



NEWCO FIGURE NUMBERS

Type	Pressure Class	End Connections	Trim Material
1 = Gate, OS&Y	1 = 150	F = Flanged	1 = CR13
2 = Globe, OS&Y	3 = 300	W = Butt Weld	2 = CR13/HF**
3 = Swing Check	6 = 600	S = Socket Weld	3 = HF/HF**
4 = Lift Check	8 = 800	T = Threaded	4 = 316
7 = Angle, OS&Y	15 = 1500	X = Special (Customer to specify)	4/2 = HF**/316
	25 = 2500		4/3 = 316/HF**
	45 = 4500		5 = NI CU (Monel***)
			5/2 = HF**/Monel***
			5/3 = Monel***/HF**
			9 = Special (Customer to specify)

FIG. 18T-FS2-*

BODY/BONNET MATERIAL

FS	= ASTM A105	= Forged Carbon Steel
F5	= ASTM A182, F5	= Forged Alloy Steel (5% Chrome, ½% Moly)
LF-2	= ASTM A350, LF2	= Forged Low Temperature Carbon Steel
F9	= ASTM A182, F9	= Forged Alloy Steel (9% Chrome, 1% Moly)
F11	= ASTM A182, F11	= Forged Alloy Steel (1¼% Chrome, ½% Moly) (Class 2)
F22	= ASTM A182, F22	= Forged Alloy Steel (2¼% Chrome, 1% Moly) (Class 3)
F91	= ASTM A182, F91	= Forged Alloy Steel (9% Chrome, 1 Moly, Vanadium)
SPL	= Special	= Special (Customer to Specify)

Note: Trim Materials Defined on Page 4.

* SUFFIX LETTERS

Y	= Y Pattern
INT	= Integral Flanged
WB	= Welded Bonnet
HP	= Horizontal Piston Check
HB	= Horizontal Ball Check
VB	= Vertical Ball Check
FP	= Full Port
RP	= Regular Port
TF	= Teflon* Insert
VT	= Viton* Insert
N1	= NACE Valve, Class I Bolting
N2	= NACE Valve, Class II Bolting
N3	= NACE Valve, Class III Bolting
MO	= Motor Operator
PO	= Pneumatic Operator
HO	= Hydraulic Operator
CR	= Cryogenic Service
OX	= Oxygen Service
CL	= Chlorine Service
GI	= Grease Injection
BS	= Bellows Seal
ST	= Socket Weld x Threaded
EB	= Extended Body

- * = Viton and Teflon are registered trademarks of DuPont Company.
 ** HF = Hardfaced - AWS 5.13 Class C₀C_RA.
 *** = Monel is a registered trademark of International Nickel Company.

For End Connections, Body Materials and Trims not listed, please specify

Please order by size, figure number (which specifies type), pressure class, end connections, materials and special features, as shown above.



MATERIALS SPECIFICATIONS

MATERIALS

Standard stocked material in A105 with NEWCO No. 2 Trim. (API Trim No. 8)
Bellow Seal and Extended Body Valves are available upon request.

The charts below list materials available.

F8C, F9, F347, & F347H are available upon request and factory ordered.

MATERIALS (BODY / BONNET)

NEWCO Material Designation	Common Designation	ASTM Specification	Standard NEWCO Trim	Optional Available Trim
FS	Carbon Steel	A105	2	3, 4, 4/3, 5
LF2	Low Temp Carbon Steel	A350 Grade LF-2	4/3	4
F11	1¼ Chrome ½ Moly	A182 Grade F-11	2	4, 5
F22	2¼ Chrome 1 Moly	A182 Grade F-22	3	4, 5
F5	5 Chrome ½ Moly	A182 Grade F-5	2	4, 5
F91	F91	A182 Grade F91	3	—

TRIM MATERIALS

NEWCO Trim No.	Seat Ring Facing	Wedge or Disc Facing	Stem	Other Trim Parts	API 602 Trim No.
1	CR13	CR13	F6a	F6a	1
2	Hardfaced	CR13	F6a	F6a	8
3	Hardfaced	Hardfaced	F6a	F6a	5
4	316	316	316	316	10
4/2	Hardfaced	316	316	316	12
4/3	Hardfaced	Hardfaced	316	316	16
5	NICU	NICU	NICU	NICU	9
5/2	Hardfaced	NICU	NICU	NICU	11
5/3	Hardfaced	Hardfaced	NICU	NICU	—
9	SPL	SPL	SPL	SPL	—

SPECIFICATIONS

NEWCO forged steel valves comply with the following applicable specifications:

ASME	API	MSS
B16.34	598	SP-84
B16.11	602	
B1.20.1		

Note: Bolted bonnet valves are also available in welded bonnet configuration.
Full Penetrant Welded Flanged Ends available in Class 600.

SOCKET WELD DIMENSIONS

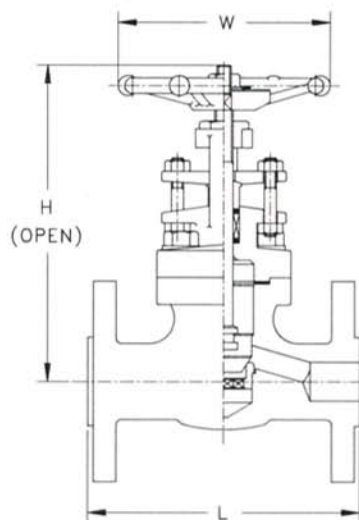
Tolerances
Column A Dimensions + 010-000

Valve Size	Socket Dia. A	Min. ANSI B16.11 Socket Depth B
¼	.555	.38
⅜	.690	.38
½	.855	.38
¾	1.065	.50
1	1.330	.50
1¼	1.675	.50
1½	1.915	.50
2	2.406	.62



GLOBE VALVES

BOLTED BONNET CLASS 150-300-600-800-1500



FEATURES

- Spiral wound gasket of stainless steel and flexible graphite with controlled compression.
- Flexible graphite packing with braided end rings.

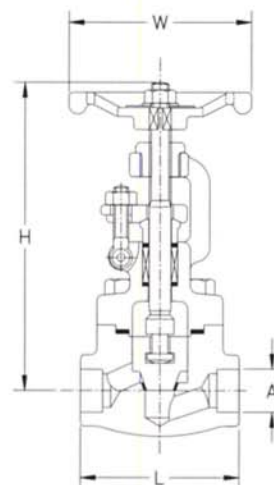


Fig. 21F-FS2-INT Class 150 (Flanged)
Fig. 23F-FS2-INT Class 300 (Flanged)
Fig. 26F-FS2-INT Class 600 (Flanged)

Fig. 28S-FS2 Class 800 (Socket Weld)
Fig. 28T-FS2 Class 800 (Threaded)

Fig. 215S-FS2 Class 1500 (Socket Weld)
Fig. 215T-FS2 Class 1500 (Threaded)

Also available in Class 2500

CLASS 150-300-600 DIMENSIONS

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L - 150 Face to Face	IN	4.25	4.62	5.0	5.5	6.5	8.0
	MM	108	117	127	140	165	203
L - 300 Face to Face	IN	6.0	7.0	8.0	8.5	9.0	10.5
	MM	152	178	203	216	229	267
L - 600 Face to Face	IN	6.5	7.5	8.5	9.0	9.5	11.5
	MM	165	190	216	229	241	292
W - Handwheel Dia.	IN	5.2	5.8	7.2	9.0	9.2	10.5
	MM	132	147	183	229	234	267
H - Height (150)	IN	7.32	7.4	8.1	9.5	11.4	12.1
	MM	186	188	205	240	290	308
H - Height (300)	IN	6.1	6.1	7.3	9.4	11.4	12.1
	MM	155	155	185	240	290	308
H - Height (600)	IN	6.1	6.1	7.3	9.4	11.4	12.1
	MM	155	155	185	240	290	308
WT - CLASS 150	LB	6.8	7.5	17.2	24.3	25.1	35.3
	KG	3.1	3.4	7.8	11.0	11.4	16.0
WT - CLASS 300	LB	7.3	8.0	22.5	30.4	31.3	39.2
	KG	3.3	3.6	10.2	13.8	14.2	17.8
WT - CLASS 600	LB	7.7	8.4	24.3	34.0	32.6	44.1
	KG	3.5	3.8	11.0	15.4	14.8	20.0

For materials and applicable specifications see page 4.

CLASS 800 DIMENSIONS

NPS		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
H - Height (open)	IN	4.9	4.9	5.8	6.1	7.3	8.6	9.5	10.3
	MM	124	124	147	155	185	218	241	262
W - Handwheel Dia.	IN	3.2	3.2	5.2	5.8	7.2	8.9	9.2	10.5
	MM	80	80	132	147	183	226	234	267
L - End to End	IN	2.56	2.56	3.15	3.55	4.33	5.12	6.10	6.77
	MM	65	65	80	90	110	130	155	172
WT	LB	2.2	2.2	4.2	4.6	8.4	12.3	17.2	24.9
	KG	1.0	1.0	1.9	2.1	3.8	5.6	7.8	11.3

CLASS 1500 DIMENSIONS

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
H - Height (open)	IN	7.0	8.2	9.4	10.0	12.0	12.8
	MM	180	210	240	255	306	325
W - Handwheel Dia.	IN	5.0	5.0	6.3	6.3	7.0	9.0
	MM	125	125	160	160	180	230
L - End to End	IN	4.33	4.72	5.12	6.69	8.26	8.26
	MM	110	120	130	170	210	210
WT	LB	7.3	12.0	18.3	24.5	45.0	55.4
	KG	3.3	5.5	8.2	10.9	20.0	25.0