



**FORGED STEEL GATE VALVE**

**SM800CS/SM800CT**



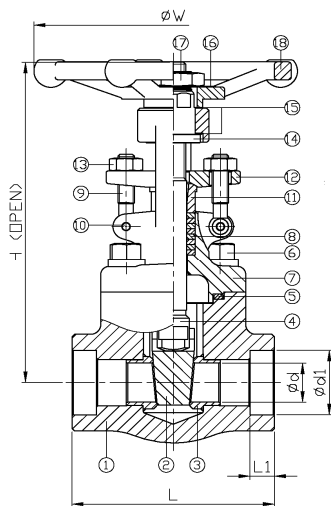
**FEATURES**

- Class 800
- Conventional Port
- OS&Y
- Socket Weld Ends
- Threaded Ends
- Bolted Bonnet
- Rising Stem
- Solid Wedge
- NACE MR-0175

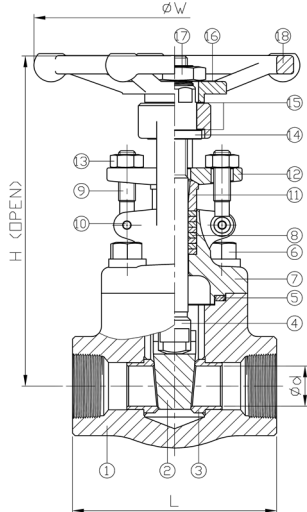
**APPLICABLE STANDARDS**

- Basic Design API 602 & ASME B16.34
- Socket Weld ANSI 16.11
- Threaded ANSI B1.20.1
- Test and Inspection to API 598

**SM800CS - Socket Weld**



**SM800CT - Threaded**



**Materials of Construction**

Item	Part	Material Spec
1	Body	ASTM A105N
2	Wedge	ASTM 276-420
3	Seat Ring	ASTM A276-410 + Stellite
4	Stem	ASTM A276-410
5	Gasket	304 + Graphite
6	Bolt	ASTM A193-B7
7	Bonnet	ASTM A105N
8	Packing	Graphite
9	Eye Bolt	ASTM A193-B7
10	Pin	ASTM A276-304
11	Gland	ASTM A276-420
12	Gland Flange	ASTM A105N
13	Nut	ASTM A194-2H
14	Stem Nut	ASTM A276-410
15	Washer	
16	Nameplate	Aluminum
17	Handwheel Nut	ASTM A108-1020
18	Handwheel	ASTM A197

**SM800CS - Socket Weld Dimensions (Inches)**

Size	d	d1	L	L1	H	W	Torque (in-lbs)	Weight (lbs)
1/4"	0.30	0.56	3.11	0.39	6.18	3.94	354.00	4.40
3/8"	0.39	0.69	3.11	0.39	6.18	3.94	354.00	4.40
1/2"	0.51	0.86	3.11	0.39	6.18	3.94	354.00	4.40
3/4"	0.51	1.07	3.62	0.51	6.18	3.94	398.30	4.90
1"	0.71	1.33	4.37	0.51	7.28	4.72	486.80	7.70
1-1/4"	0.94	1.68	4.72	0.51	8.90	6.30	619.50	11.70
1-1/2"	1.14	1.92	4.72	0.51	9.49	6.30	796.60	13.40
2"	1.44	2.41	5.51	0.65	10.75	8.66	973.60	19.80

**SM800CT - Threaded Dimensions (Inches)**

Size	d	L	H	W	Torque (in-lbs)	Weight (lbs)
1/4"	0.30	3.11	6.18	3.94	354.00	4.40
3/8"	0.39	3.11	6.18	3.94	354.00	4.40
1/2"	0.51	3.11	6.18	3.94	354.00	4.40
3/4"	0.51	3.62	6.18	3.94	398.30	4.90
1"	0.71	4.37	7.28	4.72	486.80	7.70
1-1/4"	0.94	4.72	8.90	6.30	619.50	11.70
1-1/2"	1.14	4.72	9.49	6.30	796.60	13.40
2"	1.44	5.51	10.75	8.66	973.60	19.80

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