	4	18	221
2-1/2"	65	7.48		0.7	2.44	4.12	4.21	7	5.5	3/4	4	0.71	0.51	0.70	-	2.76	0.39	4	31	354
3"	80	8		0.76	3	5	4.74	7.5	6	3/4	4	0.75	0.51	0.63	-	4.01	0.47	4	40	575
4"	100	9.02		0.95	4	6.19	6.02	9	7.5	3/4	8	0.87	0.63	0.63	-	4.01	0.47	4	68	973
5"	125	10.5		0.95	4.92	7.31	7.87	10	8.5	7/8	8	1.18	0.87	0.98	-	4.92	0.55	4	134	1947
6"	150	15.5	10.5	1.02	5.91	8.5	8.46	11	9.5	7/8	8	1.18	0.87	0.98	-	4.92	0.55	4	156	2920
8"	200	18	-	1.18	7.95	10.62	11.67	13.5	11.75	7/8	8	1.57	-	1.77	0.4x0.3	6.5	0.87	4	275	6637
10"	250	21	-	1.22	9.92	12.75	13.86	16	14.25	1	12	1.65	-	2.63	0.4x0.3	6.5	0.87	4	484	10398
12"	300	24	-	1.28	12	15	18.3	19	17	1	12	2.36	-	3.31	0.7x0.4	10	0.71	8	748	16815

Series 66 ASME Class 300

Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Lbs (App.)	Torque Lb-in
Inch	DN	LP	SP						BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
1/2"	15	5.5		0.57	0.59	1.38	1.77	3.75	2.62	5/8	4	0.39	0.23	0.1	-	1.96	0.27	4	4	53
3/4"	20	6		0.64	0.78	1.69	2.04	4.62	3.25	3/4	4	0.39	0.23	0.23	-	1.96	0.27	4	7	71
1"	25	6.5		0.70	0.98	2	2.56	4.88	3.5	3/4	4	0.63	0.43	0.25	-	1.96	0.27	4	9	133
1-1/2"	40	7.5		0.83	1.50	2.88	3.31	6.12	4.5	7/8	4	0.63	0.43	0.35	-	1.96	0.27	4	18	283
2"	50	8.50		0.89	2	3.62	3.54	6.5	5	3/4	8	0.63	0.43	0.3	-	2.76	0.39	4	29	354
2-1/2"	65	9.5		1.02	2.44	4.12	4.21	7.5	5.88	7/8	8	0.71	0.51	0.71	-	2.76	0.39	4	46	531
3"	80	11.12		1.14	3	5	4.74	8.25	6.62	7/8	8	0.75	0.51	0.63	-	4	0.47	4	59	885
4"	100	12		1.26	4.02	6.19	6.02	10	7.88	7/8	8	0.87	0.63	0.63	-	4	0.47	4	90	1504
5"	125	15.88		1.39	4.92	7.31	7.87	11	9.25	7/8	8	1.18	0.87	0.98	-	4.92	0.55	4	178	2920
6"	150	15.88	-	1.45	5.9	8.5	8.46	12.5	10.62	7/8	12	1.18	0.87	0.98	-	4.92	0.55	4	218	4425
8"	200	19.75	16.5	1.64	7.95	10.62	11.67	15	13	1	12	1.57	-	1.77	0.4 x 0.3	6.5	0.87	4	352	7965

Series 67 ASME Class 600

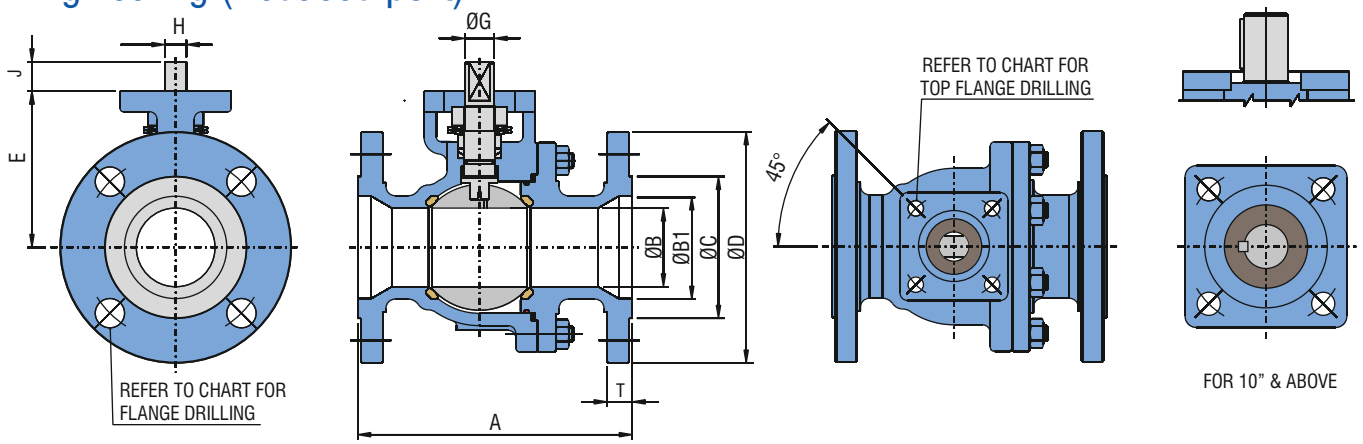
Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Lbs (App.)	Torque Lb-in
Inch	DN	LP	SP						BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
1/2"	15	6.5		0.81	0.59	1.38	2.55	3.75	2.62	5/8	4	0.63	0.43	0.11	-	2.75	0.39	4	18	212
3/4"	20	7.5		0.9	0.78	1.69	2.3	4.62	3.25	3/4	4	0.63	0.43	0.11	-	2.75	0.39	4	20	248
1"	25	8.5		0.96	0.98	2	2.56	4.88	3.5	3/4	4	0.63	0.43	0.11	-	2.75	0.39	4	22	575
1-1/2"	40	9.5		1.15	1.50	2.88	3.31	6.12	4.5	7/8	4	0.87	0.63	0.49	-	2.75	0.39	4	26	885
2"	50	11.50		1.25	2.01	3.62	4.33	6.5	5	3/4	8	0.87	0.63	0.63	-	4.01	0.47	4	35	1194
2-1/2"	65	13		1.37	2.44	4.13	5.19	7.5	5.88	7/8	8	1.18	0.87	0.87	-	4.02	0.47	4	66	2212
3"	80	14.02		1.50	3	5	5.91	8.25	6.62	7/8	8	1.18	0.87	0.86	-	4.01	0.47	4	90	2699
4"	100	17.01		1.75	4	6.19	6.89	10.75	8.5	1	8	1.38	0.94	1.38	-	4.92	0.55	4	150	4425

Series 68 ASME Class 900

Valve Size		A		T	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight Lbs (App.)	Torque Lb-in
Inch	DN	LP	SP						BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.		
1"	25	10		1.37	0.98	2.01	2.56	5.9	4	1	4	0.63	0.43	0.11	-	2.75	0.39	4	42	752
1-1/2"	40	12		1.50	1.49	2.88	3.74	7.09	4.87	1-1/8	4	1.18	0.87	0.61	-	4.01	0.47	4	66	1151
2"	50	14.5		1.75	2.01	3.62	4.33	8.5	6.5	1	8	1.18	0.87	0.78	-	4.92	0.55	4	84	1637

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Engineering (Reduced port)



Dimensions (Inch)

Series 69 ASME Class 150

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.	Lbs(App.)	Lb-in
3/4"	20	4.6		0.43	0.78	0.59	1.69	1.77	3.88	2.75	5/8	4	0.39	0.23	0.1	-	1.96	0.27	4	4	35
1"	25	5		0.47	0.98	0.78	2	2.05	4.25	3.12	5/8	4	0.39	0.23	0.23	-	1.96	0.27	4	4	53
1-1/2"	40	6.5		0.59	1.49	0.98	2.88	2.56	4.92	3.88	5/8	4	0.63	0.43	0.26	-	1.96	0.27	4	11	88
2"	50	7.01		0.64	2	1.49	3.62	3.31	5	4.75	3/4	4	0.63	0.43	0.35	-	1.96	0.27	4	15	177
2-1/2"	65	7.5		0.7	2.44	2	4.12	3.54	6	5.5	3/4	4	0.63	0.43	0.3	-	2.75	0.39	4	24	221
3"	80	8		0.76	3	2.44	5	4.21	7.5	6	3/4	4	0.71	0.51	0.71	-	2.75	0.39	4	33	354
4"	100	9		0.95	4	3	6.19	4.74	9	7.5	3/4	8	0.75	0.51	0.63	-	4.01	0.47	4	59	575
6"	150	-	10.5	1.02	5.91	4.02	8.5	6.02	11	9.5	7/8	8	0.87	0.63	0.63	-	4.01	0.47	4	143	973
8"	200	18	-	1.18	7.95	5.91	10.62	8.46	13.5	11.75	7/8	8	1.18	0.87	0.98	-	4.92	0.55	4	231	2920
10"	250	21	-	1.20	9.92	7.95	12.75	11.67	16	14.25	1	12	1.57	-	1.77	0.4x0.3	6.5	0.87	4	447	6637
12"	300	24	-	1.28	12.01	9.92	15	13.86	19	17	1	12	1.65	-	2.44	0.4x0.3	6.5	0.87	4	682	10398

Series 70 ASME Class 300

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.	Lbs(App.)	Lb-in
3/4"	20	6		0.64	0.78	0.59	1.69	1.77	4.62	3.25	3/4	4	0.39	0.23	0.1	-	1.96	0.27	4	4	53
1"	25	6.5		0.70	0.98	0.78	2	2.05	4.88	3.5	3/4	4	0.39	0.23	0.23	-	1.96	0.27	4	7	71
1-1/2"	40	7.5		0.83	1.49	0.98	2.88	2.56	6.12	4.5	7/8	4	0.63	0.43	0.26	-	1.96	0.27	4	13	133
2"	50	8.50		0.89	2	1.49	3.62	3.31	6.5	5	3/4	8	0.63	0.43	0.35	-	1.96	0.27	4	22	283
2-1/2"	65	9.5		1.02	2.44	2	4.12	3.54	7.5	5.87	7/8	8	0.63	0.43	0.3	-	2.75	0.39	4	37	354
3"	80	11.12		1.14	3	2.44	5	4.21	8.25	6.63	7/8	8	0.71	0.51	0.71	-	2.75	0.39	4	48	531
4"	100	12		1.26	4	3.0	6.19	4.74	10	7.87	7/8	8	0.75	0.51	0.63	-	4.01	0.47	4	79	885
6"	150	15.88		1.45	5.91	4	8.5	6	12.5	10.63	7/8	12	0.87	0.63	0.63	-	4.01	0.47	4	178	1504
8"	200	-	16.5	1.65	7.95	5.91	10.62	8.4	15	13	1	12	1.18	0.87	0.98	-	4.92	0.55	4	326	4425
10"	250	22.38	-	1.89	9.92	7.95	12.75	11.67	17.5	15.25	1-1/8	16	1.57	-	1.77	0.4x0.3	6.5	0.87	4	594	7965

Series 71 ASME Class 600

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.	Lbs(App.)	Lb-in
3/4"	20	7.48		0.9	0.78	0.59	1.69	2.55	4.62	3.25	3/4	4	0.63	0.43	0.11	-	2.75	0.39	4	18	212
1"	25	8.5		0.96	0.98	0.78	2	2.3	4.88	3.5	3/4	4	0.63	0.43	0.11	-	2.75	0.39	4	20	248
1-1/2"	40	9.49		1.15	1.49	0.98	2.88	2.56	6.12	4.5	7/8	4	0.63	0.43	0.11	-	2.75	0.39	4	26	575
2"	50	11.5		1.25	1.97	1.49	3.62	3.46	6.5	5	3/4	8	0.87	0.63	0.49	-	4.01	0.47	4	33	885
3"	80	14.02		1.52	3	2.44	5	4.52	8.25	6.63	7/8	8	0.87	0.63	0.63	-	4.01	0.47	4	88	1194
4"	100	17		1.75	4	3	6.19	5.91	10.75	8.5	1	8	1.18	0.87	0.87	-	4.01	0.47	4	145	2699
6"	150	22		2.15	5.90	4	8.5	6.89	14	11.5	1-1/8	12	1.38	0.94	1.38	-	4.92	0.55	4	238	4425

Series 72 ASME Class 900

Valve Size		A		T	ØB1	ØB	ØC	E	ØD	Flange Drilling			ØG	H	J	Key Size	Top Flange Drilling			Weight	Torque
Inch	DN	LP	SP							BC	Hole Ø	Nos.					BC1	Hole Ø	Nos.	Lbs(App.)	Lb-in
1-1/2"	40	12.0		1.50	1.49	0.98	2.88	2.30	7.09	4.88	1-1/8	4	0.63	0.43	0.11	-	2.75	0.39	4	66	752
2"	50	14.5		1.75	2	1.49	3.62	2.56	8.5	6.5	1	8	1.18	0.87	0.61	-	4.01	0.47	4	79	1151
3"	80	15.0		2.15	3	2.44	5	3.31	9.5	7.5	1	8	1.18	0.87	0.78	-	4.92	0.55	4	99	1637

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Materials of Construction

Body, End Connector
- ASTM A216 WCB
- ASTM A351 CF8
- ASTM A351 CF8M
- ASTM A351 CF3
- ASTM A351 CF3M
- ASTM A352 LCB

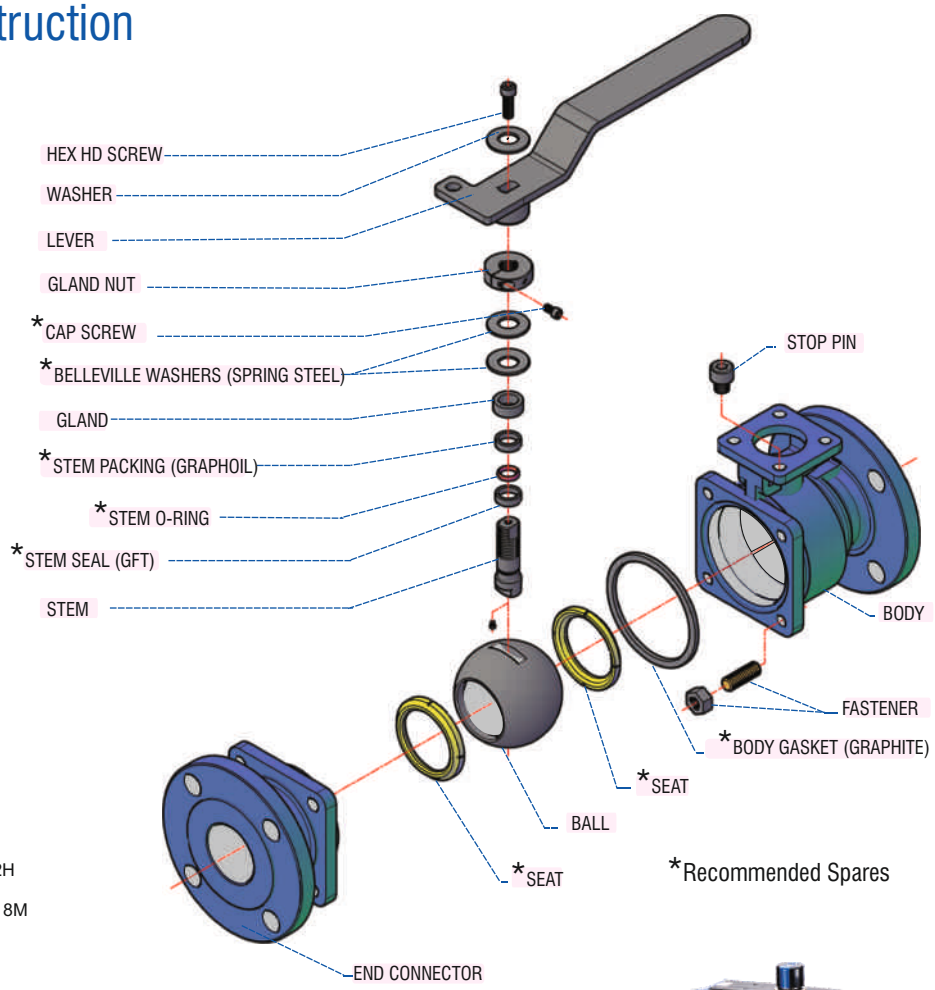
Ball
- ASTM A351 CF8
- ASTM A351 CF8M
- ASTM A351 CF3
- ASTM A351 CF3M

Stem
- ASTM A479 SS316
- ASTM A564 17 - 4 PH

Stem O-Ring
- VITON
- EPDM
- BUNA-N

Seat
- RTFE
- PTFE
- PEEK
- Delrin
- Devlon
- Nylon
- ULTRA

Fasteners
- ASTM A 193 GR. B7/A194 GR. 2H
- ASTM A193 GR. B8/A194 GR. 8
- ASTM A193 GR. B8M/A194 GR. 8M
- ASTM A320 GR. L7/A194 GR. 4



*Recommended Spares

Operators



Valves up to size 6" Class 150, 4" Class 300 & 3" Class 600 & 900 can be supplied with handles for manual operation. Pad locking arrangement is provided as an option to prevent unauthorized operation.



All valves can be direct mounted gear operators for manual operation. Gear operators can also be attached with chain-wheel operators for opening or closing valves located on pipelines at elevated locations in the plant.



All valves can be direct mounted with pneumatic actuators or electric actuators and accessories for complete automation options such as fail open/close and positioner controlled. Valves can be mounted with manual overrides.

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