



### Technical Requirements

1. Design & manufacture as to: API 602
2. Face-to-face dimension standard as to: ASME B16.10
3. Flange dimension conforms as to: ASME B16.5
4. Testing record as to: API 598
5. Pressure-temperature conforms as to: ASME B16.34

### Performance Standard

|                      |                             |         |
|----------------------|-----------------------------|---------|
| Nominal Bore         | NPS                         | 1/2"~2" |
| Nominal Pressure     | Class                       | 150 LB  |
| <b>Pressure Test</b> |                             |         |
| Shell Test           | 3.0                         | Mpa     |
| Seal Test            | 2.2                         |         |
| Backseat Test        | 2.2                         |         |
| Air Test             | 0.6                         |         |
| Working Temperature  | -29°C ~ +425°C              |         |
| Suitable Medium      | Water. Oil. Gas. Steam. etc |         |

|     |  |           |     |
|-----|--|-----------|-----|
| 1.  | Nondestructive Testing                   |           |     |
| 1.1 | Pressure Test                            | Mandatory | Yes |
| 1.2 | Chemical Composition Certification (PMI) | Mandatory | Yes |
| 1.3 | Penetrant Test                           | Mandatory | Yes |
| 1.4 | Magnetic Particle Test                   | Mandatory | Yes |

|    |                 |                 |  |
|----|-----------------|-----------------|--|
| 18 | Locking Nut     | A194 2H         |  |
| 17 | Nameplate       | SS304           |  |
| 16 | Handwheel       | A47             |  |
| 15 | Stem Nuts       | 13Cr            |  |
| 14 | Thrust Washer   | GR.B            |  |
| 13 | Nuts            | A194 2H         |  |
| 12 | Packing Gland   | ASTM A105       |  |
| 11 | Eye-Bolt        | A193 B7         |  |
| 10 | Packing Bushing | 13Cr            |  |
| 9  | Pin             | 13Cr            |  |
| 8  | Packing         | Graphite        |  |
| 7  | Bolt            | A193 B7         |  |
| 6  | Bonnet          | ASTM A105       |  |
| 5  | Gasket Seal     | SS304+Graphite  |  |
| 4  | Stem            | A182 F6a        |  |
| 3  | Wedge           | 13Cr            |  |
| 2  | Seat            | 13Cr+Stellite.6 |  |
| 1  | Body            | ASTM A105       |  |

| Size   |    | Bore | Outline |     |     | Flange Size |       |    |       |      |   |
|--------|----|------|---------|-----|-----|-------------|-------|----|-------|------|---|
| in     | DN | d    | L       | H   | W   | D           | K     | Ød | n-Øz  | B    | F |
| 1/2"   | 15 | 10   | 108     | 180 | 100 | 90          | 60.3  | 35 | 4-Ø16 | 10   | 2 |
| 3/4"   | 20 | 12.7 | 117     | 182 | 100 | 100         | 69.9  | 43 | 4-Ø16 | 11.5 | 2 |
| 1"     | 25 | 18   | 127     | 216 | 125 | 110         | 79.4  | 51 | 4-Ø16 | 13   | 2 |
| 1 1/4" | 32 | 23   | 140     | 240 | 160 | 115         | 88.9  | 64 | 4-Ø16 | 14.5 | 2 |
| 1 1/2" | 40 | 28.5 | 165     | 246 | 160 | 125         | 98.4  | 73 | 4-Ø16 | 16   | 2 |
| 2"     | 50 | 36   | 178     | 283 | 180 | 150         | 120.7 | 92 | 4-Ø19 | 17.5 | 2 |

| No.      | Name | Material       | Remark                                    |
|----------|------|----------------|---|
| TAG NO.: |      |                |   |
|          |      | <b>SBM PTV</b> |   |
| Design   |      | Approve        | Graphics Genral View                      |
| Technics |      | Date           | Describe Gate Valve                       |
| Check    |      |                | Model NPS 1/2"~2" Class 150LB RF Trim:08# |