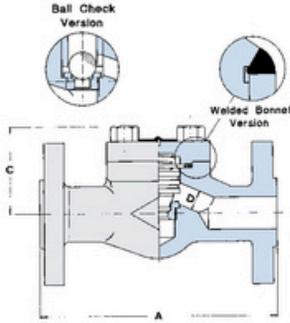


2	NAMEPLATE	A corrosion resistant metal.
10	BOLTS	Unless other materials are agreed between the purchaser and manufacturer, refer to the recommended bolting material in Annex G of API 602.
14	GASKET	Refer to API 602 (see 5.5.3).
15	SEAT	The base material of the seat ring, when used, shall be of a nominal material composition equal to the body material or the stem material. Refer to API 602 (see 6.1.4).
18	BODY	A forging, forged bar or casting material as selected from ASME B16.34, Group 1, 2 or Group 3 and listed in Table 1 of API 602.
19	DISC	The base material of the wedge/disc shall be of a nominal material composition equal to the body material or the stem material. Refer to API 602. (see 6.1.4).
20	SPRING	Similar material composition as would be used for a valve stem, based on the valve trim requirement.
21	BALL	The base material of the wedge/disc shall be of a nominal material composition equal to the body material or the stem material. Refer to API 602. (see 6.1.4).
22	PISTON	The base material of the wedge/disc shall be of a nominal material composition equal to the body material or the stem material. Refer to API 602. (see 6.1.4).
23	RIVET*	Manufacturer standard, refer to table below.
24	BONNET	A forging, forged bar or casting material as selected from ASME B16.34, Group 1, 2 or Group 3 and listed in Table 1 of API 602.
25	SUPPORT*	Manufacturer standard, refer to table below.
26	HINGE PIN	Similar material composition as would be used for a valve stem, based on the valve trim requirement.
27	DISC HINGE	Similar material composition as would be used for a valve stem, based on the valve trim requirement.
28	DISC NUT	Similar material composition as would be used for a valve stem, based on the valve trim requirement.
31	BALL GUIDE*	Manufacturer standard, refer to table below.

DESCRIPTION	A105N/F6	A105N/F6HFS	LF2/F304	F11/F6HFS	F304/F304	F316/F316
RIVET	316	316	316	316	316	316
NAMEPLATE	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
BOLTS	B7	B7	L7	B16	B8M CL.1	B8M CL.1
BONNET/COVER	A105N	A105N	LF2	F11 Cl.2	304/304L	316/316L
GASKET	316+Graphite	316+Graphite	316+Graphite	316+Graphite	316+Graphite	316+Graphite
SEAT	F6a Cl.2 (410)	410 HF	304/304L	410 HF	304/304L	316
SPRING (*)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	X-750
PISTON	F6a Cl.2 (410)	F6a Cl.2 (410)	304/304L	F6a Cl.2 (410)	304/304L	316
BODY	A105N	A105N	LF2	F11 Cl.2	304/304L	316/316L
BALL	F6a Cl.2 (410)	F6a Cl.2 (410)	316	F6a Cl.2 (410)	316	316
BALL GUIDE	LF2	LF2	LF2	316	316	316
DISC	F6a Cl.2 (410)	F6a Cl.2 (410)	304/304L	F6a Cl.2 (410)	304/304L	316
SUPPORT	LF2	LF2	LF2	316	316	316
HINGE PIN	F6a Cl.2 (410)	F6a Cl.2 (410)	316	F6a Cl.2 (410)	316	316
DISC HINGE	F6a Cl.2 (410)	F6a Cl.2 (410)	316	F6a Cl.2 (410)	316	316
DISC NUT	Gr.8M	Gr.8M	Gr.8M	Gr.8M	Gr.8M	Gr.8M

NOTE \* Spring is an optional feature for Ball Check valves, supplied upon request.

**F1-840/F3-840/F6-840/ F1-850/F3-850/F6-850**


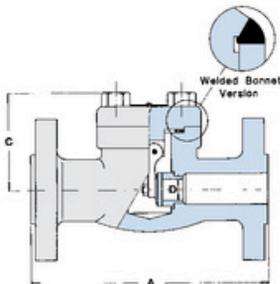
RATINGS: Carbon Steel  
 Class 150: 285 p.s.i. @ 100°F - Class 300: 740 p.s.i. @ 100°F  
 Class 600: 1480 p.s.i. @ 100°F

## CLASS 150-300-600 PISTON AND BALL TYPE - STANDARD BORE - API602/ISO 15761

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

STANDARD BORE		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	A	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99
	BALL F1-850	A	-	-	-	152	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5
Class 300	PISTON BALL F3-840	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
	BALL F3-850	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Class 600	PISTON BALL F6-840	A	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33
	BALL F6-850	A	-	-	-	53	2.08	60	2.36	73	2.87	-	-	98	3.85	110	4.33
Center to Top Open		C	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33
Flow Passageway		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 dimension according to ASME B16.10

**F1-860/F3-860/F6-860**


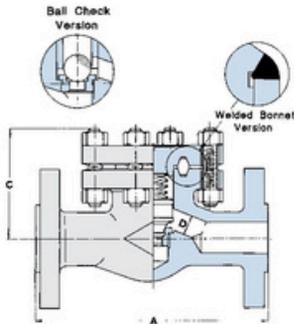
RATINGS: Carbon Steel  
 Class 150: 285 p.s.i. @ 100°F - Class 300: 740 p.s.i. @ 100°F  
 Class 600: 1480 p.s.i. @ 100°F

## CLASS 150-300-600 SWING TYPE - STANDARD BORE - API602/ISO 15761

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

STANDARD BORE		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
	F3-860	A	-	-	-	152	6.02	178	7.00	216	8.50	-	-	241	9.48	292	11.5
Class 300	F3-860	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
	F6-860	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Open Center to Top	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
Flow Passageway		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 dimension according to ASME B16.10

**F6-RJ840/F6-RJ850**


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 600 PISTON AND BALL TYPE - FULL BORE - BS 5352

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

FULL BORE		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 600	PISTON BALL F6-RJ840	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
	BALL F6-RJ850	A	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Open Center to Top	Class 150	C	-	-	-	75	2.95	100	3.93	100	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
Flow Passageway		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 dimension according to ANSI B16.10  
 Spiral wound gasket joint for #150

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