A Guide To
Manual And Automated
Ball Valves

Flo-Tite Offers A Complete Line Of High Quality Engineered Ball Valves For Your Most Demanding Applications

Website: www.flotite.com
Flo-Tite offers a complete range of Flanged End Ball Valves in both Floating and Trunnion Type Designs. Available in both carbon, stainless steel, and many other special materials.

**Design Features**
- ISO Type Mounting Pad
- Safety Locking Handle
- Anti-Static Grounding Device
- ANSI Class, 150, 300, 600
- Special Metal Seats Meeting Class V & VI
- Cavity Fillers Size 1/2 Thru 12 inch
- Complete Size Range 1/2 Thru 12 inch
- V-Ball Control Valves
- Fire Safe-API 607 And NACE Requirements

**Flo-Tite TM Series**
- Designed and Fabricated for Pipeline Applications
- Offering both forged 3pc and cast 1 & 2 pc body design

**Design Features**
- Full Compliance with API-6D
- ISO 9001, CE & NACE
- Grease Sealant Fitting Standard
- Fully Welded Bodies
- Size range 1” - 42”
- ANSI Class150, 300, 600, 900, 1500, 2500
- High Temperature Metal Seated
- Fire Safe-API 607
- NACE Requirements
- Double Block & Bleed
- Piggable Service
- Control Ball Valve & Half Ball

Tech Bulletin page 80, 81, 82, 83
**Tri-Star Series**
- Flo-Tite Economical 3PC Valve
- Available with NPT or Socket Weld Ends
- 1500 WOG
- RPTFE Seals
- Cap Screw Bolting
- ISO 5211 Mounting
- Safety Locking Handle
- CE Compliance

**DM300-SS Series**
- Direct Mount Series
- Economical Compact Design
- 1000 WOG
- 316SS, RPTFE seats & Seals, low torque design
- ISO 5211 Direct Mount

**Multi-Choice Series**
This series is our most versatile design. Series 200/300 ball valves are offered in Threaded, Socket Weld, Butt Weld, Flanged End, and extended Weld Ends. The Valve center body is drilled and tapped for cap bolting to assure exact alignment.

**Design Features**
- 1500 WOG/150 WSP
- Live Loaded Stem
- V-Ring Stem Packing
- Anti-Static Grounding Device
- Size Range 1/4 Thru 12 inch
- I-SO-Mount Automation Pad
- Safety Locking Handle
- Wide Range of Seating Materials
- V-Ball Control Valves
- Cavity Fillers
- Carbon, Stainless Steel And Many Other Special Materials
- Secondary Media Containment
- Flush Bottom Tank

**Tri-Pro Series**
High pressure 3 Piece Series built for demanding applications such as petrochemical, power, oil and gas, pulp and paper, and many other industrial process applications. Both Full & Reduced Port Models

**Design Features**
- 1/4” thru 4” 2250 PSI
- 1/4” thru 1” 3000 PSI (Reduce Bore)
- Fire safe designed to API 607-4
- ANSI B16.34
- Protected Seat design
- Captive Seats & Body Seals
- Weld-in Place Socket & Butt Weld
- Flanged End Class 150, 300, 600 & 900
- Metal Seats - both Class V & VI
Multi-Port 3 & 4 Way Ball Valves

Flo-Tite offers a wide selection of multi-port ball valves designed to simplify piping systems, eliminating the need for 2 or more standard valves. The Valve has either an one or 2 pc ball/stem with a trunnion type Ball Support, T, L, or LL Flow Plans. I-SO-Mount Actuator mounting pad is standard.

### Multi-Port Series

- **Model**
  - MPF15
  - MPF30
  - MPT30
  - MPC15
  - MPF154
- **Type**
  - 150 LB. Flanged End
  - 300 LB. Flanged End
  - Threaded End
  - Tri-Clamp Ends
  - 4-Way
- **Size Range**
  - 3/4 thru 12”

### MPT-100 Series

- Stainless Steel
- 3 way diverting or mixing
- Standard port design
- Threaded ends / Tri-Clamp
- Working pressure 1000 WOG
- Optional Brass T + L Ports model # 355/365

### Tri-Pro Bottom Flow Series

- 3-Way Diverter Design
- 1500 WOG Fire Safe Type
- Threaded / SW / BW / Flanged

### Ball Porting

- Multiple Flow Plans

### Bottom Entry Series

- 3-Way Diverter Design
- Ideal Replacement for Plug Valves
- Class 150, Size 2”, 3”, 4”, 6”

### Many Different Flow Patterns Are Available

Tech Bulletin pages:
- Model MPF15: page 90, 91, 92, 93
- Model MPT 100: page 100, 101
- Model 3W-HPF: page 98, 99
- Model MPF155: page 96, 97

www.flotite.com
Unique Design Ball Valves

Cryogenic Design Ball Valves
- Flo-Tite offers a complete line of cryogenic ball valves.
- Available cryo bonnet tall stems
- Reaching temp. down to -400°F
- One-PC, high strength stems
- Flanged end 150/300/600
- NPT / SW / BW / 3PC Ball Valves

CRYO-SERIES

Tech Bulletin page 138, 139

Flush Bottom Tank Valves
Valve tankpad is welded flush to the tank bottom for unrestricted drainage of tank media. Available with threaded, SW / BW / flanged end 150/300

Model TK300
Tech Bulletin page 142, 143

Safety Exhaust 3PC Valve
Offers downstream air pressure “blow-down” design valve with complete service-ability without disturbing the piping system.

Multi Choice Sanitary Designs
3PC sanitary ball valves with true tube bore clean-in-place, purge ports.
20-25 RA standard.
Electropolish, solution clean & bagged, optional.
All wetted parts SS316L.
Cavity fillers available.
In-Line orbital welding.

Model 350
Model 370
Tech Bulletin page 55, 56
**Threaded End Connections**

**Fusion Series**
- The Fusion series seal-welded high pressure valves incorporate safety through the full penetration. All welded body assures that the 2pc body can never be separated.
- Anti-Static, fire safe, API 608, Steam seals, Locking Handle.

**Flo Tron - II Series**
- Rugged construction - Cast body
  This heavy duty valve is built for hydraulic and petrochemical applications.
- S3000 - 3000 WOG / S6000 - 6000 WOG
- Fire Safe Designed to API 607-4

**Econoflo-Series**
- T80 ball valves offer an economical solution for low cost full port stainless steel 316SS
  - 1000 WOG Size 1/4” - 3”
- T12SS/T12CS
  - Double reduced bore fire safe certified economical solution
  - For higher pressure application
  - 316SS and Carbon Steel
  - 1-pc body design

**Forged Brass - Threaded & Solder Ends**
- T51BZ ball valves are ideal utility valve, for low pressure applications.
  - Size 1/4”-4”
  - 600 WOG - 150 WSP
  - FM / UL / SR Certificates

Tech Bulletin pages 23A/B, 29, 16/17, 16/17, 23A/B, 28, 29, 31
Kompact Series
- Full Port - Size - 2” – 6”
- Full Flanged Wafer
- Compact Design
- Cavity Filled
- Steam Jacket
- V-Port Control

Tech Bulletin page 111, 112

V - Series
- Modulating V-Port Control
- Characterized Ball
- 1/4” thru 12”
- 15°-30°-60°-90°
- Custom Designs

Tech Bulletin page 120 -123

DM - Series
- Direct Mount Valves
- Tailored for simple automation with
- ISO5211 actuator mounting pad
- 2pc/3pc/Flanged End

DM51/52 DM80 DM300

Manual Gear Operators
- ISO Direct Mount
- Worm Type
- Torque ranged
- 1327in-lb to 35400 in-lb

Max-Gear Series

USA Manufactured Ball Valves

USA Made Forged Bar Ball Valves

API608/API6D Compliant
- Custom manufactured to your exact specifications
- Encapsulated soft or metal seating
- Special materials & end seating
- Size 1/4” thru 6”
- Pressure Classes150/300/600/900/1500/2500

Model 610, 620
Tech Bulletin page 52A/B
Flo-Tite, Inc. offers a complete package of pneumatic hydraulic & electric actuators. All types of controls & accessories for a vast number of special automated applications

**Air-Con Series**
- Designed for quarter-turn ball, butterfly & plug valves as well as damper applications.
- Incorporating the latest technology in actuator design.
  - Hard anodized aluminum body
  - Namur interface & ISO5211 Mounting
  - 5° - travel stops
  - Torque range up to 1,565,200 in-lbs

**Limit Switch Series ALX**
- Compact-Competitive Design

**Limit Switch Moniteur Series**
- All Specials

**Solenoid Valve**
- Direct Design

**Easy-Link ISO Mounting Hardware**

**Electric Actuators**
- All Types & Designs

**Automation Components**
- Positioner-4-20 or 3-15
- Filler Regulator/Air Set
- Manual Overrides
- Speed Controls
- Electric Fail Safe

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