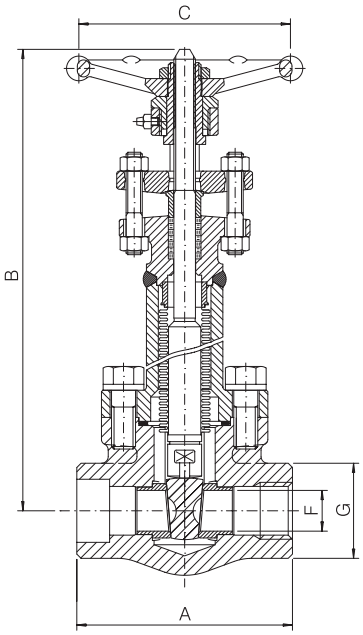
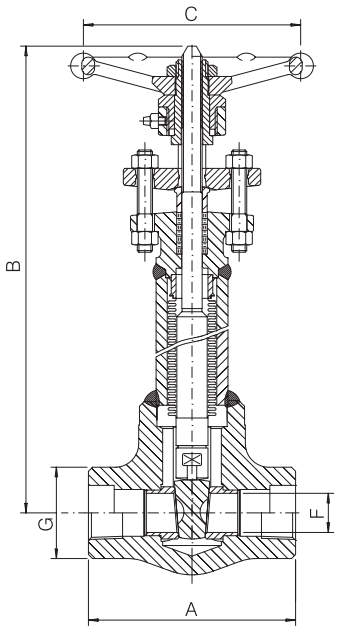
Gate Valves- Bellows Sealed- Welded & Bolted Bonnet- Full & Reduced Port

BONNEY FORGE

800 Lb.
1500 Lb.





Design construction:
API 602, ASME B16.34, MSS-SP-117, BS 5352
Testing according to API 598
Marking MSS-SP-25
Outside Screw and Yoke (OS&Y)
Self aligning two piece packing gland
Spiral wound gasket
Body Bonnet Weld to ASME IX
Integral Backseat
Hydroformed bellows
Grease nipple for stem
Socket Weld Ends to ASME B16.11
Screwed Ends (NPT) to ASME B1.20.1
Butt Welding Ends to ASME B16.25
Ratings:
-carbon steel class 800 1975 psig @ 100°F
138 bar + 38°C
-carbon steel class 1500 3705 psig @ 100°F
255 bar + 38°C

800 LB.

FULL PORT – BOLTED BONNET FIG. S 10 - WELDED BONNET FIG. SHW 10

SIZE inch / mm		1/4 6	3/8 10	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50
A	inch	3.15	3.15	3.54	4.33	5	5	5	8.27
	mm	80	80	90	110	127	127	127	210
B open	inch	9.05	9.05	9.64	11.22	13.19	14.96	16.42	20.87
	mm	230	230	245	285	335	380	417	530
C	inch	3.46	3.46	3.46	3.82	5.43	5.43	5.43	6.77
	mm	88	88	88	97	138	138	138	172
F	inch	.31	.38	.55	.71	.94	1.18	1.44	1.89
	mm	8	9,6	14	18	24	30	36,6	48
G	inch	1.26	1.26	1.50	1.89	2.20	2.52	3.07	3.35
	mm	32	32	38	48	56	64	78	85
Weight Bolted B.	lb.	6	6	6.25	10	15.75	22	28.25	48.5
	kg	2,7	2,7	2,9	4,6	7,2	10	12,8	22
Weight Welded B.	lb.	5	5	5.5	8.25	13.5	18.5	24.5	44
	kg	2,3	2,3	2,5	3,8	6,2	8,4	11,2	20
PACKING		BH2	BH2	BH2	BH4	BH5	BH6	BY5	BH8
GASKET*		G2	G2	G2	G3	G4	G6	G7	G9

800 LB.

REDUCED PORT – BOLTED BONNET FIG. SL 10 - WELDED BONNET FIG. SHWL 10

SIZE inch / mm		1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch	3.15	3.54	4.33	5	5
	mm	80	90	110	127	127
B open	inch	9.05	9.64	11.22	14.96	16.42
	mm	230	245	285	380	417
C	inch	3.46	3.46	3.82	5.43	5.43
	mm	88	88	97	138	138
F	inch	.38	.55	.71	1.18	1.44
	mm	9,6	14	18	30	36,6
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Weight Bolted B.	lb.	6	6.5	9.75	20.75	27
	kg	2,7	3	4,4	9,4	12,3
Weight Welded B.	lb.	4.5	5.25	8.5	19	24.25
	kg	2,1	2,4	3,9	8,6	11
PACKING		BH2	BH2	BH4	BH6	BY5
GASKET*		G2	G2	G3	G6	G7

1500 LB.

FULL PORT – BOLTED BONNET FIG. 9S 10 - WELDED BONNET FIG. 9SHW 10

SIZE inch / mm		1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch	4.33	5	5	8.27	9.05
	mm	110	127	127	210	230
B open	inch	13.98	14.96	17.72	21.65	23.23
	mm	355	380	450	550	590
C	inch	5.43	5.43	6.77	9.21	12.6
	mm	138	138	172	234	320
F	inch	.55	.71	.94	1.44	1.89
	mm	14	18	24	36,6	48
G	inch	1.89	2.20	2.52	3.35	3.74
	mm	48	56	64	85	95
Weight Bolted B.	lb.	11	15.5	21	51.75	88
	kg	5	7	9,5	23,5	40
Weight Welded B.	lb.	10	14.25	18.25	48.5	81.5
	kg	4,5	6,5	8,3	22	37
PACKING		BH5	BH6	2B4	2B5	9B8
GASKET*		G2	G3	G4	G7	G8

1500 LB.

REDUCED PORT – BOLTED BONNET FIG. 9SL 10 - WELDED BONNET FIG. 9SHWL 10

SIZE inch / mm		1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch	3.54	4.33	5	5	8.27
	mm	90	110	127	127	210
B open	inch	12.60	13.98	14.96	17.72	21.65
	mm	320	355	380	450	550
C	inch	5.43	5.43	5.43	9.21	9.21
	mm	138	138	138	234	234
F	inch	.38	.55	.71	1.18	1.44
	mm	9,6	14	18	30	36,6
G	inch	1.50	1.89	2.20	3.07	3.35
	mm	38	48	56	78	85
Weight Bolted B.	lb.	6.5	11	15.5	22	53
	kg	3	5	7	10	24
Weight Welded B.	lb.	6	10	14.25	19.75	48.5
	kg	2,8	4,6	6,5	9	22
PACKING		BH3	BH5	BH6	2B5	BH8
GASKET*		G1	G2	G3	G5	G7

Materials and trim specifications Page 91

* Only for Bolted Bonnet type.