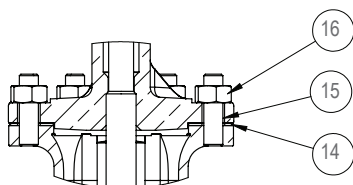
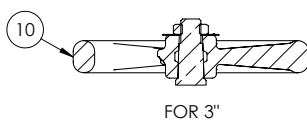
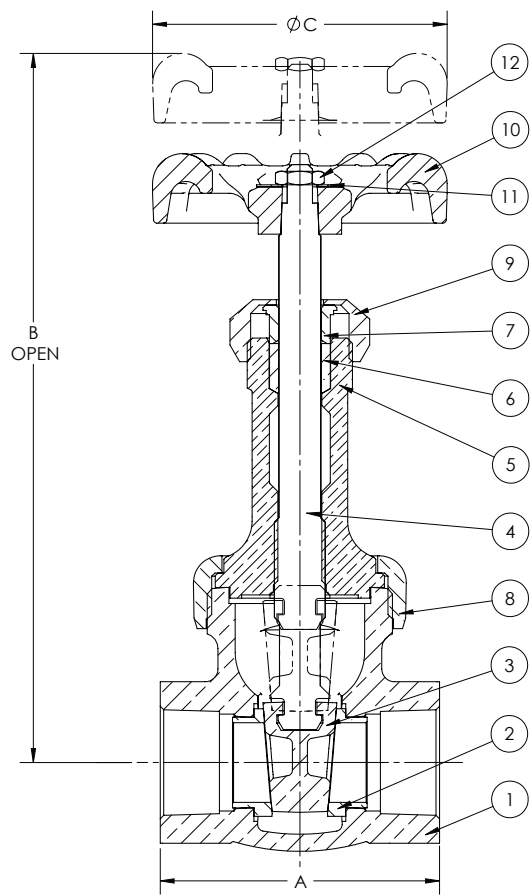


Class 300 • Union Bonnet* • Rising Stem • SS Seats • Thrd. Ends

634E Gate Valve



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Body Seat Ring	Stainless Steel	A-276 Type 410
3	Disc	Bronze	B-61 C92200
4	Stem	Bronze	B-371 C69400
5	Bonnet	Bronze	B-61 C92200
6	Packing	Graphite (Asbestos Free)	
7	Gland	Brass	B-16 H02
8	Union Bonnet Ring	Bronze	B-61 C92200
9	Packing Nut	Brass (1/4 - 1 1/2") Bronze (2" - 3")	B-16 H02 B-61 C92200
10	Handwheel	Cast Iron (1/4 - 2 1/2") Ductile Iron (3")	
12	ID Plate	Aluminum	
13	Lock Nut	Steel Cadmium	
14	Gasket	Synthetic/Glass Fiber with Nitrile Binder	
15	Stud	Steel Cadmium	A-109 C1144
16	Stud Nut	Mild Steel	A-563 GR A

See page 8 for Pressure-Temperature Ratings.

Industry Standards

MSS SP-80, Type 2

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

Valve Size	Dimensions			Wt.
	B	C	A	
1/4	4.67 (119)	2.24 (57)	2.03 (52)	0.88 (0.40)
3/8	7.43 (189)	2.24 (57)	2.13 (54)	0.90 (0.41)
1/2	5.37 (136)	2.76 (70)	2.44 (62)	1.43 (0.65)
3/4	6.56 (167)	2.76 (70)	2.61 (66)	2.07 (0.94)
1	7.60 (193)	2.76 (70)	3.06 (78)	3.23 (1.47)
1 1/4	9.09 (231)	4.02 (102)	3.35 (85)	4.86 (2.21)
1 1/2	10.28 (261)	4.02 (102)	3.69 (94)	6.18 (2.81)
2	12.17 (309)	4.02 (102)	3.96 (101)	10.36 (4.71)
*2 1/2	14.36 (365)	4.75 (121)	4.60 (117)	19.21 (8.73)
*3	16.71 (425)	5.51 (140)	5.63 (143)	32.82 (14.92)

* 2 1/2" and 3" have Bolted Bonnet

Pressure-Temperature Ratings

IMPERIAL UNITS						
Press. Class	125	150		200	300	
End Conn.	THD	THD	FLG	THD	THD**	FLG
Temp °F -20 to 150	PRESSURE – PSI NON-SHOCK					
	ASTM B-62			ASTM B-61		
	200	300	225	400	1000	600
200	185	270	210	375	920	560
250	170	240	195	350	830	525
300	155	210	180	325	740	490
350	140	180	165	300	650	450
400	–	–	–	275	560	410
406	125	150	150	–	–	–
450	120*	145*	–	250	480	375
500	–	–	–	225	390	340
550	–	–	–	200	300	300

METRIC UNITS						
Press. Class	125	150		200	300	
End Conn.	THD	THD	FLG	THD	THD**	FLG
Temp °C -30 to 70	PRESSURE – kPa NON-SHOCK					
	ASTM B-62			ASTM B-61		
	1380	2070	1550	2760	6890	4140
90	1280	1860	1450	2590	6340	3860
120	1170	1660	1340	2410	5720	3620
150	1070	1450	1240	2240	5100	3380
180	970	1240	1140	2070	4490	3100
200	–	–	–	1800	3860	2830
208	860	1030	1030	–	–	–
230	830*	1000*	–	1720	3310	2590
260	–	–	–	1550	2690	2340
290	–	–	–	1380	2070	2070

* Some codes (i.e. ASME BPVC, Section 1) limit the rating temperatures of the indicated material to 406°F (208°C).

** Alternative ratings for valve size 1/8" - 2" having threaded ends and union bonnet, when so indicated on the relevant catalogue pages.

Technical Data: Flow Data (C_v Values)

The flow coefficient C_v expresses flow rate in usg per minute of water at 60°F, with 1.0 psi pressure drop across the valve.

Bronze Gate Valves	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
All	–	8	8	16	36	60	90	140	270	470	680
Globe and Angle Valves											
17TF	–	1.6	3.1	5.1	9.2	16	28	39	66	–	–
382P	–	1.1	2.1	3.3	6.0	10	18	26	44	64	100
384P	–	1.5	3.0	4.9	9.0	15	27	38	64	–	–
7TF, 14 1/2P, 212P	–	1.3	2.4	3.9	7.0	12	21	30	50	74	115
Check Valves											
27TF	–	0.9	1.8	3.0	5.4	9	16	22	39	–	–
366E	–	1.1	2.1	3.3	6.0	10	18	26	44	64	100
76E, 137, 1342, 141TF	–	2.3	4.3	7.2	13	22	39	56	92	135	215
Miscellaneous											
88, 89	0.3	0.6	1.1	1.9	3.4	–	–	–	–	–	–