

# FORGED STAINLESS STEEL GATE VALVES - ANSI CLASS 150 ~ 800

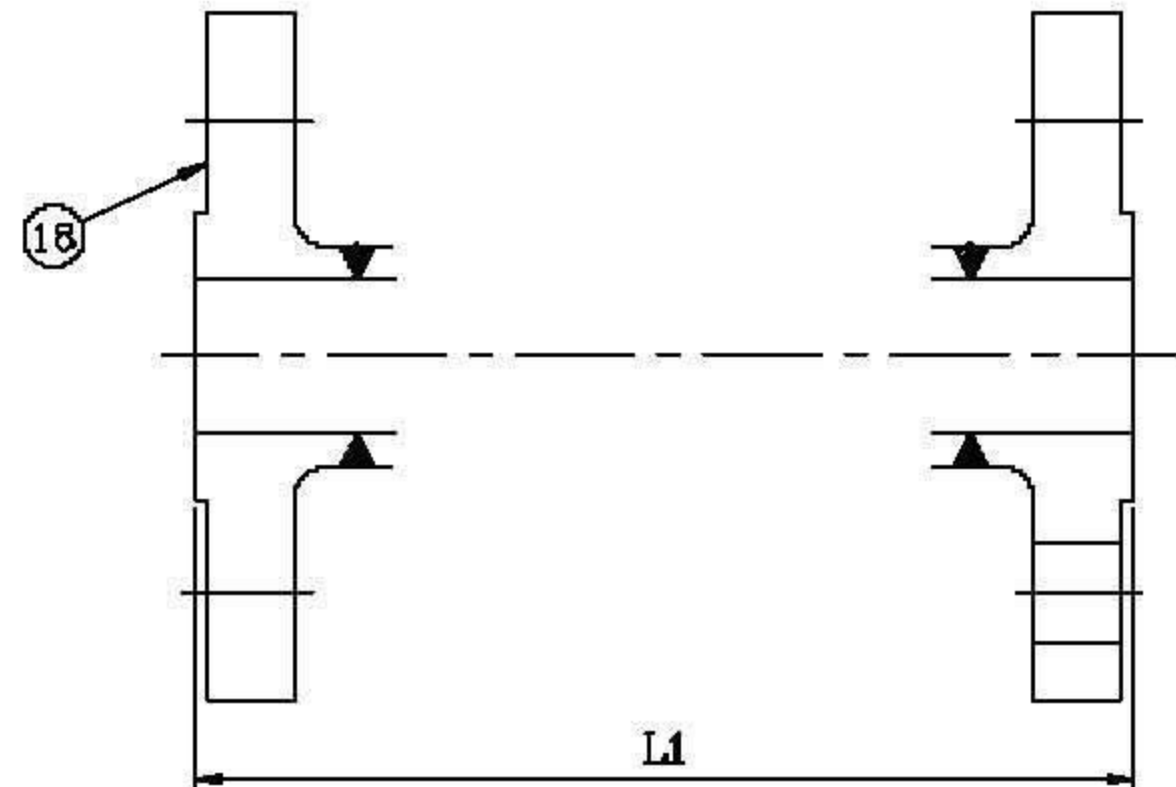
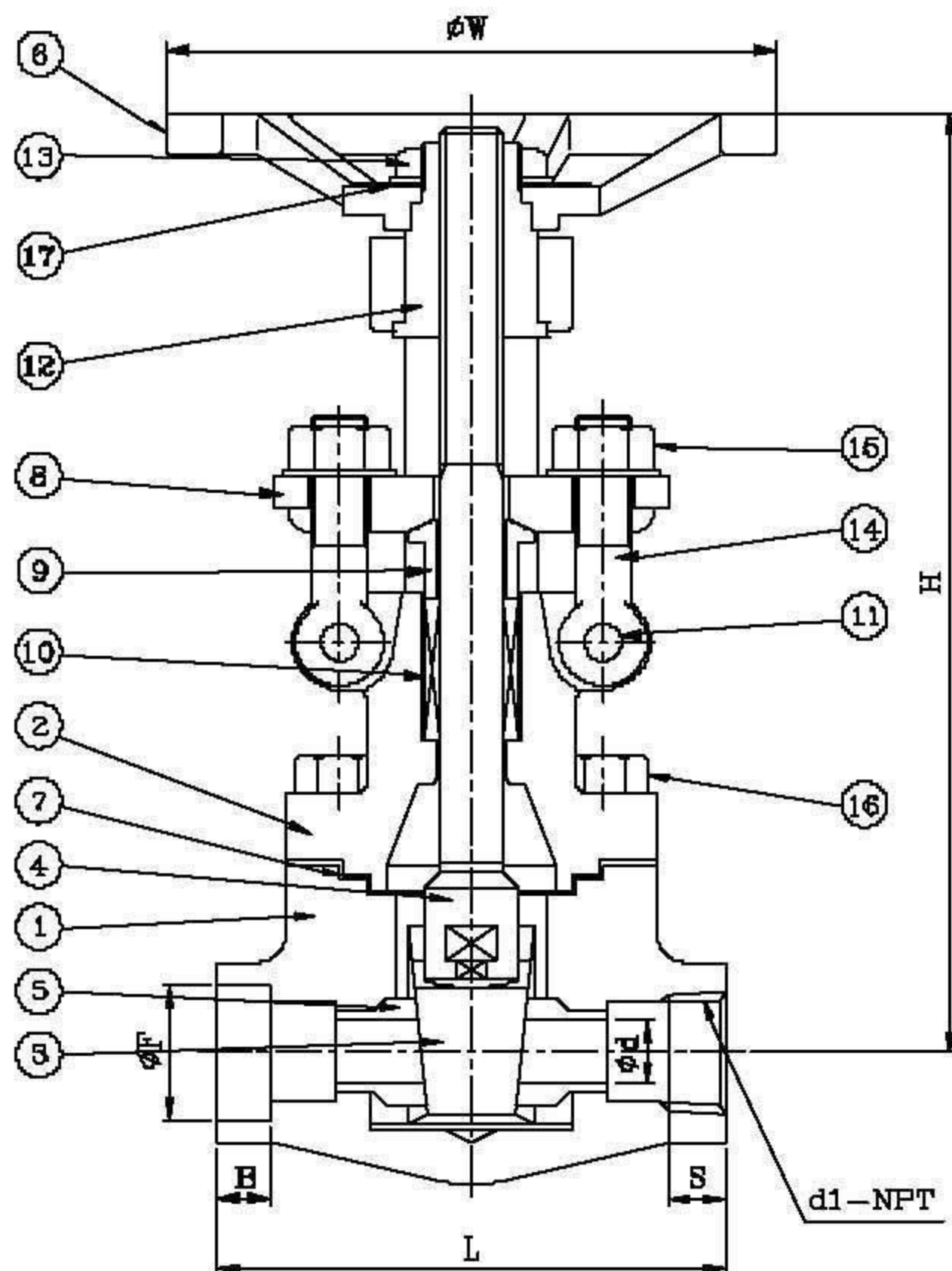
## DESIGN DESCRIPTION:

- 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



Flanged Ends

## PARTS AND MATERIAL (ASTM)

| NO. | PARTS NAME    | MATERIALS                    |                              |
|-----|---------------|------------------------------|------------------------------|
|     |               | F304                         | F316                         |
| 1   | Body          | A182-F304                    | A182-F316                    |
| 2   | Bonnet        | A182-F304                    | A182-F316                    |
| 3   | Disc          | A351-CF8                     | A351-CF8M                    |
| 4   | Stem          | A276-304                     | A276-316                     |
| 5   | Seat          | A276-304+H/V STL#6           | A276-316+H/V STL#6           |
| 6   | Hand Wheel    | A47                          |                              |
| 7   | Gasket        | Grafoil + 304<br>Spiralwound | Grafoil + 316<br>Spiralwound |
| 8   | Gland Flange  | A182-F304                    | A182-F304                    |
| 9   | Gland         | 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  | A194-8                       | A194-8                       |
| 16  | Bonnet Bolt   | A193-B8                      | A193-B8                      |
| 17  | Name Plate    | A666-304                     |                              |
| 18  | Flange        | A182-F304                    | A182-F316                    |

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

## 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> ) |

## DIMENSION TABLE:

| DN | NPS   | ø d | L   | L1   |      |      | H <sub>(OPEN)</sub> | ø W | SOCKET WELD |    | SCREWED    |      | WT.(Kg)<br>SW / NPT |
|----|-------|-----|-----|------|------|------|---------------------|-----|-------------|----|------------|------|---------------------|
|    |       |     |     | 150# | 300# | 600# |                     |     | øF          | 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                |