

## Ball Valve Selection Guide



## 3 Piece Valves



### Triad Series

Models FP/SP-2000/3000  
3 Piece Bodies  
Stainless Steel & Carbon Steel  
Full Port / Standard Port  
Valve Sizes: 1/4" through 2 1/2"  
Pressure Ratings:  
Model FP: 2200 psi WOG  
Model SP: 2200 psi WOG  
FP & SP: up to 425 psi WSP

Triad Series ball valves are fire safe to API 607 4th Edition and are designed in accordance with ANSI B16.34 specifications. Features include live loaded Smart Stem seals, a redundant body seal design, anti-static protection, locking safety handles and ISO 5211 Secure Mount actuator top flange. Hex head cap screws join end connections to the tapped center section. Threaded, weld end, extended weld end and custom end connections are offered.



### Series 7000 & 8000

Models 7000/8000  
3 Piece Bodies  
Stainless Steel & Carbon Steel  
Full Port  
Valve Sizes: 1/4" through 12"  
Pressure Ratings:  
1/4"-4": 1000 psi WOG  
6"-12": 400 psi WOG

Wide Selection of End Connections

Series 7000/8000 ball valves offer threaded, socket weld, butt weld, ANSI flanged, quick clamp, and extended weld end connections. Features include live loaded Smart Stem seals, anti-static protection, ease of installation and maintenance, locking safety handles and ISO 5211 (1/4"-2") Secure Mount actuator top flange. These valves are also available with cavity filler seats for special service requirements.



### Series 5000

Model 5000  
3 Piece Bodies  
Stainless Steel  
Full Port  
Valve Sizes: 1/4" through 4"  
Pressure Ratings:  
1/4"-2": 1000 psi WOG  
2 1/2"-4": 800 psi WOG

Economical 3 Piece Ball Valve

Series 5000 ball valves offer the benefits of a 3 Piece body design at an economical price. Features include a swing out center section for ease of installation/maintenance, adjustable stem packing, heavy duty internal entry stems, stainless steel safety locking handles and ISO 5211 Secure Mount actuator top flange. Threaded and socket weld end connections are offered.



### Micro Pure Series

Models S7500/S7700  
3 Piece Bodies  
Stainless Steel  
Tube Bore Port: 1/2"-2"  
Valve Sizes: 1/2" through 4"  
Pressure Rating:  
1/2"-4": 1000 psi WOG

Specifically Designed For High Purity Applications

Micro Pure Series ball valves have a tube bore port. The ball and end connections have the same I.D. as the tube piping system. Valves come standard with 30-35 Ra surface finishes and all are solution cleaned and bagged. Features include live loaded Smart Stem seals, ease of installation/maintenance, locking safety handles and ISO 5211 (1/2"-2") Secure Mount actuator top flange. Quick clamp and extended weld tube end connections are offered.



## Tank Bottom Series

**Models TK7000/TK8000/TKF15**  
**2 or 3 Piece Bodies**  
**Stainless Steel & Carbon Steel**  
**Full Port**  
**Valve Sizes: 1" through 10"**  
**Pressure Ratings:**  
**TK7000/TK8000: 1000 WOG**  
**TKF15: ANSI Class 150**

Flush Tank Bottom Design

Tank Series ball valves are welded flush to the tank bottom for unrestricted drainage of tank media. Features include live loaded Smart Stem seals, anti-static protection, interchangeable parts, locking safety handles and ISO 5211 (1"-2") Secure Mount actuator top flange. Valves are available with threaded, socket weld, butt weld, ANSI 150 flanged, and quick clamp end connections opposite the flush bottom flange end.

## Flanged Valves



### Series F15 & F30

**Models F15/F30**  
**2 Piece Bodies**  
**Stainless Steel & Carbon Steel**  
**Full Port**  
**Valve Sizes: 1/2" through 12"**  
**Pressure Ratings:**  
**Model F15: ANSI Class 150**  
**Model F30: ANSI Class 300**

Non-Fire Safe or Fire Safe

Series F15/F30 ball valves are available as non-fire safe or fire safe to API 607 4th Edition and are designed in accordance with ANSI B16.34 specifications. ANSI Class 150 & 300 Flanges are standard. Features include live loaded Smart Stem seals, anti-static protection, locking safety handles and ISO 5211 (1/2"-2") Secure Mount actuator top flange. Larger sized valves feature trunnion-type ball support. Special body materials are also offered.



### Series RF15

**Model RF15**  
**1 Piece Bodies**  
**Stainless Steel & Carbon Steel**  
**Standard Port**  
**Valve Sizes: 2" through 12"**  
**Pressure Rating:**  
**ANSI Class 150**

Economical  
 Non-Fire Safe or Fire Safe

Series RF15 ball valves are available as non-fire safe or fire safe to API 607 4th Edition and are designed in accordance with ANSI B16.34 specifications. These one piece Class 150 end entry flanged valves are an excellent cost effective choice. Features include live loaded Smart Stem seals, anti-static protection, locking safety handles and ISO 5211 (2") Secure Mount actuator top flange. Special body materials are offered upon request.



### Trunnion Series

**Models A105/LF2**  
**2 Piece Bodies**  
**Stainless Steel & Carbon Steel**  
**Full Port / Standard Port**  
**Valve Sizes: 2" through 24"**  
**Pressure Ratings:**  
**ANSI Class 150, 300, 600,**  
**900 & 1500**

Trunnion Valves for Heavy  
 Duty Service

Trunnion Series ball valves feature trunnion design ball support. Offering a wide range of pressure ratings and both full and standard port models, Trunnion Series valves are ideal for heavy duty applications such as oil and gas production, power and waste water industries. Fire safe to API 607 4th Edition and designed in accordance with ANSI B16.34 specifications. The valve seats are spring loaded to maintain bubble tight shut off.



# Multi-Port Valves



## Multi-Port 130 Series

Models MPT130/MPC130  
3-Way  
Standard Port  
Stainless Steel  
Valve Sizes: 1/4" through 2"  
Pressure Ratings:  
1/4"-1" : 1000 psi WOG  
1 1/4"-2" : 800 psi WOG

Compact Design

Multi-Port 130 Series ball valves offer a wide range of flow patterns with 90° and 180° T & L port 3-way balls. Features include a 4th seat to prevent leakage and maintain proper ball alignment, live loaded stem seal, locking handles and ISO 5211 Secure Mount actuator top flange with direct mount capability. Interchangeable threaded and quick clamp end connections are offered.



## Multi-Port 230/240 Series

Models MPT230/MPC230 3-Way  
MPT240/MPC240 4-Way  
Full Port  
Stainless Steel & Carbon Steel  
Valve Sizes: 1/4" through 4"  
Pressure Ratings:  
1/4"-1" : 1000 psi WOG  
1 1/4"-4" : 800 psi WOG

Block Style, Bolted Ends to Body Design

Multi-Port 230/240 Series ball valves offer a compact, low-profile body design. Flow patterns include 90° and 180° T & L port 3-way balls, and 90°, 180° and 270° 4-way balls. Features include a 4th seat to prevent leakage and maintain proper ball alignment, live loaded stem seal, locking handles and ISO 5211 Secure Mount actuator top flange with direct mount capability. Interchangeable threaded and quick clamp end connections are offered. Cavity filler seats are optional.



## Multi-Port Flanged Series

Models MPF150/MPF300  
3 & 4 Way Full Port  
Stainless Steel & Carbon Steel  
Valve Sizes:  
MPF150: 1/2" through 12"  
MPF300: 1/2" through 12"  
Pressure Ratings:  
MPF150: ANSI Class 150  
MPF300: ANSI Class 300

Block Style, Bolted Ends to Body Design

Multi-Port Flanged Series ball valves are Side Ported 3 & 4-way ball valves offering excellent versatility for mixing and diverting applications. Flow patterns include 90° and 180° T & L port 3-way balls, and 90°, 180° and 270° 4-way balls. Features include a 4th seat to prevent leakage and maintain proper ball alignment, live loaded stem seal, locking handles and ISO 5211 Secure Mount actuator top flange with direct mount capability.

# Speciality Products



## Control Ball Valves

Valve Sizes: 1/2" through 12"  
Cut and characterized balls for on-off or modulating applications. Standard with 15°, 30°, 60° and 90° V-ports. Slotted Ports and Custom Ports are also available.



## Media Containment

Valve Sizes: 1/2" through 10"  
Media Containment Units are designed to prevent costly downtime and provide double stem sealing. Button-head check valve for injection of a sealing agent can be added.



## Instrumentation Series

**Models** HP/HX  
**3 Piece Bodies** Standard Port  
**Stainless Steel**  
**Valve Sizes:** 1/4" through 1"  
**Pressure Ratings:**  
    **Model HP:** 6000 psi WOG  
    **Model HX:** 10,000 psi WOG  
For High Pressure Applications

Instrumentation Series ball valves offer rugged reliability for high pressure and instrumentation applications. Features include low operating torque, choice of lever or pointer handles and pinned end connections for safety. NPT threaded end connections are standard, female compression fitting ends upon request. Other body materials available upon request.



## 3-Way Instrumentation Series

**Model** 3HP  
**3-Way** Standard Port  
**Stainless Steel**  
**Valve Sizes:** 1/4" through 1"  
**Pressure Rating:**  
    1/4"-1": 6000 psi WOG  
For High Pressure Applications

A 3-way version of the Instrumentation Series ball valves offering high pressure performance in a 3-way valve. The model 3HP has the same features and end connections as the model HP. All Instrumentation Series valves are available in optional body materials such as Duplex SS, Hastelloy, Monel and Titanium.



## Petro Series

**Models** S3000/SW3000  
**2 Piece Bodies** Full Port  
**Stainless Steel & Carbon Steel**  
**Valve Sizes:** 1/4" through 3"  
**Pressure Rating:**  
    1/4"-3": 3000 psi WOG

Petro Series ball valves have been designed for high pressure applications. Features include live loaded stem seals, replaceable seats and seals, and nickel plating on carbon steel bodies. Other body materials are available upon request. Threaded and extended socket weld end connections.



## Series S20

**Model** S20  
**1 Piece Bodies** Standard Port  
**Stainless Steel**  
**Valve Sizes:** 1/2" through 2"  
**Pressure Ratings:**  
    1/2"-2": 2000 psi WOG  
    150 psi WSP

Series S20 ball valves can be furnished as fire safe to API 607 4th Edition standards. One piece body design supplies maximum structural strength while reducing leak paths. Features include live loaded Smart Stem seals, actuator mounting pad, safety latch handles, and optional oval handles. Threaded end connections.



## Series S85

**Model** S85  
**2 Piece Bodies** Full Port  
**Stainless Steel**  
**Valve Sizes:** 1/2" through 3"  
**Pressure Ratings:**  
    1/2"-3": 1000 psi WOG  
    150 psi WSP

Series S85 ball valves have been designed for ease of automation featuring Flow-Tek's ISO 5211 compliant Secure Mount actuator top flange. Other features include live loaded Smart Stem seals, anti-static protection, replaceable seats and seals, and safety latch handles. Threaded end connections.



## Series S70 & S90

Models S70/S90  
2 Piece Bodies Standard Port  
Stainless Steel & Carbon Steel  
Valve Sizes: 1/4" through 3"  
Pressure Ratings: 150 psi WSP  
1/4"-1": 2000 psi WOG  
1 1/4"-2": 1500 psi WOG  
2 1/2"-3": 1000 psi WOG

Series S70/S90 ball valves offer an economical solution for high pressure applications in the process industry. Features include adjustable stem packing, integrally cast actuator mounting top flange and safety latch handles. Carbon Steel bodies are black phosphate coated. Threaded end connections.



## Series S80

Model S80  
2 Piece Bodies Full Port  
Stainless Steel & Carbon Steel  
Valve Sizes: 3/4" through 3"  
Pressure Ratings: 150 psi WSP  
3/4"-3": 1000 psi WOG

Series S80 ball valves have been designed to meet the needs of the chemical, textile and process industries. Features include adjustable stem packing, integrally cast actuator mounting and safety latch handles. Threaded end connections.



## Series S40

Model S40  
1 Piece Bodies  
Reduced Port  
Stainless Steel  
Valve Sizes: 1/4" through 2"  
Pressure Rating:  
1/4"-2": 1000 psi WOG

Series S40 ball valves offer an economical compact, one piece body design which supplies maximum structural strength while reducing leak paths. Features include low operating torque and safety latch handles. Optional oval and butterfly handles are available. Threaded end connections.



## Series S51

Model S51 2 Piece Bodies  
Full Port Forged Brass  
Valve Sizes: 1/4" through 4"  
Pressure Ratings:  
1/4"-2": 600 psi WOG  
150 psi WSP  
2 1/2"-3": 500 psi WOG  
4": 250 psi WOG

Series S51 ball valves are the ideal utility valve for low pressure commercial applications. Bodies are forged brass for greater strength. Balls are hard chromium plated. Features include adjustable stem packing, insulated handles and full ports for minimal pressure drops. Threaded end connections.



## Multi-Port 300 Series

Models MPT355/MPT365  
3-Way Standard Port  
Forged Brass  
Valve Sizes: 1/4" through 2"  
Pressure Rating:  
1/4" - 2": 400 psi WOG

Multi-Port 3-way forged brass ball valves offered with 90° & 180° T & L ports. L ports have an off position. Features include a 4 seat design, o-ring backed seats for longer life and reduced torques, and an ISO 5211 compliant actuator mounting top flange. Threaded end connections.