

# FORGED STEEL GATE VALVES – ANSI CLASS 150~800

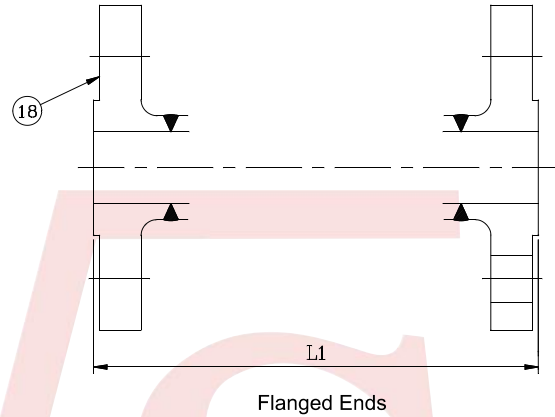
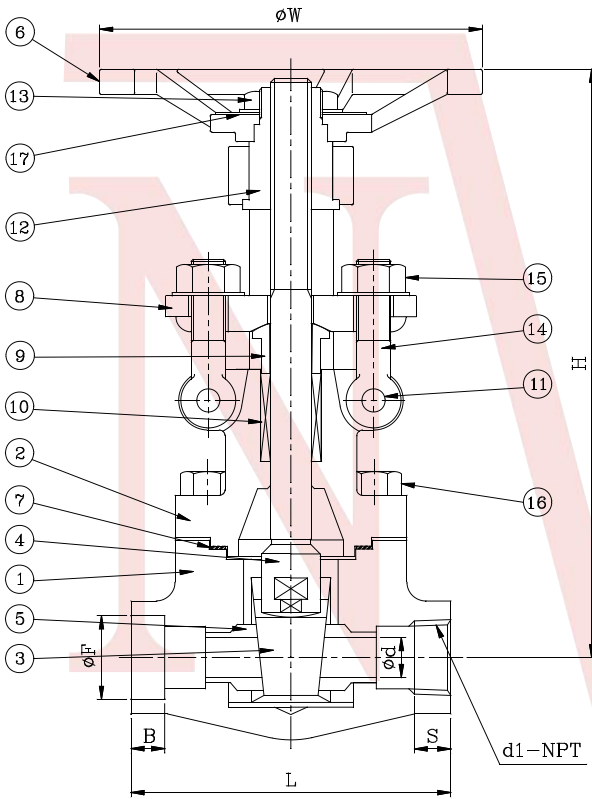
**DESIGN DESCRIPTION:**

- BOLTED BONNET
- O.S & Y

**APPLICABLE STANDARDS:**

- DESIGN PER API 602 / BS 5352
- SOCKET WELD AND THREADED END PER ANSI B16.11
- PIPE THREADS PER ANSI B1.20.1
- FLANGED END PER ANSI B16.5
- INSPECTON AND TEST PER API 598

**SOCKET WELD ENDS**  
**SCREWED ENDS**  
**FLANGED ENDS**



**TEST PRESSURE TO API 598**

PSIG

CLASS	SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
150	450 ( 32 kg/cm <sup>2</sup> )	314 ( 22 kg/cm <sup>2</sup> )	80 ( 6 kg/cm <sup>2</sup> )
300	1125 ( 79 kg/cm <sup>2</sup> )	814 ( 57 kg/cm <sup>2</sup> )	80 ( 6 kg/cm <sup>2</sup> )
600	2225 ( 156 kg/cm <sup>2</sup> )	1628 ( 114 kg/cm <sup>2</sup> )	80 ( 6 kg/cm <sup>2</sup> )
800	3000 ( 210 kg/cm <sup>2</sup> )	2200 ( 154 kg/cm <sup>2</sup> )	80 ( 6 kg/cm <sup>2</sup> )

**PARTS AND MATERIAL (ASTM)**

NO.	PARTS NAME	MATERIALS		
		A105	F304	F316
1	Body	A105	A182-F304	A182-F316
2	Bonnet	A105	A182-F304	A182-F316
3	Disc	A217-CA15	A351-CF8	A351-CF8M
4	Stem	A276-410	A276-304	A276-316
5	Seat	A276-410+H/F STL#6	A276-304+H/F STL#6	A276-316+H/F STL#6
6	Hand Wheel	A47		
7	Gasket	Grafoil + 304 Spiralwound	Grafoil + 304 Spiralwound	Grafoil + 316 Spiralwound
8	Gland Flange	A105	A182-F304	A182-F304
9	Gland	A276-304	A276-304	A276-316
10	Gland Packing	Graphite		
11	Eye Bolt Pin	A276-304		
12	Stem Nut	A276-410		
13	Wheel Nut	A108-1025		
14	Eye Bolt	A193-B8		
15	Eye Bolt Nut	A194-2H	A194-8	A194-8
16	Bonnet Bolt	A193-B7	A193-B8	A193-B8
17	Name Plate	A666-304		
18	Flange	A105	A182-F304	A182-F316

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

**DIMENSION TABLE:**

DN	NPS	Ø d	L	L1			H <sub>(OPEN)</sub>	Ø W	SOCKET WELD		SCREWED		WT.(Kg) SW / NPT
				150#	300#	600#			Ø F	B	d1	S	
15	1/2	13	79	108	140	165	155	100	22	10	1/2" NPT	13.5	1.9
20	3/4	13	92	118	152	191	155	100	27	13	3/4" NPT	14.0	2.2
25	1	19	111	127	165	216	193	125	34	13	1" NPT	17.5	4.1
40	1 1/2	29	120	165	190	241	248	160	49	13	1 1/2" NPT	18.5	7.2
50	2	37	140	178	216	292	286	180	61	16	2" NPT	19.0	10.8