

SERIES 450 CLASS 1500 (3600PSI) FORGED STEEL BALL VALVE

FEATURES:

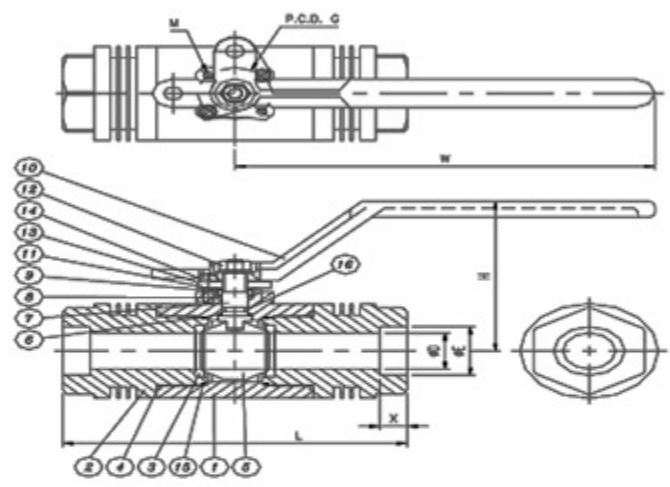
- Forged steel body construction secures Class 1500/3600 psi working pressure rating.
- LF2 valve body & end caps for low-temperature applications.
- Special design of extended socket weld end facilitates heat dissipation during welding. No prior disassembly of valve is required therefore welding installation process is shortened.
- Use of body O-ring and body joint gasket double secures NO LEAKAGE.
- Live-loaded packing gland for self-adjustment of stem packing compression.
- Rugged lockable lever handles for safety and long service life.
- Body O-rings are placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Gland bolts allow for easy packing adjustment without handle removal.
- Pressure equalizing seats & Bottom-loaded blow-out proof stem.
- Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling.
- Full compliance with ASME/ANSI B16.34 & EN12516-1.
- Socket weld ends complied with ANSI B16.11 & EN 12760.
- Tested according to API 598.



**SOCKET
 WELD
 ENDS**

MATERIALS LIST:

| NO. | PARTS | C-333S-LF2 | C-333S-A105 |
|-----|-------------------|--------------------|--------------------|
| 1 | BODY | ASTM A350-LF2 | ASTM A105 |
| 2 | END CAP | ASTM A350-LF2 | ASTM A105 |
| 3 | SEAT | PEEK | PEEK |
| 4 | GASKET | PTFE | PTFE |
| 5 | BALL | ASTM A351-CF8M/316 | ASTM A351-CF8M/316 |
| 6 | THRUST WASHER | PTFE | PTFE |
| 7 | STEM | ASTM A276-316 | ASTM A276-316 |
| 8 | STEM PACKING | PTFE | PTFE |
| 9 | GLAND | AISI 304 | AISI 304 |
| 10 | HANDLE | CARBON STEEL | CARBON STEEL |
| 11 | BELLEVILLE WASHER | AISI 301 | AISI 301 |
| 12 | HANDLE NUT | CARBON STEEL | CARBON STEEL |
| 13 | GLAND FLANGE | CARBON STEEL | CARBON STEEL |
| 14 | GLAND BOLT | AISI 304 | AISI 304 |
| 15 | BODY O-RING | VITON | VITON |
| 16 | STEM O-RING | VITON | VITON |



OPTIONS:

- 17-4 PH (ASTM A564 Type 630) stem.
- A: Anti-static device.
- F: Fire-safe per API 607, including Graphite gasket, Graphite stem packing, & post-fire metal-to-metal seal.
- PEEK thrust washer.
- TFM 4215 seats (Max. pressure: 3000 PSI, see Press.-Temp. Ratings).
- HSN (HNBR) stem O-ring & body O-ring, PTFE body O-ring.
- Carbon 25% filled PTFE thrust washer, stem packing, and gasket.

DIMENSIONS:

| SIZE | in | DN | in | ØD | in | ØE | in | L | in | H | in | W | in | X | in | ØG | M |
|--------|----|------|------|------|------|------|-----|------|-------|------|-----|------|------|------|----|----|---|
| 1/4" | 8 | 0.37 | 9.5 | 0.56 | 14.2 | 4.61 | 117 | 3.15 | 80.0 | 6.30 | 160 | 0.39 | 10 | 1.42 | 36 | M5 | |
| 3/8" | 10 | 0.37 | 9.5 | 0.69 | 17.6 | 4.61 | 117 | 3.15 | 80.0 | 6.30 | 160 | 0.39 | 10 | 1.42 | 36 | M5 | |
| 1/2" | 15 | 0.49 | 12.5 | 0.86 | 21.8 | 4.61 | 117 | 3.15 | 80.0 | 6.30 | 160 | 0.39 | 10 | 1.42 | 36 | M5 | |
| 3/4" | 20 | 0.79 | 20 | 1.07 | 27.2 | 5.98 | 152 | 3.90 | 99.0 | 7.87 | 200 | 0.51 | 13 | 1.42 | 36 | M5 | |
| 1" | 25 | 0.98 | 25 | 1.33 | 33.9 | 6.46 | 164 | 4.09 | 104 | 7.87 | 200 | 0.51 | 13 | 1.42 | 36 | M5 | |
| 1-1/2" | 40 | 1.50 | 38 | 1.92 | 48.8 | 7.87 | 200 | 5.03 | 127.7 | 9.84 | 250 | 0.51 | 13 | 1.97 | 50 | M6 | |
| 2" | 50 | 1.50 | 38 | 2.41 | 61.2 | 8.07 | 205 | 5.03 | 127.7 | 9.84 | 250 | 0.64 | 16.2 | 1.97 | 50 | M6 | |

