



| NPS    | L   | H   | $\phi W$ | $\phi d$ | ANSI     |      |
|--------|-----|-----|----------|----------|----------|------|
|        |     |     |          |          | $\phi A$ | B    |
| 1/2"   | 111 | 191 | 125      | 10.5     |          | 12.7 |
| 3/4"   | 111 | 192 | 125      | 13.5     | 27.1     | 12.7 |
| 1"     | 120 | 219 | 160      | 18       | 33.8     | 12.7 |
| 1-1/4" | 120 | 243 | 160      | 24       |          | 12.7 |
| 1-1/2" | 140 | 296 | 180      | 29       | 48.7     | 12.7 |
| 2"     | 178 | 316 | 200      | 36.5     |          | 12.7 |

Performance Standard

| Test Item      | P (MPa) | T (S) | Test Item      | P (MPa)             | T (S) |
|----------------|---------|-------|----------------|---------------------|-------|
| Shell Test     | 37.5    | 15    | Back Seal Test | 27.5                | 15    |
| Seal Test      | 27.5    | 15    | Air Test       | 0.6                 | 15    |
| Suitable Temp. | 345     | C     | Suitable Media | Water, Gas, Oil etc |       |

BILL OF MATERIALS

| NO. | PART NAME           | MATERIALS         |
|-----|---------------------|-------------------|
| 1   | BODY                | A105N             |
| 2   | SEAT RING           | 316 + HF          |
| 3   | WEDGE DISC          | 316 + HF          |
| 4   | STEM                | 316               |
| 5   | SPIRAL WOUND GASKET | 304 + GRAPHITE    |
| 6   | BONNET              | A105N             |
| 7   | BOLT                | A320 L7           |
| 8   | PIN                 | 304               |
| 9   | GLAND               | 420               |
| 10  | EYE BOLT            | A320 L7           |
| 11  | GLAND FLANGE        | A105N             |
| 12  | NUT                 | A194 7            |
| 13  | STEM NUT            | 410               |
| 14  | NUT                 | A194 2H           |
| 15  | NAME PLATE          | AL                |
| 16  | HANDWHEEL           | A197              |
| 17  | WASHER              | 410               |
| 18  | PACKING             | FLEXIBLE GRAPHITE |
| 19  |                     |                   |
| 20  |                     |                   |

NOTES:

1. Design & manufacture conform with API 602
2. Test & inspect conform with API 598
3. Face to face dimension conforms with manufacture's
4. SW ends conform with ANSI B16.11.
5. Screw dimension ACC. to ASME B16.20.1

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TITLE: FORGE STEEL GATE VALVE  
 SW\*NPT CONNECT / HANDWHEEL OPERATION

| REV #           | DATE | DESCRIPTION | APPROVED |
|-----------------|------|-------------|----------|
|                 |      |             |          |
| REVISION RECORD |      |             |          |

|                   |                     |
|-------------------|---------------------|
| MATERIAL:         | UNITS: MM           |
| CLASS:RB 1500 Lb  | SCALE: N/A          |
| DATE:08/28/06     | FIG. No.:F150SW&T-2 |
| SIZE:1/2" - 2"    | DWG No.:38GA060221  |
| DRAWN BY:         |                     |
| CHK'D & APR'D BY: |                     |