

PIECE BALL VALVES



TRIAD SERIES

	Full Port	$\frac{1}{4}$ " through 4"
	Standard Port	¾" through 2 ½"
	Materials	Stainless Steel & Carbon Steel
		Full Port: 2200 psi WOG Standard Port: 2200 psi WOG FP & SP: up to 425 psi WSP

Features include live loaded Smart Stem seals through 2", a redundant body seal design, anti-static protection and locking safety handles. Hex head cap screws join end connections to the tapped center section. Special body and trim materials available.

- Fire safe to API 607
- Designed in accordance with ASME B16.34
- ISO 5211 Secure Mount actuator top flange







7000 & 8000 SERIES

Full Port	1/4" through 12"
Materials	7000 Stainless Steel 8000 Carbon Steel
	¼"-4": 1000 psi WOG 6"-12": 400 psi WOG

Features include live loaded Smart Stem seals through $2\frac{1}{2}$ ", anti-static protection and locking safety handles. These valves are also available with cavity filler seats for special service requirements. Special body and trim materials available.

• ISO 5211 Secure Mount actuator top flange



5000 & 6000 SERIES

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Full Port	$\frac{1}{4}$ " through 4"			
Materials	5000 Stainless Steel 6000 Carbon Steel			
	½"-2": 1000 psi WOG 2 ½"-4": 800 psi WOG			
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All the benefits of a 3 Piece body design at an economical price. Features include a swing out center section for ease of installation and maintenance, adjustable stem packing, heavy duty internal entry stems and stainless steel safety locking handles.

• ISO 5211 Secure Mount actuator top flange



S7500 & S7700 SERIES

Tube Bore Port	¼" through 2"
Valve Sizes	½" through 4"
Materials	Stainless Steel
Pressure Ratings	1/4"-4": 1000 psi WOG

Specifically designed for high purity applications. The ball and end connections have the same I.D. as the tube piping system. Valves come standard with 20 RA maximum (SFV-1) surface finishes and all are solution cleaned and bagged. Features include live loaded Smart Stem seals through 21/2" and locking safety handles.

- Comply with ASME BPE
- USP Class IV soft goods
- ISO 5211 (1/2"-2") Secure Mount actuator top flange



3 PIECE - STANDARD END CONNECTIONS For custom end connections contact your Flow-Tek representative.

	Threaded	Butt Weld	Extended Weld	Socket Weld	Flanged	Weld Tube	Quick Clamp	Optional Cavity Fillers
TRIAD	•	•	•	•	•	-	_	•
7000 & 8000	•	•	•	•	•	-	_	•
5000 & 6000	•	_	_	•	_	-	_	_
S7500 & S7700	_	_	_	-	_	•	•	•

FLANGED BALL VALVES



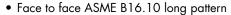
F15 & F30 SERIES

Body 2 Piece Full Port 1/2" through 12" Materials Stainless Steel & Carbon Steel Pressure Ratings F15: ASME Class 150 F30: ASME Class 300

Features include live loaded Smart Stem seals through 2", anti-static protection and locking safety handles. Larger sized valves feature trunnion-type ball support. Special body and trim materials available.

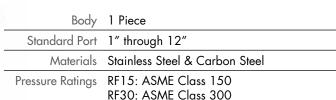
 Can be furnished Fire safe to API 607

• Designed in accordance with ASME B16.34



• ISO 5211 Secure Mount actuator top flange





These end entry flanged valves feature live loaded Smart Stem seals through 2", anti-static protection and locking safety handles. Special body and trim materials available.

 Can be furnished Fire safe to API 607



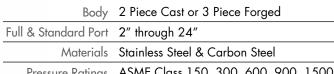


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- Face to face ASME B16.10 short pattern
- ISO 5211 Secure Mount actuator top flange





Pressure Ratings ASME Class 150, 300, 600, 900, 1500

Trunnion Series valves are ideal for heavy duty applications such as oil and gas production, power and waste water industries. Standard design features include double block & bleed, stem & seat grease fittings, body cavity drain, vent ports and self relieving spring energized seats. Special body and trim materials available.

- Can be furnished Fire safe to API 607
- Designed in accordance with API 6D





MULTI-PORT BALL VALVES



Multi-Port ball valves offer a wide range of flow patterns: 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 and locking handles.

Ported 3 & 4-way ball valves offering excellent versatility for mixing and diverting applications.

• ISO 5211 Secure Mount actuator top flange





130 SERIES

1/4" through 2" 3 Way Standard Port

> Materials Stainless Steel

1/4"-11/4": 1000 psi WOG Pressure Ratings 11/2"-2": 800 psi WOG



230 & 240 SERIES

1/4" through 4" 230 - 3 Way Full Port 240 - 4 Way

> Materials Stainless Steel & Carbon Steel

Pressure 1/4"-1": 1000 psi WOG Ratings 11/4"-4": 800 psi WOG



MULTI-PORT FLANGED SERIES

Full Port MPF150 up to 10"

MPF300 up to 6"

Stainless Steel Materials & Carbon Steel

Pressure MPF150: ASME Class 150 Ratings MPF300: ASME Class 300

 End connections designed to ASME 16.5

MULTI-PORT - STANDARD END CONNECTIONS For custom end connections contact your Flow-Tek representative.

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	Threaded	Butt Weld	Socket Weld	Flanged	Quick Clamp	Optional Cavity Fillers
130	•	-	_	-	•	-
230 & 240	•	•	•	•	•	•
FLANGED	_	_	_	•	_	•

THREADED BALL VALVES

S85 SERIES

Body 2 Piece Full Port 1/2" through 3" Materials Stainless Steel Pressure Ratings 1/2"-3": 1000 psi WOG/150psi WSG

Designed for ease of automation, features include live loaded Smart Stem seals through 2", anti-static protection, replaceable

seats and seals, and safety latch handles.

ISO 5211 Secure Mount actuator top flange



S80 SERIES

Body	2 Piece
Full Port	¼" through 4"
Materials	Stainless Steel
Pressure	1/4"-4": 1000 psi
Ratings	WOG/150psi WSG

Series S80 ball valves have been designed to meet the needs of the chemical, textile and process industries. An economical full port valve featuring adjustable stem packing, safety latch handles, and optional oval handles.

• Optional seal welded body



S70 & S90 SERIES

2 Piece
¼" through 3"
S70 Stainless Steel
S90 Carbon Steel
¼"-1": 2000 psi WOG
1¼"-2": 1500 psi WOG
2½"-3": 1000 psi WOG
150psi WSG

An economical solution for high pressure applications in the process industry. Features include adjustable stem packing, integrally cast actuator mounting pad, safety latch handles, and optional oval handles.



S20 SERIES

Body	1 Piece
Reduced Port	¼" through 2"
Materials	Stainless Steel
Pressure Ratinas	¼"-2": 2000 psi WOG/150psi WSG

One piece body design supplies maximum structural strength while reducing leak paths. Features include live loaded stem seals, safety latch handles, and optional oval handles.

• Can be furnished Fire safe to API 607



S40 SERIES

Body 1 Piece

Reduced Port 1/4" through 2"

Materials Stainless Steel

Pressure Ratings 1/4"-2": 1000 psi WOG/150psi WSG

An economical, compact, one piece body design that supplies maximum structural strength while reducing leak paths. Features include low operating torque and safety latch handles. Optional oval and wing handles are available.



THREADED VALVES continued



HP, 3HP, & HX SERIES INSTRUMENTATION VALVES

3 Piece Body 1/4" through 1" Materials Stainless Steel HP: 6000 psi WOG Pressure Ratings HX: 10,000 psi WOG 3HP: 6000 psi WOG

End Connections NPT Threaded

S51 SERIES COMMERCIAL UTILITY VALVES

2 Piece Body ¼" through 4" Materials Brass Pressure Ratings 1/4"-2": 600 psi WOG 2 ½"-4": 400 psi WOG 1/4"-4": 150 psi WSP End Connections NPT Threaded

CHARACTERIZED V-PORT BALLS













Mount

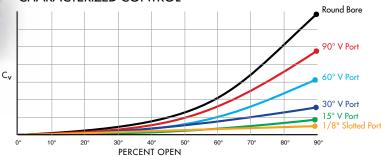
30° 15° Slotted

Valves Series	Sizes Available
7000/8000	1/4"-12"
Triad	1/2"-4"
F1 <i>5</i> /F30	1/2"-12"
RF15/RF30	1″-12″

When combined with Flow-Tek's line of Pneumatic and Electric Actuators and controls, the V-Control delivers exceptional performance.

With characterized V-ports, slotted ports or custom ports, V-Control Ball Valves provide accurate flow control. Available in 3-Piece and Flanged bodies, V-Control valves offer superior rangeability, repeatability and high flow capacity. These quarter turn valves are easily automated and make an ideal control element in process piping systems.

CHARACTERIZED CONTROL



SPECIALTY PRODUCTS



METAL SEATED

SOLID SEAT RING

F15/F30 1/2"-12" RF15/RF30 1"-12"

MULTI-COMPONENT SEAT RING

F15/F30 1/2"-2"

Pressure Ratings

Carbon Steel Up to 505 psi @ 750°F Stainless Steel Up to 425 psi @ 750°F

Available with solid seat rings or a patented multi-component seat design. Using hardened metal seats and balls, the valves can be used in applications exceeding the limits of soft seated ball valves. Each valve is tested to meet or exceed FCI 70-2 Class IV shutoff requirements as standard and class V or VI shutoff requirements as an option. These metal seated valves are ideal for abrasive and high temperature applications.



CRYOGENIC SERVICE

Full Port Flanged 1/2" - 12" Full Port Triad 1/4" - 4" Standard Port Triad 34" - 21/2"

Temperature Service to -425° F

Used in the production, transportation and storage of liquefied gases, these specially designed valves have extended stems and bonnets that position the packing above the cryogenic fluid. Some key features include high-density TFM 1600 seat and seals and live loaded stem packing. Valves are unidirectional with vent holes in the stem slot and upstream face of the ball.

- All valves are permanently marked with a flow direction arrow.
- Available in a shorter stem/bonnet, low temperature version.
- ISO 5211 (1/2"-2") actuator top flange



SERIES 19 SEGMENTED

1 Piece Body 1"-12"

Materials Stainless Steel & Carbon Steel

ASME Class 150, 300 & 600

A versatile Segmented Ball Valve designed for throttling or on-off applications

in various industries including pulp & paper, chemical, power, oil & gas, and mining.

The valve features a characterized ball segment for high rangeability with splined stem connection for precise control, maintenance friendly segment-stem assembly, low friction shaft and thrust bearings for longer life, integral actuator mounting pads, and interchangeable seats. Special body and trim materials available.



MEDIA CONTAINMENT

Valve Sizes 1/4" - 10"

Available for Triad, 7/8000, S85, F15/F30, RF15/RF30, S7000

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. Designed for both automated and manual service, the MCU is easily installed in the field onto existing Flow-Tek ball valves.



STEAM ISOLATION Valves Sizes: 1/2" through 12"

Full port flanged ball valves are available for low temperature steam distribution and isolation service. Carbon steel, ASME Class 300 valve sizes 4" and larger are offered with optional bypass, feature quarter turn operation, positive shutoff and live loaded packing.

ELECTRIC & PNEUMATIC ACTUATORS



PNEUMATIC - DOUBLE ACTING & SPRING RETURN

Output Torque: 50 to 44,130 lb-in at 80 psi

Rack & pinion, opposed-piston pneumatic actuators are self contained with integral internal porting. Units are suitable for both on/off and throttling applications.

- Double Acting Rotation: 90°, 135°, 180° & Spring Return Rotation: 90°
- Supply pressure up to 145 psi (10 bar)
- Temperature Range: -20°F (-29°C) to +200°F (+95°C)



Output Torque: 300 to 18,000 lb-in

This design offers greatly reduced space requirements, lighter weight and ease of installation and maintenance.

- Designed to meet NEMA 4, 4x (IP 65) or NEMA 4,4x,7,9
- 120 or 220 VAC single phase permanent split-capacitor reversible induction UL listed motor, 24 VDC motor optional
- 90° reversible rotation
- Temperature Range: -40°F (-40°C) to +150°F (+65°C)

FTG SERIES Worm Gear Operators for 1/4" through 12" Ball Valves



Options: .. Locking Device, Chain Wheels, Horizontal Flag Indicator, 2" Square Input Drive Nut, Grease Fitting & Flow Pattern Indicators for Mulitport Valves

Feature a ductile iron housing, aluminum bronze gear segment and one piece steel worm gear input shaft with tapered roller bearings on both ends. Adjustable travel stops provide precise adjustment in both open and closed positions. Housings are sealed and weather proof to fully isolate internal parts from atmospheric conditions.

SRH SERIES Spring Return Handles (Deadman Handle) for ¼" through 2" Ball Valves



Spring Return (Deadman) Handles are manufactured from heavy duty stainless steel components to withstand frequent daily use in refueling, sampling, drains, and other OSHA applications that require positive safety closure of a manual valve. Each SRH Handle has a standard locking device.

Available in three sizes that mount directly to the rugged investment cast ISO 5211 mounting pads on compatible Flow-Tek full or standard port ball valves.



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