

FORGED STEEL

General Specification and Standard

- (1) Basic Standard
 - Gate Valve : API 602/ASME B16.34
 - Check Valve : API 602/ASME B16.34
 - Globe Valve : API 602/ASME B16.34
- (2) Face To Face Dimensions (Flange Type) : ASME B16.10 , ASME B16.10 Class 300 for 10K/150Lb. Flanged
- (3) Flange Dimensions (Flange Type) : JIS B2220 10K/20K/30K/40KF and ASME B16.5 Class 150/300/600
- (4) Screw Dimensions (Screw Type) : JIS B0203Rc (PT) or ASME B16.11 as option
- (5) Socket Weld Dimensions (Socket Weld Type) : JIS B2316 or ASME B16.11 as option

(6) Pressure-Temperature Ratings

● Screw Type and Socket Weld Type (class 800)

Temperature(°C)	-29 ~38	50	100	150	200	250	300	325	350	375	400	425
Working Pressure(MPa)	13.62	13.37	12.43	12.02	11.68	11.18	10.62	10.32	10.02	9.70	9.26	7.67

● JIS Flange Type

Flow and Temperature	Working Pressure(MPa)			
	10K	20K	30K	40K
Steam,Air,Gas,Oil (425°C)	—	2.0	3.0	4.0
Steam,Air,Gas,Oil (400°C)	—	2.3	3.4	4.6
Steam,Air,Gas,Oil, Water (350°C)	—	2.6	3.9	5.2
Steam,Air,Gas,Oil, Water (300°C)	1.0	2.9	4.3	5.7
Steam,Air,Gas,Oil, Water (220°C)	1.2	3.1	4.6	6.2
Water(120°C)	1.4	3.4	5.1	6.8

● ASME Flange Type

Temperature(°C)	Class	-29 ~38	50	100	150	200	250	300	325	350	375	400	425
		Working Pressure (MPa)	Class 150	1.96	1.92	1.77	1.58	1.38	1.21	1.02	0.93	0.84	0.74
	Class 300	5.11	5.01	4.66	4.51	4.38	4.19	3.98	3.87	3.76	3.64	3.47	2.88
	Class 600	10.21	10.02	9.32	9.02	8.76	8.39	7.96	7.74	7.51	7.27	6.94	5.75

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Gate Valve OS&Y

Fig No.	Screw	Socket Weld	10K Flanged	20K Flanged	30K Flanged	40K Flanged	150Lb. Flanged	300Lb. Flanged	600Lb. Flanged				
	201	202	203	204	205	206	207	208	209				
Material	SFVC2A(ASME A105)												
Trim	API Trim No.8(Body Seat=Stl. Disc Seat=13Cr. Stem=13Cr.)												
Working Pressure	See(6)Pressure-Temperature Ratings												
Appearance													
Dimension	L	H(Open)	W	L						H(Open)	W		
1/2 inch	15 mm	79	159	100	10K	20K	30K	40K	150Lb.	300Lb.	600Lb.	159	100
3/4	20	92	163	100	152	152	190	190	152	152	190	163	100
1	25	111	201	125	165	165	216	216	165	165	216	201	125
1 1/4	32	120	221	160	178	178	229	229	178	178	229	221	160
1 1/2	40	120	248	160	190	190	241	241	190	190	241	248	160
2	50	140	283	180	216	216	292	292	216	216	292	283	180

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Globe Valve

Fig No.	Screw	Socket Weld	10K Flanged	20K Flanged	30K Flanged	40K Flanged	150Lb. Flanged	300Lb. Flanged	600Lb. Flanged				
	210	211	212	213	214	215	216	217	218				
Material	SFVC2A(ASME A105)												
Trim	API Trim No.8(Body Seat=Stl. Disc Seat=13Cr. Stem=13Cr.)												
Working Pressure	See(6)Pressure-Temperature Ratings												
Appearance													
Dimension	L	H(Open)	W	L						H(Open)	W		
1/2 inch	15 mm	79	168	100	10K	20K	30K	40K	150Lb.	300Lb.	600Lb.	168	100
3/4	20	92	169	100	178	178	190	190	178	178	190	169	100
1	25	111	212	125	203	203	216	216	203	203	216	212	125
1 1/4	32	120	235	160	216	216	229	229	216	216	229	235	160
1 1/2	40	152	267	160	229	229	241	241	229	229	241	267	160
2	50	172	300	180	267	267	292	292	267	267	292	300	180

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Lift Check Valve

Fig No.	Screw	Socket Weld	10K Flanged	20K Flanged	30K Flanged	40K Flanged	150Lb. Flanged	300Lb. Flanged	600Lb. Flanged		
	219	220	221	223	224	225	226	227	228		
Material	SFVC2A(ASME A105)										
Trim	API Trim No.8(Body Seat=Stl. Disc Seat=13Cr. Stem=13Cr.)										
Working Pressure	See(6)Pressure-Temperature Ratings										
Appearance											
Dimension	L	H	L						H		
1/2 inch	15 mm	79	63	10K	20K	30K	40K	150Lb.	300Lb.	600Lb.	63
3/4	20	92	64	178	178	190	190	178	178	190	64
1	25	111	79	203	203	216	216	203	203	216	79
1 1/4	32	120	84	216	216	229	229	216	216	229	84
1 1/2	40	152	105	229	229	241	241	229	229	241	105
2	50	172	124	267	267	292	292	267	267	292	124