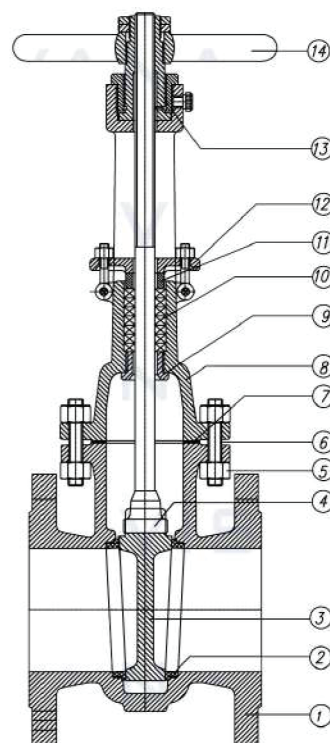




## STANDARD MATERIAL To API 600

| Trim Code | Seat Ring Surface Part No.2 | Wedge Surface Part No.3 | Stem Part No.4 |  |
|-----------|-----------------------------|-------------------------|----------------|--|
| 1         | F6                          | F6                      | F6             |  |
| 2         | F304                        | F304                    | F304           |  |
| 5         | Stellite                    | Stellite                | F6             |  |
| 8         | Stellite                    | F6                      | F6             |  |
| 9         | Monel                       | Monel                   | Monel          |  |
| 10        | F316                        | F316                    | F316           |  |
| 13        | Alloy 20                    | Alloy 20                | Alloy 2        |  |

Note: Usually, trim2 and trim 10 are not adopted because the sealing face would be destroyed easily.

## Standards

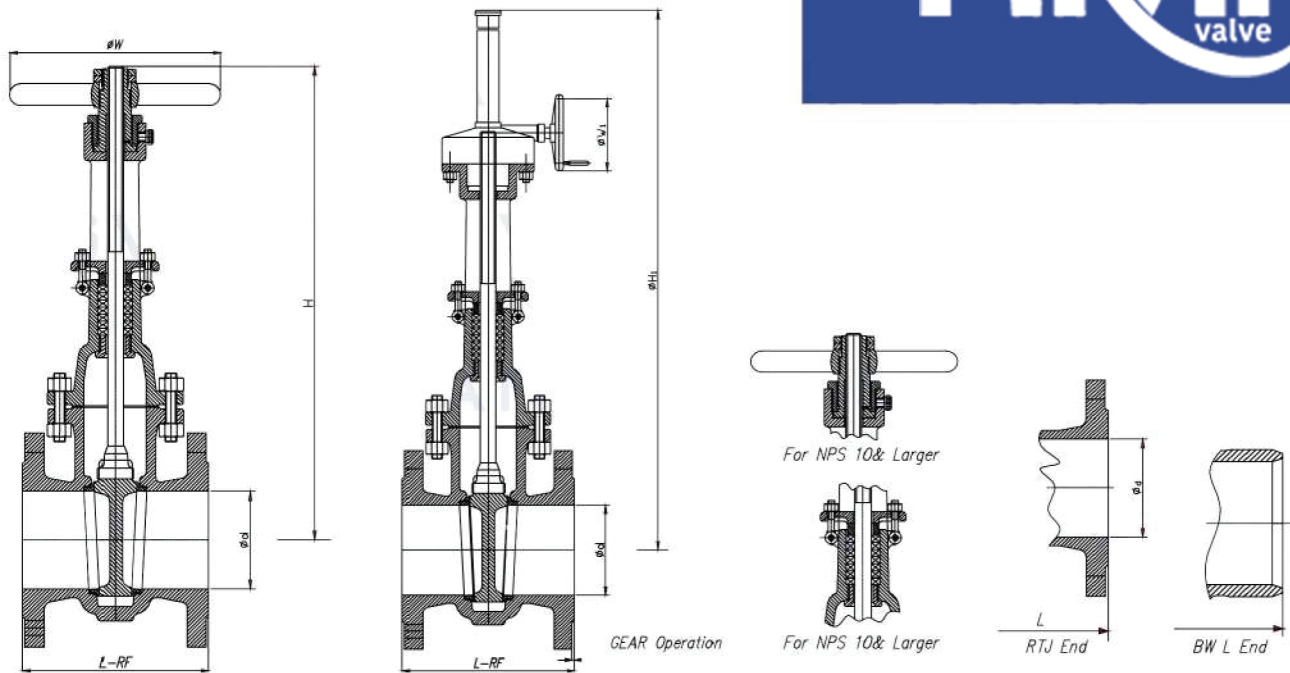
|                              |                          |
|------------------------------|--------------------------|
| Design and Manufacture       | API 600, API6D           |
| Inspection and Test          | API598, API6D, API600    |
| End Flange dimension         | ASME B16.5               |
| End Flange dimension         | ASME B16.47 A, MSS SP-44 |
| End Flange dimension         | ASME B16.47 B, API605    |
| BW end dimension             | ASME B16.25              |
| Face to face                 | ASME B16.10              |
| Pressure-temperature ratings | ASME B16.34              |

## Standard Material specifications

| Parts name |              | Carbon steel to ASTM                                                      |          | Alloy Steel to ASTM |          |          |          | Stainless Steel to ASTM |           |            |            |
|------------|--------------|---------------------------------------------------------------------------|----------|---------------------|----------|----------|----------|-------------------------|-----------|------------|------------|
| 1          | Body         | A216 WCB                                                                  | A352 LCB | A217 WCI            | A217 WC6 | A217 WC9 | A217 C5  | A351 CF8                | A351 CF8M | A351 CF3   | A351 CF3M  |
| 8          | Bonnet       | A216 WCB                                                                  | A352 LCB | A217 WCI            | A217 WC6 | A217 WC9 | A217 C5  | A351 CF8                | A351 CF8M | A351 CF3   | A351 CF3M  |
| 6          | Bolts        | A193 B7                                                                   | A320 L7  | A193 B7             | A193 B16 | A193 B16 | A193 B16 | A193 B8                 | A193 B8   | A193 B8    | A193 B8    |
| 5          | Nuts         | A194 2H                                                                   | A194 4   | A194 2H             | A194 4   | A194 4   | A194 4   | A194 8                  | A194 8    | A194 8     | A194 8     |
| 11         | Gland        | A182 F6a                                                                  | A182 F6a | A182 F6a            | A182 F6a | A182 F6a | A182 F6a | A182 F304               | A182 F316 | A182 F304L | A182 F316L |
| 12         | Gland Flange | A216 WCB                                                                  | A352 LCB | A217 WCI            | A217 WC6 | A217 WC9 | A217 C5  | A351 CF8                | A351 CF8M | A351 CF3   | A351 CF3M  |
| 2          | Disc         | A216 WCB                                                                  | A352 LCB | A217 WCI            | A217 WC6 | A217 WC9 | A217 C5  | A351 CF8                | A351 CF8M | A351 CF3   | A351 CF3M  |
| 7          | Gasket       | SS Spiral Wound W/graphite, or SS Spiral Wound W/PTFE, or Reinforced PTFE |          |                     |          |          |          |                         |           |            |            |
| 10         | Packing      | Braided graphite, or Die-formed graphite ring or PTFE                     |          |                     |          |          |          |                         |           |            |            |
| 13         | Stem Nut     | Copper alloy or A439 D2                                                   |          |                     |          |          |          |                         |           |            |            |
| 14         | Hand Wheel   | Ductile iron or Carbon steel                                              |          |                     |          |          |          |                         |           |            |            |

Noted: The chart above only lists out some common composition of steel gate valve parts, we may provide other different parts material composition according to the customer's request or the actual valve working condition.

# API GATE VALVE



## Class 150 & JIS 10K Gate Valve

| Class      | Size |      | Dimensions (mm) |     |      |     |      |      |     |      | Weight (Kg) |      |
|------------|------|------|-----------------|-----|------|-----|------|------|-----|------|-------------|------|
|            | NPS  | DN   | L               |     |      | d   | H    | H1   | W   | W1   | H.W         | G.O  |
|            |      |      | RF              | RTJ | BW   |     |      |      |     |      |             |      |
| 150<br>10K | ½    | 15   | 108             | 119 | 108  | 14  | 218  |      | 120 |      | 4           |      |
|            | ¾    | 20   | 117             | 130 | 117  | 19  | 190  |      | 120 |      | 5           |      |
|            | 1    | 25   | 127             | 140 | 127  | 25  | 256  |      | 140 |      | 7           |      |
|            | 1 ¼  | 32   | 140             | 153 | 140  | 31  | 268  |      | 180 |      | 10          |      |
|            | 1 ½  | 40   | 165             | 178 | 165  | 38  | 326  |      | 200 |      | 15          |      |
|            | 2    | 50   | 178             | 191 | 216  | 30  | 340  |      | 200 |      | 20          |      |
|            | 2 ½  | 65   | 191             | 203 | 241  | 63  | 365  |      | 200 |      | 23          |      |
|            | 3    | 80   | 203             | 216 | 283  | 76  | 410  |      | 250 |      | 36          |      |
|            | 4    | 100  | 229             | 241 | 305  | 100 | 485  |      | 280 |      | 54          |      |
|            | 5    | 125  | 254             | 267 | 381  | 127 | 520  |      | 280 |      | 62          |      |
|            | 6    | 150  | 267             | 279 | 403  | 150 | 595  | 795  | 300 | 310  | 82          | 104  |
|            | 8    | 200  | 292             | 305 | 419  | 200 | 755  | 1015 | 360 | 310  | 136         | 150  |
|            | 10   | 250  | 330             | 343 | 457  | 250 | 895  | 1210 | 400 | 310  | 196         | 215  |
|            | 12   | 300  | 356             | 368 | 502  | 300 | 1040 | 1405 | 450 | 460  | 299         | 315  |
|            | 14   | 350  | 381             | 394 | 572  | 336 | 1145 | 1535 | 500 | 460  | 381         | 451  |
|            | 16   | 400  | 406             | 419 | 610  | 387 | 1333 | 1780 | 500 | 460  | 536         | 597  |
|            | 18   | 450  | 432             | 445 | 660  | 438 | 1420 | 1900 | 600 | 460  | 608         | 651  |
|            | 20   | 500  | 457             | 470 | 711  | 488 | 1635 | 2220 | 700 | 530  | 827         | 863  |
|            | 24   | 600  | 508             | 521 | 813  | 590 | 1862 | 2557 | 800 | 530  | 1202        | 1357 |
|            | 26   | 650  | 559             |     | 864  | 633 |      | 2680 |     | 530  | 1281        | 1550 |
|            | 28   | 700  | 610             |     | 914  | 684 |      | 2890 |     | 530  |             | 1880 |
|            | 30   | 750  | 610             |     | 914  | 735 |      | 3110 |     | 600  |             | 2300 |
|            | 32   | 800  | 711             |     | 965  | 779 |      | 3280 |     | 600  |             | 2550 |
|            | 34   | 850  | 711             |     | 1016 | 830 |      | 3500 |     | 600  |             | 2950 |
|            | 36   | 900  | 711             |     | 1016 | 874 |      | 3640 |     | 600  |             | 3390 |
|            | 40   | 1000 | 812.8           |     | 1067 |     |      | 4200 |     | 1000 |             | 4042 |
|            | 48   | 1200 | 1067            |     | 1168 |     |      | 5020 |     | 1000 |             | 5520 |

Noted: We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.