

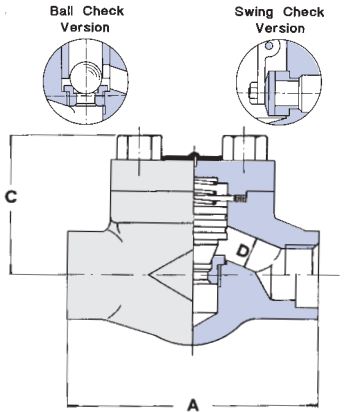


Check valves are uni-directional valves which automatically open with forward flow and close against reverse flow. They are supplied to meet a wide variety of applications with the closing element in the piston, ball or swing type. Piston check valves are normally supplied by OMB with the addition of a spring which allows both the vertical and horizontal installation. Great care is given by OMB employees in the design and in manufacturing to prevent noisy operation and unsatisfactory wear of closure components. The full range of OMB production is reported on pages 32 to 37.

Figure # is identified in each table as:

STANDARD PORT	PISTON	840	-
	BALL	850	
	SWING	860	
FULL PORT	PISTON	640	1/A
	BALL	650	
	SWING	660	

CLASS	DESIGN	CONNECTION	PORT	STANDARD	SCREW & YOKE	ENDS	PAGE	OMB FIG.
800	Piston	Bolted bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	840
800	Piston	Bolted bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	640
800	Ball	Bolted bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	850
800	Ball	Bolted bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	650
800	Swing	Bolted bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	860
800	Swing	Bolted bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	660
800	Piston	Welded Bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	L840
800	Piston	Welded Bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	L640
800	Ball	Welded Bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	L850
800	Ball	Welded Bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	L650
1500	Piston	Bolted bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	R940
1500	Piston	Bolted bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	940
1500	Ball	Bolted bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	R950
1500	Ball	Bolted bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	950
1500	Swing	Bolted bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	R960
1500	Piston	Welded Bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	LR940
1500	Piston	Welded Bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	LR940
1500	Ball	Welded Bonnet	Regular	ISO15761	Outside	Threaded and Socket Weld Ends	33	LR950
1500	Ball	Welded Bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	LR950
1500	Swing	Bolted bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	33	960
1500	Piston	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ940
1500	Ball	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ950
1500	Swing	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ960
2500	Piston	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ2540
2500	Ball	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ2550
2500	Piston	Welded Bonnet	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	L2540
2500	Ball	Welded Bonnet	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	L2550
4500	Piston	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ4540
4500	Ball	Ring Joint BB	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	34	RJ4550
800	Piston Y Pattern	Welded Bonnet	Full	ISO15761	Outside	Threaded and Socket Weld Ends	35	Y640
1500	Piston Y Pattern	Welded Bonnet	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	35	Y940
2500	Piston Y Pattern	Welded Bonnet	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	35	Y2540
4500	Piston	Welded Bonnet	Full	ANSI B16.34	Outside	Threaded and Socket Weld Ends	35	Y4540
150	Piston	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F1-840
150	Ball	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F1-850
300	Piston	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F3-840
300	Ball	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F3-850
600	Piston	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F6-840
150	Swing	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F1-860
300	Swing	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F3-860
600	Swing	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F6-860
600	Ball	Bolted bonnet	Regular	ISO15761	Outside	Flanged	36	F6-850
150	Piston	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F1-640
150	Ball	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F1-650
300	Piston	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F3-640
300	Ball	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F3-650
600	Piston	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F6-640
600	Ball	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F6-650
150	Swing	Bolted bonnet	Full	ISO15761	Outside	Flanged	36	F1-660
300	Swing	Ring Joint BB	Full	ISO15761	Outside	Flanged	36	F3-RJ-660
600	Swing	Ring Joint BB	Full	ISO15761	Outside	Flanged	36	F6-RJ-660
1500	Piston	Ring Joint BB	Full	ISO15761	Outside	Flanged	37	F9-RJ-940
1500	Ball	Ring Joint BB	Full	ISO15761	Outside	Flanged	37	F9-RJ-950
1500	Swing	Ring Joint BB	Full	ISO15761	Outside	Flanged	37	F9-RJ-960
2500	Piston	Ring Joint BB	Full	ANSI B16.34	Outside	Flanged	37	F25-RJ-2540
2500	Ball	Ring Joint BB	Full	ANSI B16.34	Outside	Flanged	37	F25-RJ-2550
2500	Swing	Ring Joint BB	Full	ANSI B16.34	Outside	Flanged	37	F25-RJ-2560
1500	Piston Y Pattern	Welded Bonnet	Full	ISO15761	Outside	Flanged	37	9-Y940
2500	Piston Y Pattern	Welded Bonnet	Full	ANSI B16.34	Outside	Flanged	37	25-Y2540

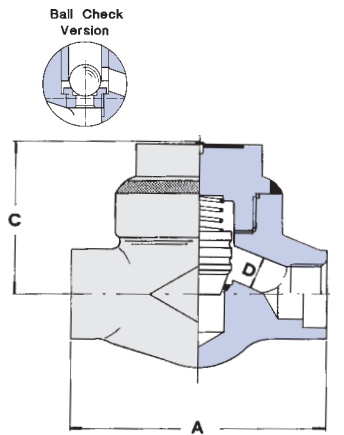


RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 800

PISTON, BALL AND SWING TYPE - STANDART PORT TO API602/ISO 15761 - FULL PORT TO BS 5352
Bolted Cover - Threaded and Socket Weld Ends

STANDARD PORT		PISTON 840	-		1/2		3/4		1		1.1/4		1.1/2		2		-	
FULL PORT		PISTON BALL 640	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		SWING 860																
End to End	PISTON - BALL	A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
	SWING	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26
Center to Top		C	53	2.08	53	2.08	60	2.36	73	2.87	80	3.14	98	3.85	118	4.64	150	5.90
Dia. of Port	PISTON - BALL	D	7	0.28	9	0.35	13	0.51	17.5	0.69	23	0.88	29.5	1.16	35	1.38	45.5	1.79
	SWING	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	48	1.89
Approx. Weight	PISTON - BALL	Kg / Lb	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	7.4	16.2	8	17.6	18	39.6
	SWING	Kg / Lb	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	5.5	12.1	6.5	14.3	17.5	38.5

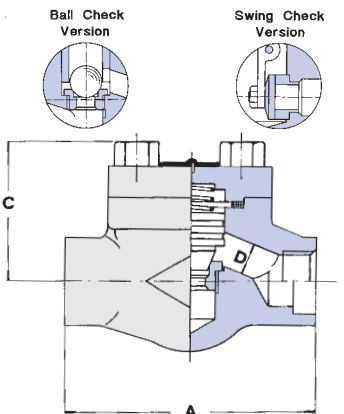


RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 800

PISTON AND BALL TYPE - STANDART PORT TO API602/ISO 15761 - FULL PORT TO BS 5352
Welded Cover - Threaded and Socket Weld Ends

STANDARD PORT		PISTON L840	-		1/2		3/4		1		1.1/4		1.1/2		2		-	
FULL PORT		BALL L850	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		PISTON L640																
End to End		A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
		A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26
Center to Top		C	53	2.08	53	2.08	60	2.36	73	2.87	80	3.14	98	3.85	110	4.33	150	5.90
Dia. of Port		D	7	0.28	9	0.35	13	0.51	17.5	0.69	23	0.88	29.5	1.16	35	1.37	45.5	1.79
Approx. Weight		Kg / Lb	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	7.4	16.3	8	17.6	17	37.4

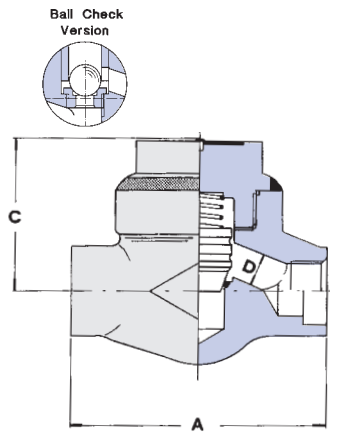


RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500

PISTON, BALL AND SWING TYPE - STANDART PORT TO API602/ISO 15761 - FULL PORT TO BS 5352
Bolted Cover - Threaded and Socket Weld Ends

STANDARD PORT		PISTON R940	-		1/2		3/4		1		1.1/4		1.1/2		2		-	
FULL PORT		BALL R950	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		SWING R960																
End to End	PISTON - BALL	A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
	SWING	A	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26
Center to Top		C	60	2.36	60	2.36	73	2.87	80	3.14	98	3.85	118	4.64	150	5.90	150	5.90
Dia. of Port	PISTON - BALL	D	7	0.28	9	0.35	13	0.51	17.5	0.69	21	0.83	28	1.10	33	1.30	37.5	1.48
	SWING	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	40	1.57
Approx. Weight	PISTON - BALL	Kg / Lb	1.5	3.3	1.5	3.3	2.8	6.1	4.6	10.1	7.4	16.2	9	19.8	19.5	49.9	19	41.8
	SWING	Kg / Lb	1.6	3.5	1.5	3.3	2.4	5.2	4	8.8	6	13.2	9.5	20.9	19	41.8	18.5	40.7



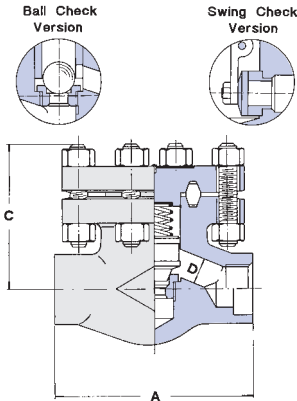
RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500

PISTON AND BALL TYPE - STANDART PORT TO API602/ISO 15761 - FULL PORT TO BS 5352
Welded Cover - Threaded and Socket Weld Ends

STANDARD PORT		PISTON LR940	-		1/2		3/4		1		1.1/4		1.1/2		2		-	
FULL PORT		BALL LR950	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		PISTON L940																
End to End		A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
		A	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26
Center to Top		C	60	2.36	60	2.36	73	2.87	80	3.14	98	3.85	110	4.33	150	5.90	150	5.90
Dia. of Port		D	7	0.28	9	0.35	13	0.51	17	0.67	21	0.83	28	1.10	33	1.30	37.5	1.47
Approx. Weight		Kg / Lb	1.5	3.3	1.5	3.3	2.8	6.1	4.6	10.1	7.4	16.3	9	19.8	15	33.0	14.5	31.9





RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

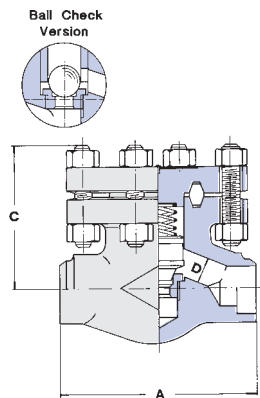
CLASS 1500 PISTON, BALL AND SWING TYPE - FULL PORT BS 5352

Round Bolted Cover - Threaded and Socket Weld Ends

FULL PORT	PISTON BALL SWING RJ940 RJ950 RJ960	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	110	4.33	150	5.90	150	5.90	-	-	210	8.26	235	9.25
Center to Top	C	-	-	-	-	100	3.93	130	5.11	145	5.70	-	-	160	6.29	195	7.67
Dia. of Port	PISTON - BALL	D	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	37.5	1.48
	SWING	D	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	48	1.89
Approx. Weight	PISTON - BALL	Kg / Lb	-	-	-	4	8.8	7.5	16.5	9	19.8	-	-	18.5	40.7	30	66
	SWING	Kg / Lb	-	-	-	3.8	8.37	7	15.4	8.5	18.7	-	-	17.5	38.5	29	63.8

Spiral wound gasket joint available on request

Ring-Joint gasket according to ASME B16.20 - API 6A



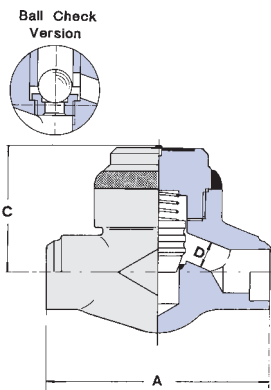
RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

CLASS 2500 PISTON AND BALL TYPE - FULL PORT - ASME B16.34

Round Bolted Cover - Socket and Butt Weld Ends

FULL PORT	PISTON BALL RJ2540 RJ2550	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	150	5.90	150	5.90	210	8.26	-	-	235	9.25	235	9.25
Center to Top	C	-	-	-	-	130	5.11	130	5.11	160	6.29	-	-	195	7.67	195	7.67
Dia. of Port	D	-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	35	1.37
Approx. Weight	Kg / Lb	-	-	-	-	7	15.4	6.8	14.9	17.5	38.5	-	-	29	63.8	29	63.8

Ring-Joint gasket according to ASME B16.20 - API 6A



RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

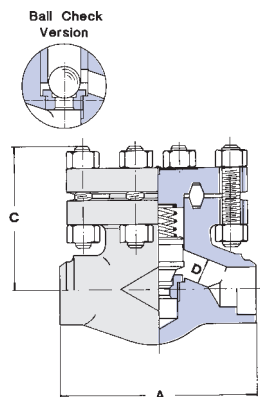
CLASS 2500 PISTON AND BALL TYPE - FULL PORT - ASME B16.34

Welded Cover - Socket and Butt Weld Ends

FULL PORT	PISTON BALL L2540 L2550	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	127	5.00	155	6.10	170	6.69	-	-	235	9.25	235	9.25
Center to Top	C	-	-	-	-	80	3.14	98	3.85	110	4.33	-	-	170	6.69	170	6.69
Dia. of Port	D	-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	35	1.37
Approx. Weight	Kg / Lb	-	-	-	-	5	11.0	8	17.6	10	22.0	-	-	21.5	47.3	21.3	46.9

CLASS 4500 PISTON AND BALL TYPE - FULL PORT - ASME B16.34

Round Bolted Cover - Socket and Butt Weld Ends



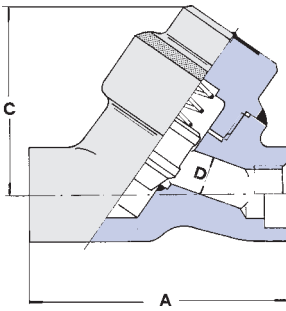
RATINGS: Carbon Steel - 11110 p.s.i. @ 100°F

FULL PORT	PISTON BALL RJ4540 RJ4550	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	210	8.26	210	8.26	235	9.25	-	-	235	9.25	-	-
Center to Top	C	-	-	-	-	160	6.29	160	6.29	195	7.67	-	-	195	7.67	-	-
Dia. of Port	D	-	-	-	-	9	0.35	11	0.43	14	0.55	-	-	28	1.10	-	-
Approx. Weight	Kg / Lb	-	-	-	-	18	39.6	18	39.6	29.5	65.0	-	-	29.5	65.0	-	-

Ring-Joint gasket according to ASME B16.20 - API 6A

CLASS 800

PISTON TYPE - FULL PORT BS 5352 Welded Cover - Threaded and Socket Weld Ends

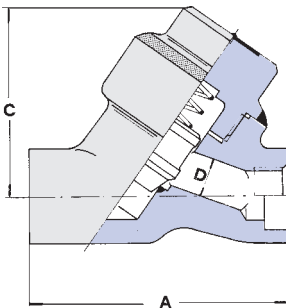


FULL PORT	Y640	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	110	4.33	110	4.33	110	4.33	110	4.33	142	5.59	142	5.59	170	6.69	180	7.08
Center to Top	C	65	2.55	65	2.55	65	2.55	65	2.55	80	3.14	95	3.74	115	4.52	135	5.31
Dia. of Port	D	7	0.27	9	0.35	13	0.51	17.5	0.68	22.5	0.88	29.5	1.16	35	1.37	45.5	1.79
Approx. Weight	Kg / Lb	1.2	2.6	1.2	2.6	1.2	2.6	1.2	3.9	3	6.6	3.3	7.2	5.8	12.7	7	15.4

RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 1500-1700

WELDED BONNET - FULL PORT BS 5352 Welded Cover - Threaded and Socket Weld Ends

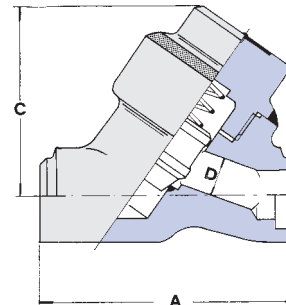


FULL PORT	Y940 Y940*	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	110	4.33	110	4.33	110	4.33	142	5.59	142	5.59	170	6.69	170	6.69	180	7.08
Center to Top	C	70	2.75	70	2.75	70	2.75	100	3.93	100	3.93	120	4.72	120	4.72	140	5.51
Dia. of Port	D	7	0.27	9	0.35	11	0.43	15	0.59	19.5	0.76	27.5	1.08	31.5	1.24	39	1.53
Approx. Weight	Kg / Lb	1.5	3.3	1.5	3.3	1.5	3.3	3.2	7.0	3.2	7.0	6	13.2	6.2	13.6	9.5	20.9

RATINGS: Carbon Steel
Class 1500 - 3705 p.s.i. @ 100°F
*Class 1700 - 4198 p.s.i. @ 100°F

CLASS 2500-2700

WELDED BONNET - FULL PORT - ASME B16.34 Welded Cover - Socket and Butt Weld Ends

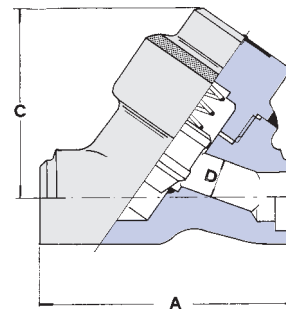


FULL PORT	Y2540 Y2540*	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	142	5.59	142	5.59	142	5.59	170	6.69	170	6.69	180	7.08	225	8.86	225	8.86
Center to Top	C	115	4.52	115	4.52	115	4.52	120	4.72	150	5.90	150	5.90	160	6.30	170	6.70
Dia. of Port	D	7	0.27	9	0.35	11	0.43	15	0.59	19.5	0.76	27.5	1.08	31.5	1.24	39	1.53
Approx. Weight	Kg / Lb	3.2	7.0	3.2	7.0	3.5	7.7	3.5	7.7	6.2	13.7	5.6	12.3	10.4	22.9	14	30.8

RATINGS: Carbon Steel
Class 2500 - 6170 p.s.i. @ 100°F
*Class 2700 - 6664 p.s.i. @ 100°F

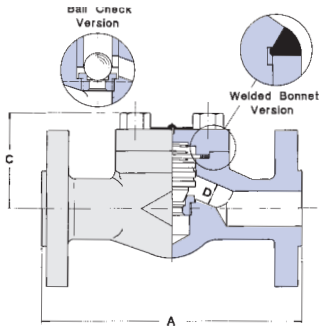
CLASS 4500

PISTON TYPE - FULL PORT - ASME B16.34 Welded Cover - Socket and Butt Weld Ends



FULL PORT	Y4540	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	170	6.69	170	6.69	170	6.69	170	6.69	170	6.69	-	-	225	8.86	225	8.86
Center to Top	C	120	4.72	120	4.72	120	4.72	120	4.72	145	5.70	-	-	160	6.30	160	6.30
Dia. of Port	D	7	0.27	9	0.35	11	0.43	11	0.43	15	0.59	-	-	26	1.02	28	1.10
Approx. Weight	Kg / Lb	8.7	19.1	8.7	19.1	8.7	19.1	8.0	17.6	7.6	16.7	-	-	16.5	36.3	16	35.2

RATINGS: Carbon Steel - 11110 p.s.i. @ 100°F



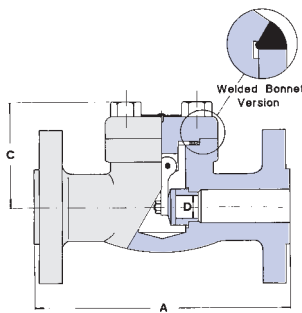
RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

CLASS 150-300-600

PISTON AND BALL TYPE - STANDART PORT TO API602/ISO 15761
 Bolted Cover - Integral Flanged Ends according to ASME B16.5

STANDARD PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 150	PISTON BALL F1-840 F1-850	A	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99
Class 300	PISTON BALL F3-840 F3-850	A	-	-	-	152	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5
Class 600	PISTON BALL F6-840 F6-850	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Center to Top Open	Class 150	C	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33
	Class 300-600	C	-	-	-	53	2.08	60	2.36	73	2.87	-	-	98	3.85	110	4.33
Dia. of Port		D	-	-	-	9	0.35	13	0.51	17.5	0.69	-	-	29.5	1.16	35	1.37
Approx. Weight	Class 150	Kg/Lb	-	-	-	2.9	6.4	3.2	7.0	4.3	9.5	-	-	6.5	14.3	14.5	31.9
	Class 300	Kg/Lb	-	-	-	3.6	7.9	4.2	9.2	6	13.2	-	-	12	26.4	16	35.2
	Class 600	Kg/Lb	-	-	-	4.1	9.0	4.7	10.4	6.3	13.8	-	-	13	28.6	17	37.4

End to End dimensions according to ASME B16.10



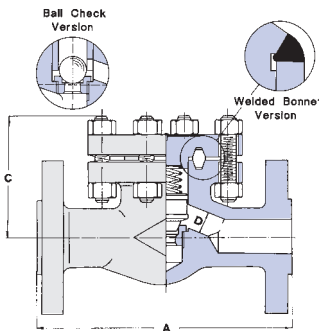
RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

CLASS 150-300-600

SWING TYPE - STANDART PORT TO API602/ISO 15761
 Round Bolted Cover - Integral Flanged Ends according to ASME B16.5

STANDARD PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 150	F1-860	A	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99
Class 300	F3-860	A	-	-	-	152	6.02	178	7.00	216	8.50	-	-	241	9.48	267	10.5
Class 600	F6-860	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Center to Top Open	Class 150	C	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33
	Class 300-600	C	-	-	-	53	2.08	60	2.36	73	2.87	-	-	98	3.85	110	4.33
Dia. of Port		D	-	-	-	9.6	0.38	14	0.55	18	0.70	-	-	30	1.18	37	1.45
Approx. Weight	Class 150	Kg/Lb	-	-	-	2.9	6.4	3.2	7.0	4.3	9.5	-	-	6.5	14.3	14.5	31.9
	Class 300	Kg/Lb	-	-	-	3.6	7.9	4.2	9.2	6.1	13.4	-	-	13	28.6	16	35.2
	Class 600	Kg/Lb	-	-	-	4.1	9.0	4.7	10.4	6.3	13.8	-	-	13	28.6	17	37.4

End to End dimensions according to ASME B16.10



RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

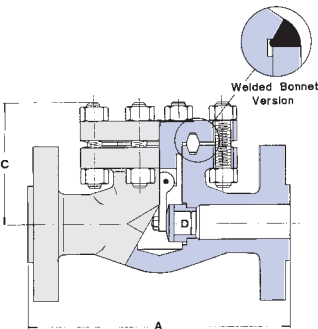
CLASS 150-300-600

PISTON AND BALL TYPE - FULL PORT BS 5352
 Bolted Cover - Integral Flanged Ends according to ASME B16.5

FULL PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 150	PISTON BALL F1-640 F1-650	A	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99
Class 300	PISTON BALL F3-RJ640 F3-RJ650	A	-	-	-	152	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5
Class 600	PISTON BALL F6-RJ640 F6-RJ650	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Center to Top Open	Class 150	C	-	-	-	75	2.95	100	3.93	110	4.33	-	-	120	4.72	147	5.78
	Class 300-600	C	-	-	-	115	4.52	130	5.11	140	5.51	-	-	170	6.69	195	7.67
Dia. of Port		D	-	-	-	13	0.51	17.5	0.69	22.5	0.89	-	-	35	1.37	45.5	1.79
Approx. Weight	Class 150	Kg/Lb	-	-	-	3.2	7.0	3.5	7.7	4.6	10.1	-	-	7.0	15.4	16	35.2
	Class 300	Kg/Lb	-	-	-	4.6	10.1	6.1	13.4	9.1	20.0	-	-	16	35.2	21	46.2
	Class 600	Kg/Lb	-	-	-	4.8	10.5	6.3	13.8	9.3	20.5	-	-	16.5	36.3	22	48.4

End to End dimensions according to ASME B16.10
 Spiral wound gasket joint and for #150

Ring-Joint gasket according to ASME B16.20 - API 6A



RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

CLASS 150-300-600

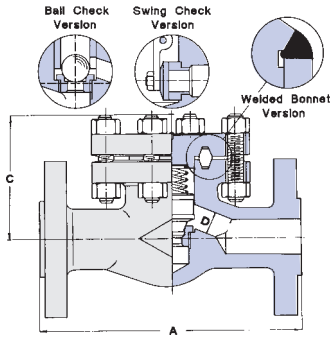
SWING TYPE - FULL PORT BS 5352
 Bolted Cover - Integral Flanged Ends according to ASME B16.5

FULL PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 150	F1-660	A	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99
Class 300	F3-RJ660	A	-	-	-	152	6.02	178	7.00	216	8.50	-	-	241	9.48	267	10.5
Class 600	F6-RJ660	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Center to Top Open	Class 150	C	-	-	-	75	2.95	100	3.93	110	4.33	-	-	120	4.72	147	5.78
	Class 300-600	C	-	-	-	115	4.52	130	5.11	140	5.51	-	-	170	6.69	195	7.67
Dia. of Port		D	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	48	1.89
Approx. Weight	Class 150	Kg/Lb	-	-	-	3.1	6.8	3.4	7.5	4.5	9.9	-	-	6.8	14.9	15.7	34.5
	Class 300	Kg/Lb	-	-	-	4.6	10.1	6.1	13.4	9.3	20.5	-	-	16.5	36.3	21	46.2
	Class 600	Kg/Lb	-	-	-	4.8	10.5	6.3	13.8	9.3	20.5	-	-	16.5	36.3	22	48.4

End to End dimensions according to ASME B16.10
 Spiral wound gasket joint for #150

Ring-Joint gasket according to ASME B16.20 - API 6A





RATINGS: Carbon Steel - 3075 p.s.i. @ 100°F

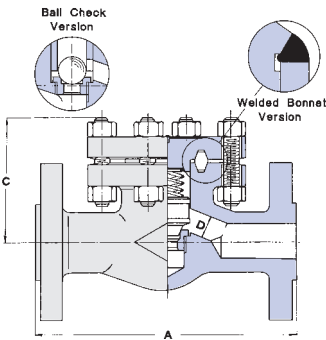
CLASS 1500 PISTON, BALL AND SWING TYPE - FULL PORT BS 5352

Round Bolted Cover - Integral Flanged Ends according to ASME B16.5

FULL PORT	PISTON BALL SWING	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	216	8.50	229	9.01	254	10.0	-	-	305	12.0	368	14.5
Center to Top	C	-	-	-	-	130	5.11	140	5.51	155	6.10	-	-	170	6.69	195	7.67
Dia. of Port	PISTON - BALL	D	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	37.5	1.48
	SWING	D	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	48	1.89
Approx. Weight	PISTON - BALL	Kg / Lb	-	-	-	8	17.6	14	30.8	17	37.5	-	-	28	61.6	37	81.4
	SWING	Kg / Lb	-	-	-	7.8	17.1	13.8	30.4	16.5	36.3	-	-	27	59.5	35	77.1

End to End dimensions according to ASME B16.10
Spiral wound gasket joint available on request

Ring-Joint gasket according to ASME B16.20 - API 6A



RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

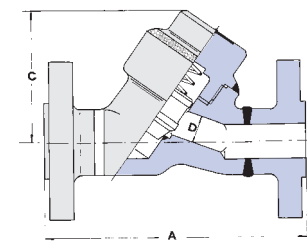
CLASS 2500 PISTON AND BALL TYPE - FULL PORT - ASME B16.34

Round Bolted Cover - Integral Flanged Ends according to ASME B16.5

FULL PORT	PISTON BALL	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	264	10.4	273	10.7	308	12.1	-	-	384	15.1	451	17.7
Center to Top	C	-	-	-	-	155	6.10	155	6.10	170	6.69	-	-	245	9.64	260	10.23
Dia. of Port	D	-	-	-	-	11	0.43	17	0.67	21	0.83	-	-	33	1.30	37.5	1.48
Approx. Weight	Kg / Lb	-	-	-	-	17	37.5	21	46.2	28	61.6	-	-	58	127.7	85	187.2

End to End dimensions according to ASME B16.10

Ring-Joint gasket according to ASME B16.20 - API 6A



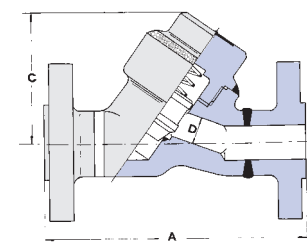
RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500 PISTON TYPE - STANDART PORT TO API602/ISO 15761

Welded Cover - Flanged Ends according to ASME B16.5

FULL PORT	9-Y940	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	216	8.50	229	9.01	254	10.0	-	-	305	12.0	368	14.5
Center to Top	C	-	-	-	-	70	2.75	100	3.93	100	3.93	-	-	120	4.72	140	5.51
Dia. of Port	D	-	-	-	-	11	0.43	15	0.59	19.5	0.76	-	-	31.5	1.24	39	1.53
Approx. Weight	Kg / Lb	-	-	-	-	7.4	16.3	9.5	21.0	10.6	23.3	-	-	18.2	40.0	33.5	73.8

End to End dimensions according to ASME B16.10



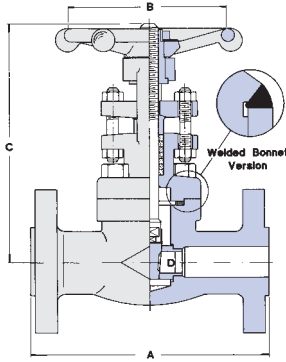
RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

CLASS 2500 PISTON TYPE - FULL PORT - ASME B16.34

Welded Cover - Flanged Ends according to ASME B16.5

FULL PORT	25-Y2540	1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	264	10.4	273	10.7	308	12.1	-	-	384	15.1	451	17.7
Center to Top	C	-	-	-	-	115	4.52	120	4.72	150	5.90	-	-	165	6.49	180	7.08
Dia. of Port	D	-	-	-	-	11	0.43	15	0.59	19.5	0.76	-	-	31.5	1.24	39	1.53
Approx. Weight	Kg / Lb	-	-	-	-	12	26.4	14.2	31.3	20.2	44.5	-	-	37.4	82.3	65.6	144.5

End to End dimensions according to ASME B16.10



RATINGS: Carbon Steel
 Class 10K - 14 bar @ 29°F
 Class 20K - 34 bar @ 29°F
 Class 40K - 68 bar @ 29°F

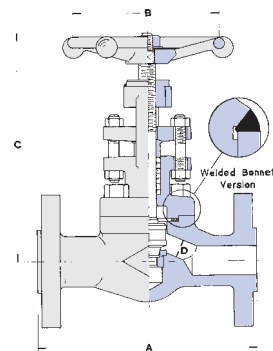
CLASS 10K-20K-40K

GATE VALVES - BOLTED BONNET- JIS 2071:2000

Outside Screw & Yoke - Integral Flanged Ends according to JIS B2238

REGULAR PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 10K	F10K-810	A	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	178	7.00
Class 20K	F20K-810	A	-	-	-	140	5.51	152	5.98	165	6.49	-	-	190	7.48	216	8.50
Class 40K	F40K-810	A	-	-	-	165	6.49	190	7.48	216	8.50	-	-	241	9.48	292	11.5
Handwheel		B	-	-	-	80	3.14	80	3.14	110	4.33	-	-	130	5.11	130	5.11
Center to Top Open	Class 10K-20K	C	-	-	-	170	6.69	195	7.67	203	7.99	-	-	243	9.56	262	10.3
Dia. of Port		D	-	-	-	9.6	0.38	14	0.55	18	0.70	-	-	30	1.18	37	1.45
Approx. Weight	Class 10K	Kg/Lb	-	-	-	3.4	7.5	3.8	8.3	5.7	12.5	-	-	9.7	21.4	13.2	29.1
	Class 20K	Kg/Lb	-	-	-	3.9	8.6	5	11.0	6.2	13.6	-	-	12	26.4	16.5	36.3
	Class 40K	Kg/Lb	-	-	-	4	8.8	5.2	11.4	7.5	16.5	-	-	15	33.0	20.5	45.1

End to End dimensions according to JIS B2002



RATINGS: Carbon Steel
 Class 10K - 14 bar @ 29°F
 Class 20K - 34 bar @ 29°F
 Class 40K - 68 bar @ 29°F

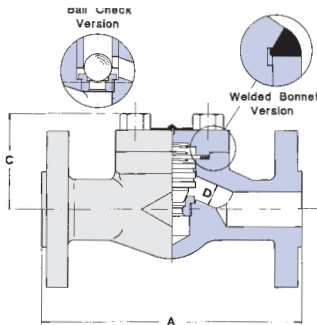
CLASS 10K-20K-40K

GATE VALVES - BOLTED BONNET- JIS 2071:2000

Outside Screw & Yoke - Integral Flanged Ends according to JIS B2238

REGULAR PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 10K	F10K-830	A	-	-	-	108	4.25	117	4.60	127	5.00	-	-	165	6.49	203	7.99
Class 20K	F20K-830	A	-	-	-	152	5.98	178	7.00	203	7.99	-	-	229	9.01	267	10.5
Class 40K	F40K-830	A	-	-	-	165	6.49	190	7.48	216	8.50	-	-	241	9.48	292	11.5
Handwheel		B	-	-	-	80	3.14	80	3.14	110	4.33	-	-	130	5.11	180	7.08
Center to Top Open	Class 20K-40K	C	-	-	-	148	5.82	165	6.49	180	7.08	-	-	248	9.76	257	10.1
Dia. of Port		D	-	-	-	9	0.35	13	0.51	17.5	0.69	-	-	29.5	1.16	35	1.37
Approx. Weight	Class 10K	Kg/Lb	-	-	-	3.4	7.5	4	8.8	5.7	12.5	-	-	10	22.0	17.0	37.4
	Class 20K	Kg/Lb	-	-	-	4	8.8	5	11.0	7.3	16.1	-	-	14	30.8	20.5	45.1
	Class 40K	Kg/Lb	-	-	-	4.5	9.9	5.5	12.1	7.6	16.7	-	-	15	33.0	21	46.2

End to End dimensions according to JIS B2002



RATINGS: Carbon Steel
 Class 10K - 14 bar @ 29°F
 Class 20K - 34 bar @ 29°F
 Class 40K - 68 bar @ 29°F

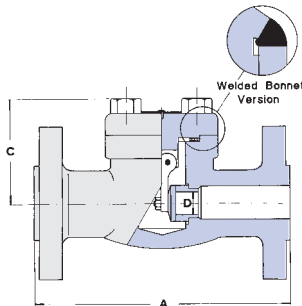
CLASS 10K-20K-40K

PISTON AND BALL VALVES - BOLTED COVER - JIS 2071:2000

Integral Flanged Ends according to JIS B2238

REGULAR PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 10K	PISTON F10K-840 BALL F10K-850	A	-	-	-	108	4.25	117	4.60	127	5.00	-	-	165	6.49	203	7.99
Class 20K	PISTON F20K-840 BALL F20K-850	A	-	-	-	152	5.98	178	7.00	203	7.99	-	-	229	9.01	267	10.5
Class 40K	PISTON F40K-840 BALL F40K-850	A	-	-	-	165	6.49	190	7.48	216	8.50	-	-	241	9.48	292	11.5
Center to Top Open	Class 10K	C	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33
Dia. of Port		D	-	-	-	9	0.35	13	0.51	17.5	0.69	-	-	29.5	1.16	35	1.37
Approx. Weight	Class 10K	Kg/Lb	-	-	-	2.9	6.4	3.2	7.0	4.3	9.5	-	-	6.5	14.3	14.5	31.9
	Class 20K	Kg/Lb	-	-	-	3.6	7.9	4.2	9.2	6	13.2	-	-	12	26.4	16	35.2
	Class 40K	Kg/Lb	-	-	-	4.1	9.0	4.7	10.4	6.3	13.8	-	-	13	28.6	17	37.4

End to End dimensions according to JIS B2002



RATINGS: Carbon Steel
 Class 10K - 14 bar @ 29°F
 Class 20K - 34 bar @ 29°F
 Class 40K - 68 bar @ 29°F

CLASS 10K-20K-40K

SWING VALVES - BOLTED COVER - JIS 2071:2000

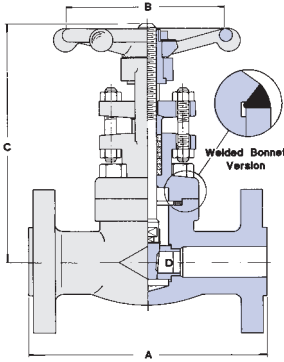
Integral Flanged Ends according to JIS B2238

REGULAR PORT		1/4		3/8		1/2		3/4		1		1.1/4		1.1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 10K	F10K-860	A	-	-	-	108	4.25	117	4.60	127	5.00	-	-	165	6.49	203	7.99
Class 20K	F20K-860	A	-	-	-	153	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5
Class 40K	F40K-860	A	-	-	-	165	6.49	190	7.48	216	8.50	-	-	241	9.48	292	11.5
Center to Top Open	Class 10K	C	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33
Dia. of Port		D	-	-	-	9.6	0.38	14	0.55	18	0.70	-	-	30	1.18	37	1.45
Approx. Weight	Class 10K	Kg/Lb	-	-	-	2.9	6.4	3.2	7.0	4.3	9.5	-	-	6.5	14.3	14.5	31.9
	Class 20K	Kg/Lb	-	-	-	3.6	7.9	4.2	9.2	6.1	13.4	-	-	13	28.6	16	35.2
	Class 40K	Kg/Lb	-	-	-	4.1	9.0	4.7	10.4	6.3	13.8	-	-	13	28.6	17	37.4

End to End dimensions according to JIS B2002

DIN PN25/40/63/100 GATE VALVES - BOLTED BONNET - IN ACCORDANCE TO DIN STANDARD

Outside Screw & Yoke - Integral Flanged Ends according to DIN 2634/2635/2636/2637



RATINGS: Carbon Steel
 DIN PIN - 25-40 - 40 bar @ 29°C
 DIN PIN - 63-100 - 100 bar @ 29°C

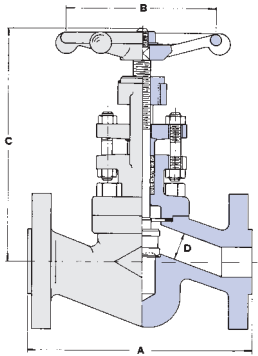
FULL PORT	PN25 PN100	F4U-610 F10U-610	-		DIN 15		DIN 20		DIN 25		DIN 32		DIN 40		DIN 50	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	PN 25-40	A	-	-	130	5.11	150	5.90	160	6.30	-	-	240	9.44	250	9.84
	PN 63-100	A	-	-	140	5.51	150	5.90	160	6.30	-	-	240	9.44	250	9.84
Handwheel		B	-	-	80	3.14	110	4.33	110	4.33	-	-	130	5.11	180	7.08
Center to Top Open		C	-	-	152	5.98	182	7.16	214	8.42	-	-	270	10.6	333	13.1
Dia of Port		D	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	47	1.85
Approx.	PN 25-40	Kg / Lb	-	-	4.4	9.7	6.5	14.3	7.9	17.4	-	-	13	28.6	24.5	53.9
Weight	PN 63-100	Kg / Lb	-	-	5	11.0	7.4	16.3	9.4	20.7	-	-	15	33.0	27	59.4

End to End dimensions according to DIN 3202

PN 63 and PN 100 Welded Flanged

DIN PN25/40/63/100 GLOBE VALVES - BOLTED BONNET - IN ACCORDANCE TO DIN STANDARD

Outside Screw & Yoke - Integral Flanged Ends according to DIN 2634/2635/2636/2637



RATINGS: Carbon Steel
 DIN PIN - 25-40 - 40 bar @ 29°C
 DIN PIN - 63-100 - 100 bar @ 29°C

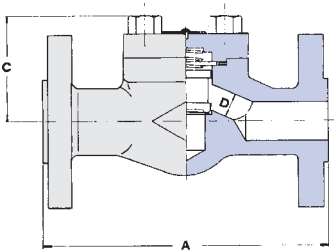
FULL PORT	PN25 PN100	F4U-630 F10U-630	-		DIN 15		DIN 20		DIN 25		DIN 32		DIN 40		DIN 50	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	PN 25-40	A	-	-	130	5.11	150	5.90	160	6.30	-	-	200	7.87	230	9.05
	PN 63-100	A	-	-	210	8.26	230	9.05	230	9.05	-	-	260	10.2	300	11.8
Handwheel		B	-	-	80	3.14	110	4.33	110	4.33	-	-	130	5.11	180	7.08
Center to Top Open		C	-	-	180	7.08	185	7.28	215	8.46	-	-	260	10.2	230	9.0
Dia of Port		D	-	-	15	0.59	19	0.75	24	0.95	-	-	38	1.49	50	1.96
Approx.	PN 25-40	Kg / Lb	-	-	5	11.0	6.5	14.3	8.5	18.7	-	-	14	30.8	24.5	53.9
Weight	PN 63-100	Kg / Lb	-	-	6.5	14.3	8.0	17.6	10	22.0	-	-	16.5	36.3	30	66.0

End to End dimensions according to DIN 3202

PN 63 and PN 100 Welded Flanged

DIN PN25/40/63/100 PISTON CHECK - BOLTED COVER - IN ACCORDANCE TO DIN STANDARD

Integral Flanged Ends according to DIN 2634/2635/2636/2637



RATINGS: Carbon Steel
 DIN PIN - 25-40 - 40 bar @ 29°C
 DIN PIN - 63-100 - 100 bar @ 29°C

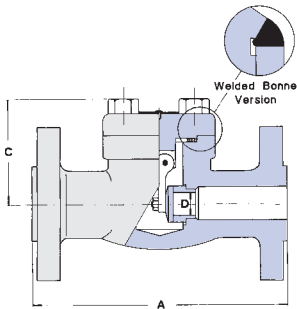
FULL PORT	PN25 PN100	F4U-640 F10U-640	-		DIN 15		DIN 20		DIN 25		DIN 32		DIN 40		DIN 50	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	PN 25-40	A	-	-	130	5.11	150	5.90	160	6.30	-	-	200	7.87	230	9.05
	PN 63-100	A	-	-	210	8.26	230	9.05	230	9.05	-	-	260	10.2	300	11.8
Center to Top Open		C	-	-	85	3.34	90	3.54	95	3.74	-	-	135	5.31	120	4.72
Dia of Port		D	-	-	15	0.59	19	0.75	24	0.95	-	-	38	1.49	50	1.96
Approx.	PN 25-40	Kg / Lb	-	-	3.5	7.7	4.0	8.8	6.0	13.2	-	-	11	24.2	16	35.2
Weight	PN 63-100	Kg / Lb	-	-	5	11.0	5.5	12.1	7.5	16.5	-	-	13.5	29.7	21.5	47.3

End to End dimensions according to DIN 3202

PN 63 and PN 100 Welded Flanged

DIN PN25/40/63/100 PISTON CHECK - BOLTED COVER - IN ACCORDANCE TO DIN STANDARD

Integral Flanged Ends according to DIN 2634/2635/2636/2637



RATINGS: Carbon Steel
 DIN PIN - 25-40 - 40 bar @ 29°C
 DIN PIN - 63-100 - 100 bar @ 29°C

FULL PORT	PN25 PN100	F4U-640 F10U-640	-		DIN 15		DIN 20		DIN 25		DIN 32		DIN 40		DIN 50	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	PN 25-40	A	-	-	130	5.11	150	5.90	160	6.30	-	-	200	7.87	230	9.05
	PN 63-100	A	-	-	210	8.26	230	9.05	230	9.05	-	-	260	10.2	300	11.8
Center to Top Open		C	-	-	85	3.34	90	3.54	95	3.74	-	-	135	5.31	120	4.72
Dia of Port		D	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	47	1.85
Approx.	PN 25-40	Kg / Lb	-	-	3.2	7.0	3.5	7.7	5.5	12.1	-	-	10.5	23.1	15	33.0
Weight	PN 63-100	Kg / Lb	-	-	4.7	10.3	5	11.0	7	15.4	-	-	13	28.6	20.5	45.1

End to End dimensions according to DIN 3202

PN 63 and PN 100 Welded Flanged