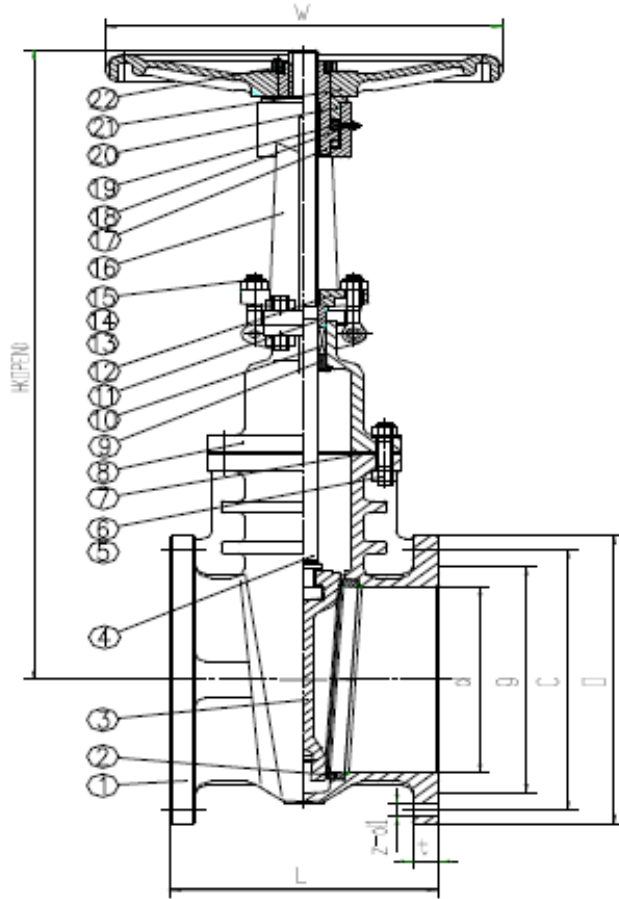


TECHNICAL REQUIREMENTS

1. DESIGN AND MANUFACTURE: API 600 or API 6D
2. FACE TO FACE: ASME / ANSI B16.10
3. END FLANGE DIMENSIONS: ASME / ANSI B16.5
4. PRESSURE-TEMP: ASME / ANSI B16.34
5. PRESSURE TEST: API 598



| NO | PART NAME | MATERIAL |
|----|------------------|------------------|
| 1 | BODY | A351 CF8M |
| 2 | SEAT RING | A182 F316 + STL |
| 3 | WEDGE | A351 CF8M |
| 4 | STEM | A182 F316 |
| 5 | BONNET BOLT | A193 B8 |
| 6 | BONNET NUT | A194 8 |
| 7 | GASKET | SS316 + GRAPHITE |
| 8 | BONNET | A351 CF8M |
| 9 | BACKSEAT BUSHING | A182 F316 |
| 10 | STEM PACKING | GRAPHITE |
| 11 | GLAND | A182 F316 |
| 12 | GLAND FLANGE | A351 CF8M |
| 13 | GLAND NUT | A194 8 |
| 14 | PIN | 45 |
| 15 | GLAND EYEBOLT | A193 B8 |
| 16 | YOKE | A351 CF8M |
| 17 | STEM NUT | ZCuAl10Fe3 |
| 18 | OIL CUP | |
| 19 | BEARING | |
| 20 | RETAINING NUT | AISI 1035 |
| 21 | HAND WHEEL | DUCTILE IRON |
| 22 | H.W. LOCK NUT | AISI 1035 |

| SIZES | GENERAL DIMENSIONS | | | | FLANGE DIMENSIONS | | | | |
|-----------------|--------------------|------|-----|-----|-------------------|-------|-----|----|---------|
| | d | H | W | L | O | C | g | t | Z-d1 |
| 250NB CLASS 150 | 254 | 1186 | 400 | 330 | 406 | 362 | 324 | 31 | 12 - 25 |
| 300NB CLASS 150 | 305 | 1415 | 400 | 356 | 483 | 432 | 381 | 32 | 12 - 25 |
| 350NB CLASS 150 | 337 | 1583 | 450 | 381 | 533 | 476 | 413 | 35 | 12 - 29 |
| 400NB CLASS 150 | 387 | 1771 | 500 | 406 | 597 | 540 | 470 | 37 | 16 - 29 |
| 450NB CLASS 150 | 438 | 1915 | 550 | 432 | 635 | 578 | 533 | 40 | 16 - 32 |
| 500NB CLASS 150 | 489 | 2300 | 600 | 457 | 699 | 635 | 584 | 43 | 20 - 32 |
| 550NB CLASS 150 | 540 | 2500 | 650 | 483 | 750 | 692.1 | 641 | 46 | 20 - 35 |
| 600NB CLASS 150 | 591 | 2700 | 650 | 508 | 813 | 749.5 | 692 | 48 | 20 - 35 |

| | | |
|---|--------------------|-----------------|
| REV A | JOHN VALVES | |
| DATE | MAY 2005 | 7010A/SS |
| SCALE | TO FIT | |
| 316SS GATE VALVE OS&Y CLASS 150 RF | | |