



## Ball Valves

# Top Entry

### Trunnion Mounted

- Design: 1 Piece Body with Bolted Bonnet
- Size/Class:
  - ANSI/ASME classes from 150 to 4500
  - Sizes from 1/2" to 56" according to API 6D
  - API classes from 3000 to 15000 - Sizes up to 11" according to API 6A
  - Special bore diameters and/or design pressures available upon request
- Trim Construction: Direct Trunnion with Floating Seats

- Ball/Seat Sealing: Spring Energized Seats, Soft seal with Thermoplastic Seat Inserts or Metal to Metal seal with Hardfaced Ball and Seats, Single or Double Block & Bleed configuration in closed or open/closed position
- Over-Pressure Relief: Self-Relieving or Double Piston Effect Seats with Relief Valve
- End connections: RF, RTJ, BW, HUB or Norsok L-005 compact Flanges
- Body/Bonnet Gasket: Soft with O-Ring or Lip Seal Design, Metal with Ring Joint
- Seals: Elastomer O-Rings, PTFE V-Pack or PTFE/Elgiloy Spring Energized Lip Seals
- Fire Safe Gaskets: Graphite
- Operation: Lever or Gearbox, Hydraulic or Pneumatic Actuator, Electric Motor



- Application Services: Upstream/Downstream, High Pressure, High Temperature, Cryogenic, Subsea, Emergency Shutdown, HIPPS.