

**TRI LOK®
Triple Offset Valve**

- > High pressure
- > Zero leakage
- > Metal-to-metal sealing



Size Range	3" - 48" (80mm - 1200mm)
Body Style	Wafer, Lug, Double Flanged, Long Pattern (Gate)
Temperature Range	-320°F to 842°F (-196°C to 450°C)
Pressure Rating	ASME Class 150, 300, 600
Shut Off Class	Zero leakage in normal and dead end service
Body Materials	Carbon Steel, Stainless Steel
Disc Materials	Carbon Steel, Stainless Steel
Stem Materials	17-4PH, 410 Stainless Steel, XM-19 (Nitronic® 50)
Body Seat Materials	316SS Hardened
Disc Seal Materials	Laminated 318 Stainless Steel/Graphite
Applications	Critical Service, High Pressure, High Temperature, Cryogenic Service

REPLACEABLE SEAT & SEAL RING

A field replaceable seat and seal ring system extends the overall life, without the need for costly off site repairs or total replacement.

PACKING

The fully adjustable, field replaceable stem seal system eliminates fugitive emissions.

STEM

Tri Lok's unique splined disc-to-stem connection minimizes hysteresis and eliminates external connections.

SUPERIOR SEAT HARDNESS

Tri Lok's industry leading seat and seal hardness differential protects the valve from seat and seal galling and extends the valve service life.

**MCCANNALOK
High Performance
Butterfly Valve**

- > High pressure
- > High temperature



Size Range	2" - 66" (50mm - 1650mm)	
Body Style	Wafer, Lug, Double Flanged	
Temperature Range	-320°F to 900°F (-196°C to 482°C)	
Pressure Rating	ASME Class 150, 300 and 600	
Shut Off Class	Zero leakage	
Body Materials	Carbon Steel, Stainless Steel, Nickel Aluminum Bronze	
Disc Materials	Stainless Steel, Nickel Aluminum Bronze	
Stem Materials	Stainless Steel, Monel® K500	
Seat Materials	Standard	RPTFE with Resilient Energizer PTFE with Resilient Energizer
	Fire Safe	RPTFE and Inconel® with Resilient Energizer
	Polar®	Engineered Thermoplastic
	Metal Seat	Inconel®
	Low Temp.	TFM with Resilient Energizer
Applications	High Pressure, High Temperature, Low Temperature, Cryogenic Service, Critical Service	

The McCannalok's innovative seat design offers easy maintenance and industry-leading performance in high and low pressure services.

Available with low temperature, cryogenic, metal to metal, and fire safe seat designs, the McCannalok offers robust performance in some of the most demanding applications. The Cryogenic McCannalok offers industry-

leading shut off for the air separation industry. The Metal Seated McCannalok offers low torque performance while providing customers with a rugged control valve for abrasive and harsh chemical applications. The Fire Safe McCannalok is validated to the latest industry standards and is offered in a low temperature configuration to service ship builders worldwide.

SERIES 30/31

Size Range	2" - 20" (50mm - 500mm)	
Body Style	Wafer, Lug	
Temperature Range	-20°F to 400°F (-29°C to 204°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	175 psi (12 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Cast Iron, Ductile Iron, Carbon Steel, Aluminum	
Disc Materials	Nylon 11 Coated Ductile Iron, Aluminum Bronze, Stainless Steel, Hastelloy®, Halar® Coated Ductile Iron	
Stem Materials	Stainless Steel, Monel® K500	
Seat Materials	EPDM, BUNA-N, FKM, Polyurethane, HTEPDM	
Applications	Water, Wastewater, Seawater, HVAC, Other Liquids and Gases	



SERIES 31H

Size Range	2" - 20" (50mm - 500mm)	
Body Style	Lug	
Temperature Range	-20°F to 250°F (-29°C to 121°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	250 psi (17.2 bar)
	Body CWP	250 psi (17.2 bar)
Body Material	Ductile Iron	
Disc Materials	Nylon 11 Coated Ductile Iron, Aluminum Bronze, Stainless Steel	
Stem Materials	Stainless Steel	
Seat Materials	Bonded EPDM, Bonded BUNA-N	
Applications	High Pressure, HVAC, Dead End Service	



SERIES 3A/3AH

Size Range	2" - 20" (50mm - 500mm)	
Body Style	Double Flanged	
Temperature Range	-20°F to 400°F (-29°C to 204°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	250 psi (17.2 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Cast Iron, Ductile Iron, Carbon Steel	
Disc Materials	Nylon 11 Coated Ductile Iron, Aluminum Bronze, Stainless Steel	
Stem Materials	Stainless Steel, Monel® K500	
Seat Materials	Bonded EPDM, Bonded BUNA-N, Bonded FKM*	
Applications	Water, Wastewater, Seawater, Other Liquids and Gases	



SERIES 20/21

Size Range	1" - 20" (25mm - 500mm)	
Body Style	Wafer, Lug	
Temperature Range	-20°F to 400°F (-29°C to 204°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	150 psi (10.3 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Cast Iron, Ductile Iron, Stainless Steel, Aluminum	
Disc/Stem Materials	Stainless Steel, EPDM Molded over SS, BUNA-N Molded over SS	
Seat Materials	EPDM, BUNA-N, PTFE Lined EPDM, FKM, Polyurethane	
Applications	Sanitary Service, Mildly Corrosive, Toxic Media, Other Liquids and Gases	




SERIES 32/33 & 35/36

Size Range	S32/33 - 22" - 36" (550mm - 900mm) S35/36 - 22" - 120" (550mm - 3000mm)	
Body Style	S32/33 Wafer, S35/36 Full Flanged	
Temperature Range	-20°F to 250°F (-29°C to 121°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	150 psi (10.3 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel	
Disc Materials	Nylon 11 Coated Ductile Iron, Aluminum Bronze, Stainless Steel, Duplex Stainless Steel, Super Austenitic Stainless Steel, Hastelloy®, Monel®	
Stem Materials	Stainless Steel, Duplex Stainless Steel, Super Austenitic Stainless Steel, Monel®	
Seat Materials	EPDM, BUNA-N, FKM	
Applications	Water, Wastewater, Seawater, Other Liquids and Gases	


SERIES 36H

Size Range	22" - 60" (550mm - 1500mm)	
Body Style	Full Flanged	
Temperature Range	-20°F to 250°F (-29°C to 121°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	232 psi (16 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Ductile Iron	
Disc Materials	Nylon 11 Coated Ductile Iron, 316 Stainless Steel, Aluminum Bronze	
Stem Materials	17-4 PH Stainless Steel	
Seat Materials	Bonded EPDM, Bonded BUNA-N	
Applications	High Pressure, HVAC, Dead End Service	


SERIES 35F

Size Range	32" - 60" (800mm - 1500mm)	
Body Style	Full Flanged	
Temperature Range	-20°F to 250°F (-29°C to 121°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	75 psi (5.2 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Cast Iron, Ductile Iron, Hastelloy®	
Disc Materials	Duplex Stainless Steel, Super Austenitic Stainless Steel, Hastelloy®	
Stem Materials	Stainless Steel	
Seat Materials	Bonded EPDM, Bonded BUNA-N	
Applications	FGD, Mining, Seawater	


SERIES 31U

Size Range	2" - 12" (50mm - 300mm)	
Body Style	Lug	
Temperature Range	0°F to 212°F (-18°C to 100°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	285 psi (20 bar)
	Body CWP	285 psi (20 bar)
Body Materials	Ductile Iron, Carbon Steel, Nickel Aluminum Bronze	
Disc Materials	Stainless Steel, Nickel Aluminum Bronze	
Stem Materials	Stainless Steel, Monel® K500	
Seat Materials	Bonded BUNA-N	
Applications	High Pressure Industrial and Marine Dead End Service, On-Shore and Off-Shore Fire Protection	

Pressure/Temperature ratings and material availability depend on valve size and series. Please consult your local Bray representative for your specific application.
 FKM is the ASTM D1418 designation for Fluorinated Hydrocarbon Elastomers (also called Fluoroelastomers)
 Hastelloy® is a registered trademark of Haynes International, Inc. - Halar® is a registered trademark of Solvay Solexis, Inc.

SERIES 39

Size Range	2" - 20" (50mm - 500mm)	
Body Style	Wafer, Flanged Long Body	
Temperature Range	-20°F to 300°F (-29°C to 150°C)	
Pressure Rating	230 psi (16 bar)	
Shut Off Rating	≥ Class 4	
Body Materials	Ductile Iron, Stainless Steel	
Disc Materials	Chrome-Molly Iron (Hardened), PSZ Ceramic (Partially Stabilized Zirconia)	
Stem Materials	Stainless Steel	
Liner Materials	Ceramic (Sintered Silicone Carbide), Metallic Carbide Rich, Chrome Iron Alloy	
Applications	Slurry Control, Highly Abrasive	



SERIES 22/23

Size Range	2" - 24" (50mm - 600mm)	
Body Style	Wafer, Lug	
Temperature Range	0°F to 392°F (-18°C to 200°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	150 psi (10.3 bar)
	Body CWP	250 psi (17.2 bar)
Body Materials	Ductile Iron, Carbon Steel, Stainless Steel	
Disc/Stem Materials	Stainless Steel, PTFE/SS, UHMWPE/SS, UHMWPE/DI, Hastelloy®, Titanium, PFA/SS	
Seat Materials	PTFE, Conductive PTFE, UHMWPE	
Applications	Highly Corrosive, Toxic Media, Ultra Pure Water	



Amrēsisit®

ACRIS PFA LINED BUTTERFLY VALVES

Size Range	1" - 24" (25mm - 600mm)	
Body Style	Two-piece, Wafer, Lug	
Temperature Range	-20°F to 320°F (-29°C to 160°C)	
Pressure Ratings	185 psi (12.5 bar) 1" to 12"	
	150 PSI (10 bar) 14" to 24"	
Body Material	Ductile Iron	
Disc/Stem Materials	1k = 17-4SS over molded with PFA (1" to 12")	
	1k = 17-4SS shafts/high strength steel disc over molded with PFA (14" to 24")	
	1s = Carbon Steel over molded with PFA (1" to 12")	
	7t = Titanium grade 7 (3" to 12")	
Applications	Highly corrosive and ultra pure industrial applications	



ACRIS PFA LINED BALL VALVES

Ports	Full, Standard	
Body Style	Two-body halves	
Size Range	1/2" to 6" (15mm - 150mm) Full Port	
	1" to 4" (25mm - 100mm) Standard Port	
Temperature Range	-49°F to 400°F (-45°C to 204°C)	
Pressure Ratings	Up to 250psi (17bar)	
Body Material	PFA Lined ASTM A-216 WCB PFA Lined ASTM A-351 CF8M (optional)	
Seat Materials	TFM	
Applications	Highly corrosive and ultra pure industrial applications	





V-CONTROL

Ports	V-Port (Standard 15°, 30°, 60° & 90°, Custom and Slotted Ports), Full, Standard Port	
Body Style	Flanged, 3 Piece	
Size Range	1/4" - 12" (8mm - 300mm)	
Temperature Range	-50°F to 550°F (-46°C to 287°C)	
Pressure Rating	ASME Class 150, 300 (PN10 to PN40) & 2200 psi CWP (151 bar) 1000 psi CWP (69 bar)	
End Connections	RF Flanged, Threaded, Socket Weld, Butt Weld, Extended Socket Weld or Butt Weld, Tri-Clamp	
Body Materials	Stainless Steel, Carbon Steel, Alloys	
Seat Materials	Standard: Tek-Fil®	Optional: PEEK, Metal
Applications	Flow Control, Level Control, Temperature Control, Low Pressure Steam Control	



SERIES 19 SEGMENTED

Port	Segmented V-Ball	
Body Style	1 Piece	
Size Range	1" - 16" (25mm - 300mm)	
Temperature Range	-40°F to 500°F (-40°C to 260°C)	
Pressure Rating	ASME Class 150, 300, 600	
End Connections	RF Flanged ASME Class 150, 300, 600 & Wafer ASME Class 150, 300	
Body Materials	Stainless Steel, Carbon Steel, Optional Special Alloys	
Seat Materials	Metal, Tek-Fil®	
Applications	Pulp & Paper, Suspended Solids, HVAC, Light Abrasive Fluids	



FLANGED SERIES F15/F30, RF15/RF30

Ports	Full, Standard Port	
Body Style	F15/F30 2 Piece, RF15/RF30 1 Piece	
Size Range	1/2" - 12" (15mm - 300mm)	
Temperature Range	-50°F to 750°F (-46°C to 400°C)	
Pressure Rating	ASME Class 150, 300 (PN10 to PN40)	
End Connections	ASME Class 150, 300 (PN10 to PN40)	
Body Materials	Stainless Steel, Carbon Steel, Alloys	
Seat Materials	Standard: TFM 1600	Optional: Tek-Fil®, PEEK, UHMWPE, RPTFE, Metal, Cavity Fillers
Applications	General Service, Process, Tank Farms, Fueling, Oil & Gas, NACE, Fire Safe	



MULTI-PORT SERIES (MPT / MPC / MPS / MPB / MPF)

Ports	Full, Standard Port	
Body Style	3 & 4 Way	
Size Range	1/4" - 12" (8mm - 300mm)	
Temperature Range	-25°F to 500°F (-31°C to 260°C)	
Pressure Ratings	ASME Class 150, 300 & 1000 psi CWP (69 bar)	
End Connections	Threaded, Tri-Clamp, Socket Weld, Butt Weld, RF Flanged	
Body Materials	Stainless Steel, Carbon Steel, Alloys	
Seat Materials	Standard: TFM 1600	Optional: Tek-Fil®, UHMWPE, RPTFE, PTFE, Cavity Fillers
Applications	Diverting, Mixing, Blending, and Bypassing	

Pressure/Temperature ratings and material availability depend on valve size and series.
Please consult your local Bray representative for your specific application.



TRUNNION SERIES

Ports	Full, Standard Port
Body Style	2 Piece Cast, 3 Piece Forged
Size Range	2" - 36" (50mm - 900mm)
Temperature Range	-50°F to 400°F (-46°C to 200°C)
Pressure Rating	ASME Class 150, 300, 600, 900, 1500
End Connections	ASME Flanged, Butt Weld
Body Materials	Stainless Steel & Carbon Steel
Seat Materials	RPTFE, Nylon, Metal
Applications	Chemical, Petroleum, Pipeline, Fuel Gas, CO ₂



TRIAD SERIES

Ports	Full, Standard Port
Body Style	3 Piece
Size Range	1/4" - 4" (8mm - 100mm)
Temperature Range	-50°F to 550°F (-46°C to 287°C)
Pressure Rating	2200 psi CWP (151 bar), Triad HP to 5000 psi CWP (344 bar)
End Connections	Threaded, Socket Weld, Butt Weld, 600# Flanged, Extended Socket Weld or Butt Weld
Body Materials	Stainless Steel, Carbon Steel, Optional Special Alloys
Seat Materials	Standard: TFM 1600 Optional: Tek-Fil®, PEEK, UHMWPE, RPTFE, Metal, Cavity Fillers
Applications	General Service, Process, Steam, Fire Safe, Industrial Gases, Critical Service



SERIES 7000 / 8000

Port	Full Port
Body Style	3 Piece
Size Range	1/4" - 12" (8mm - 300mm)
Temperature Range	-50°F to 550°F (-46°C to 287°C)
Pressure Rating	1/4" - 4": 1000 psi CWP (69 bar), 6" - 12": 400 psi CWP (27 bar)
End Connections	Threaded, Socket Weld, Butt Weld, Flanged, Extended Socket Weld or Butt Weld
Body Materials	Stainless Steel (7000), Carbon Steel (8000)
Seat Materials	Standard: RPTFE Optional: TFM 1600, Tek-Fil®, UHMWPE, Cavity Fillers
Applications	General Service, Process, OEM Equipment



SERIES 5000 / 6000

Port	Full Port
Body Style	3 Piece
Size Range	1/4" - 4" (8mm - 100mm)
Temperature Range	-50°F to 450°F (-46°C to 232°C)
Pressure Rating	1/4" - 2" 1000 psi CWP (69 bar), 2-1/2" - 4" 800 psi CWP (55 bar)
End Connections	Threaded, Socket Weld
Body Materials	Stainless Steel (5000), Carbon Steel (6000)
Seat Materials	RPTFE
Applications	General Service, OEM Equipment



MICRO PURE SERIES

Port	Tube Bore	
Body Style	3 Piece	
Size Range	1/2" - 4" (15mm - 100mm)	
Temperature Range	-50°F to 450°F (-46°C to 232°C)	
Pressure Rating	To 1000 psi CWP (69 bar)	
End Connections	Tri-Clamp, Extended Tube, JIC	
Body Materials	Stainless Steel CF3M	
Seat Materials	Standard: PTFE	Optional: TFM 1600, UHMWPE, Cavity Fillers
Applications	High Purity, Semi Conductor, Food & Beverage	



THREADED SERIES S85

Port	Full Port	
Body Style	2 Piece	
Size Range	1/2" - 3" (15mm - 80mm)	
Temperature Range	-50°F to 450°F (-46°C to 232°C)	
Pressure Ratings	1000 psi CWP (69 bar) - 150 psi WSP (10.3 bar)	
End Connections	Threaded	
Body Materials	Stainless Steel	
Seat Materials	Standard: RPTFE	Optional: UHMWPE
Applications	General Service, Air, Water, Oil & Gas	



THREADED SERIES S70/S90, S80, S20, S40, S51

Ports	Full, Standard, Reduced Port	
Body Style	1 Piece & 2 Piece	
Size Range	1/4" - 4" (8mm - 100mm)	
Temperature Range	-20°F to 450°F (-29°C to 232°C)	
Pressure Ratings	Through 2000 psi CWP (138 bar)	
End Connections	Threaded	
Body Materials	Stainless Steel, Carbon Steel, Brass	
Seat Materials	RPTFE	
Applications	General Service, Air, Water, Oil & Gas	



CRYOGENIC SERVICE

Ports	Full, Standard Port	
Body Style	3 Piece, Flanged	
Size Range	1/4" - 4" (8mm - 100mm)	
Temperature Range	-260°F to 500°F (-162°C to 260°C)	
Pressure Ratings	ASME Class 150, 300, 600	
End Connections	Threaded, Socket Weld, Butt Weld, RF Flanged	
Body Materials	Stainless Steel	
Seat Materials	Polar®	
Applications	LNG, Air Separation, Liquefied Gases, Food & Beverage Processing	

Pressure/Temperature ratings and material availability depend on valve size and series.
Please consult your local Bray representative for your specific application.

SERIES M1 - SEVERE SERVICE

Design Standards	ASME B16.34 ASME Section VIII - Div 1, Appendix 2
Sizes	1/2" - 36" (DN 15 - 900), custom and larger sizes upon request
Pressure Ratings	ASME 150 - 4500, custom higher pressures upon request
Temperature	Standard design rated up to 1100 °F (593 °C), can be customized for higher temperatures
End Connections	Raised Face and Ring Type Joint (ASME B16.5 and DIN 2501) Butt welds (ASME B16.25) Socket weld (ASME B16.11) Hubs & Custom Ends Available
End-To-End	ASME B16.10 (Long Pattern)
Testing	MSS SP-61, API 598, ANSI/FCI Class VI Custom Tests available
Critical Applications	Refining, Power Generation, Mining, Chemical, Synthetic Fuels, Petrochemical



SERIES M4 - SEVERE SERVICE

Size Range	NPS 1/2" - 2-1/2" SW or BW - DN 15 - 65, NPS 3 & 4 BW - DN 80 & 100
Bore Sizes	0.63", 1.03", 1.56"
Body Materials	A105, A182-F22 Cl.3, A182-F91
Ball Materials	410 SS/HVOF Chromium Carbide, Inconel® 718/Fused Chromium Carbide
Seat Materials	410 SS/HVOF Chromium Carbide, Inconel® 718/HVOF Chromium Carbide
Pressure Ratings	ASME 1700, 3100, 4500 1/2" thru 2-1/2", Limited Class 3" and 4" Standard Class
Temperature	Up to 1100°F (593°C)
End Connections	SW per ASME B16.11, BW per ASME B16.25
Design Standards	ASME B16.34, Bore sizes per ASME TDP-1
Testing	Meets and exceeds API 598, or per customer request
Characteristics	On/Off, Zero Leakage
Applications	High Pressure and Temperature Steam



Bray/Rite CHECK VALVES



ASME Class 125 - 2500

1" (25mm) - 60" (1500mm)

API, DIN, BS, JIS Classes Available

Bray/Rite Valves successful, long term use in applications worldwide has made Bray/Rite the industry standard for economy, efficiency, durability and reliability.

Bray/Rite wafer combination swing check valves are flow activated. Inlet ports and disc have been shape optimized to achieve a fully open position at low velocity (3 ft/s on average) and at a lower pressure drop than most. Our check valves operate exceptionally well in series with control valves and lines with varying media flows.



Sea Water Valve

Aquatic Animal Life Support Check Valve

PEZ SA-4AX PVC

Very popular with aquariums and marine environments.

PVC Body with passivated stainless steel and titanium internals with or without external position indication lever. Eliminates internal body corrosion.

Applications: Salt water, aquatic animal life support systems, desalination applications


SERIES 740 BIDIRECTIONAL KNIFE GATE VALVES

Size Range	2" - 36" (50 - 900mm)	Body Materials	CF8 (304), CF8M (316)
Pressure Rating	2"-24" 150psi (10bar), 30"-36" 100psi (7bar)	Gate Materials	304 SS, 316 SS
Body Style	Single Piece (Lug)	Seat Materials	Buna-N
Design	MSS SP-81	Stem	304
Testing	MSS SP-151	Packing Materials	PTFE Impregnated Synthetic Fiber
Face-to-Face	MSS SP-81		
Certification	CE/PED, Canadian CRN	Actuator Options	Handwheel Bevel Gear Pneumatic Hydraulic Electric
Drilling	ASME B16.5 CL150, ASME B16.47 CL150		

Applications: On/off service and isolation of clean, dirty, corrosive or viscous media in pulp & paper, chemical, mining, power and wastewater applications.


SERIES 746 BIDIRECTIONAL POLYURETHANE LINED SLURRY VALVES

Size Range	2" to 24" (50 - 600mm)	Body Materials	Ductile Iron
Pressure Rating	240psi (16bar)	Gate Materials	316SS
Body Style	One-piece (Wafer)	Liner Materials	Polyurethane
Design	Manufacturer Standard	Packing Materials	PTFE impregnated synthetic fiber
Testing	MSS SP-81		
Face-to-face	MSS SP-81	Actuator Options	Handwheel Bevel Gear Pneumatic Hydraulic Electric
Drilling	ASME B16.5 CL150		

Applications: On/off service handling corrosive or abrasive media in pulp & paper, chemical, mining and power applications.


SERIES 755 BIDIRECTIONAL URETHANE LINED SLURRY VALVES

Size Range	2" to 24" (50 - 600mm)	Body Materials	CF8, CF8M, WCB, DI
Pressure Rating	150psi (10bar), 240psi (16bar), 300psi (20bar)	Gate Materials	304, 316SS
Body Style	Two-piece bolted (Wafer)	Seat Materials	Buna-N
Design	Manufacturer Standard	Packing Materials	PTFE impregnated synthetic fiber
Testing	MSS SP-81		
Face-to-face	MSS SP-81	Actuator Options	Handwheel Bevel Gear Pneumatic Hydraulic Electric
Certification	Canadian CRN		
Drilling	ASME B16.5 CL150		

Applications: Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.


SERIES 768 BIDIRECTIONAL HEAVY DUTY SLURRY VALVES

Size Range	2" - 60" (50 - 1500mm)	Body Materials	CF8M (316), DI
Pressure Rating	2"-24" 240psi (16bar) 26-60" 150psi (10bar)	Gate Materials	316SS
Body Style	Two-piece Bolted (Wafer)	Seat Materials	Natural Rubber
Design	Manufacturer Standard	Wiper	EPDM
Testing	MSS SP-81		
Face-to-Face	MSS SP-81	Actuator Options	Handwheel Bevel Gear Pneumatic Hydraulic Electric
Certification	Canadian CRN		
Drilling	ASME B16.5 CL150, ASME B16.47 CL150		

Applications: On/off service and isolation of clean, dirty, corrosive or viscous media in pulp & paper, chemical, mining, power and wastewater applications.

SERIES 762 BIDIRECTIONAL HEAVY DUTY SLURRY VALVES

Size Range	2" to 24" (50 - 600mm)	Body Materials	Ductile Iron
Pressure Rating	2"-24" 150psi (16bar)	Gate Materials	316SS
Body Style	Two-piece bolted (Flanged)	Seat Materials	Natural Rubber
Design	Manufacturer Standard	Wiper Materials	Polyurethane
Testing	MSS SP-151	Actuator Options	Handwheel Bevel Gear Pneumatic
Face-to-Face	Per Industry Standard		Hydraulic Electric
Drilling	ASME B16.5 CL150, ASME 16.47 CL150		

Applications: Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.



SERIES 765 BIDIRECTIONAL SLURRY VALVES

Size Range	2" to 24" (50 - 600mm)	Body Materials	Ductile Iron
Pressure Rating	150psi (10bar)	Gate Materials	304SS
Body Style	Two-piece bolted (Wafer)	Seat Material	Natural Rubber
Design	Manufacturer Standard	Wiper Material	EPDM
Testing	MSS SP-81	Actuator Options	Handwheel Bevel Gear Pneumatic
Face-to-face	MSS SP-81		Hydraulic Electric
Certification	Canadian CRN		
Drilling	ASME B16.5 CL150		

Applications: Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.



SERIES 767 BIDIRECTIONAL HIGH PRESSURE SLURRY VALVES

Size Range	3" to 30" (80 - 750mm)	Body Materials	Ductile Iron
Pressure Rating	3"-24" 375psi (25bar), 26"-30" 300psi (20bar)	Gate Materials	316SS
Body Style	Two-piece bolted (Wafer)	Seat Materials	Natural Rubber
Design	Manufacturer Standard	Wiper Materials	Polyurethane
Testing	MSS SP-81 / MSS SP-135	Actuator Options	Handwheel Bevel Gear Pneumatic Hydraulic Electric
Face-to-face	Per Industry Standard		
Drilling	ASME B16.5 CL300 ASME B16.47 CL300		

Applications: High pressure on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

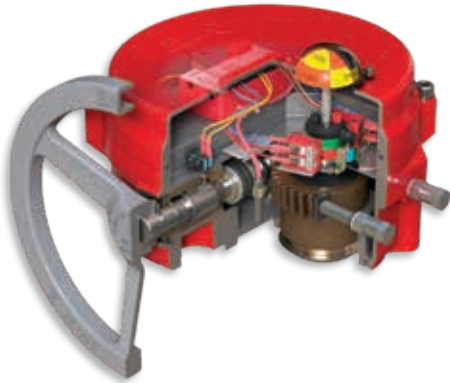


SERIES 940/941 UNIDIRECTIONAL KNIFE GATE VALVES

Size Range	2" to 36" (50 - 900mm)	Body Materials	CF8, CF8M, WCB
Pressure Rating	2"-24" 150psi (10bar), 30"-36" 100psi (7bar)	Gate Materials	316, 304SS
Body Style	940-Single piece Lug 941-Wafer, Lug	Seat Materials	Integral
Design	MSS SP-81	Packing Materials	PTFE Impregnated synthetic fiber
Testing	MSS SP-151	Actuator Options	Handwheel Bevel Gear Pneumatic Hydraulic Electric
Face-to-Face	MSS SP-81		
Certification	CE/PED, Canadian CRN		
Drilling	ASME B16.5 CL150, ASME B16.47 CL150		

Applications: General purpose on/off service and isolation of clean, dirty, corrosive, abrasive, viscous and high temperature media in power, mining, pulp & paper, cement, carbon black and chemical applications.




SERIES 70 ELECTRIC ACTUATOR
Low profile, compact, high output actuator for quarter turn applications

- > On/Off or modulating (Servo NXT)
- > High visibility dome position indicator
- > Manual declutchable handwheel
- > Network protocols available

Torque	301 to 17,967 lb-ins (34 to 2030 Nm)
Voltage	VAC: 24, 120, 220, VDC: 24
Standard Enclosure	NEMA Type 4, 4X
Explosion Proof (Optional)	NEMA Type 4, 4X, 7, 9 Class I, Div 1 & 2, Group C, D Class II, Div 1 & 2, Group E, F, and G



Extreme High Temperature Actuator



Stainless Steel Actuator

SERIES 92/93 PNEUMATIC ACTUATOR
Rack and pinion actuators available in double acting and spring return

- > Standard units have anodized aluminum bodies with polyester coated end caps
- > Optional Seacorr coating for harsh environments
- > SIL 3 capable
- > Integral porting
- > Internal bidirectional travel stops

Torque	Double Acting up to: 44,130 lb-in (4,986 Nm) Spring End Torque up to: 14,173 lb-in (1,601 Nm)	
Pressure Range	40 - 140 psi (2.8 - 10 bar)	
Media	Dry Compressed Air/Inert Gas*	
Temperature Range	Standard	-4°F to 200°F (-20°C to 93°C)
	Low	-40°F to 176°F (-40°C to 80°C)
	High	0°F to 300°F (-18°C to 149°C)
	Extreme High Temperature	0°F to 482°F (-18°C to 250°C)

*Contact factory for other media or non-standard temperature range.

SERIES 98 SCOTCH YOKE PNEUMATIC ACTUATOR
Scotch yoke actuator for quarter turn rotary operation

- > Compact design with a high torque to weight ratio
- > Pressure Equipment Directive (PED) 97/23/EC compliant
- > Modular design offers easy configuration in the field
- > Standardized interfaces: ISO 5211, VDI/VDE 3845 for accessories
- > Premium epoxy/polyurethane coating as standard
- > Optional Seacorr coating for harsh environments
- > SIL 3 capable

Torque	Double Acting up to: 885,000 lb-in (100,000 Nm) Spring Return (Spring End) up to: 445,261 lb-in (50,306 Nm)	
Pressure Range	40 - 150 psi (2.8 - 10.3 bar)	
Media	Dry Compressed Air/Inert Gas*	
Temperature Range	Standard	-4°F to 200°F (-20°C to 93°C)
	High Temperature	Up to 300°F (149°C)
	Low Temperature	Down to -50°F (-46°C)

Optional modular components:

- > Manual overrides
- > Hydraulic dampener for fast acting operation, lockout/pst device
- > Lockout/PST device



SERIES 6A ELECTRO-PNEUMATIC POSITIONER

- > Precision digital control
- > Zero bleed design
- > Compatible with rotary or linear actuators for single and double acting applications
- > Various housing options available
- > Precise, microprocessor driven flow control and advanced communication
- > Non-contacting position sensor technology
- > Integral volume booster
- > Connective and preventative maintenance self-diagnostic checks



SERIES 6P PNEUMATIC POSITIONER

- > Pneumatic to pneumatic positioner for single and double acting actuators
- > Rugged aluminum diecast housing for harsh environments
- > Minimal setup time for zero and span adjustment
- > Split range capabilities
- > High visibility dome position indicator
- > Optional 2 x SPDT mechanical switches



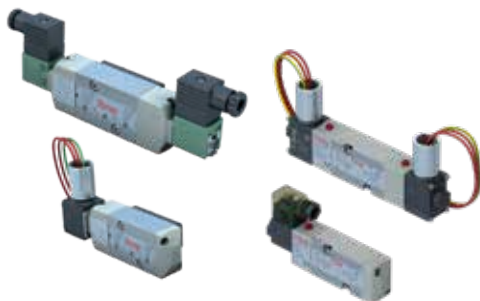
SERIES 5A, 5B AND 5C VALVE STATUS MONITORS

- > Discrete status monitor for quarter turn rotary actuators
- > NEMA 4, 4X and IP66 and IP67 ingress protection
- > Intrinsically safe or explosion-proof options for hazardous locations
- > High visibility dome position indicator
- > Up to 6 SPDT switches or non-contacting proximity switches
- > Switches pre-wired to internal terminal block



SERIES 54 VALVE PROXIMITY SENSOR

- > Dual proximity sensors for valve position
- > NEMA 4, 4X and IP66, IP67, IP69K ingress protection available
- > Available solenoid outputs
- > 2 or 3 wire DC, AC/DC, intrinsically safe, and AS-i interface
- > Pin connector or conduit versions available



SERIES 63 SOLENOID VALVES

- > Weatherproof NEMA 4, 4X and explosion proof housings available
- > Flying leads or DIN connectors, single or dual coil
- > 5/2 or 3/2 operation
- > NAMUR mounted
- > High flow up to 1.4 Cv
- > Intrinsically safe versions available
- > Available voltages: 12, 24 VDC; 24, 110, 220 VAC

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