

# КАТАЛОГ



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Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
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Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
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## INTRODUCTION

At Bray International, Inc., our business is helping our customers with their flow control requirements. Our modular product line of butterfly, ball, knife gate and check valves, actuators and accessories offers the best compatibility, economy and quality performance in the flow control industry.

Through years of field application experience, research and development Bray has designed products that meet the stringent requirements of today's flow control industry. We have earned a reputation for excellence by creating products of superior value and quality, providing personalized customer service and emphasizing on-time deliveries. Our success has always been the direct result of our fully integrated range of valve, actuator and control products. Rugged and reliable, our products are engineered to provide years of trouble free service.

Bray manufacturing facilities are certified to ISO 9001 quality standards, assuring product quality, precision manufacturing and internal process integrity.

Bray is committed to customer support. Our extensively trained staff is knowledgeable of all Bray products and their applications and can provide personal attention to every customer. To serve you locally Bray maintains a factory certified sales and service network, for all Bray products, throughout the world.

## COMMITMENT TO QUALITY

Bray International recognizes that our customers make us successful and they have a choice of many manufacturers when selecting valves, actuators and accessories for their applications. Since many manufacturers have access to the same materials of construction for these products, Bray believes that a customer's purchase decision is heavily influenced by the following key factors:

- Trust in the Manufacturer
- Confidence in the Quality Assurance and Integrity of the Manufacturer
- Proven Industry Experience
- Features and Benefits of the product
- Cost of Ownership
- Customer Service
- Delivery

*"Bray is focused on and committed to meeting the expectations and needs of our customers while continually improving the effectiveness of our quality management."*

# TRIPLE OFFSET / DOUBLE OFFSET BUTTERFLY VALVES



## BRAY TRI LOK® Triple Offset Valve

**HIGH PRESSURE • ZERO LEAKAGE • METAL TO METAL SEALING**

### 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.

### STEM

Tri Lok's unique splined disc-to-stem connection minimizes hysteresis, eliminates external connections and allows for easy assembly and disassembly. Tri Lok features a one piece stem with a blow out prevention ring located outside the pressure boundary, in accordance with international standards.

### PACKING

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

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



## BRAY/McCANNALOK Double Offset Butterfly Valve

**HIGH PRESSURE & TEMPERATURE**

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

<b>Size Range:</b>	2 1/2" – 66" (65mm – 1650mm)	
<b>Body Style:</b>	Wafer, Lug, Double Flanged	
<b>Temperature Range:</b>	-320°F to 900°F (-196°C to 482°C)	
<b>Pressure Rating:</b>	ASME Class 150, 300 and 600	
<b>Shut Off Class:</b>	Zero Leakage	
<b>Body Materials:</b>	Carbon Steel, Stainless Steel, Nickel Aluminum Bronze	
<b>Disc Materials:</b>	Stainless Steel, Nickel Aluminum Bronze	
<b>Stem Materials:</b>	Stainless Steel, Monel® K500	
<b>Seat Materials:</b>	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
<b>Applications:</b>	High Pressure, High Temperature, Low Temperature, Cryogenic Service, Critical Service	

# RESILIENT SEATED BUTTERFLY VALVES

## SERIES 20/21

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



## SERIES 22/23

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



## SERIES 30/31

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



## SERIES 31H

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



# RESILIENT SEATED BUTTERFLY VALVES



## SERIES 31U

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



## SERIES 3A/3AH

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



## SERIES 32/33 & 35/36

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



## SERIES 36H

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

## SERIES 35F

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



## SERIES 39L

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



## 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



## V-CONTROL

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



## SERIES 19 SEGMENTED

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



## FLANGED SERIES F15/F30, RF15/RF30

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



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

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



## TRUNNION SERIES

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



## TRIAD SERIES

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



## SERIES 7000 / 8000

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



## SERIES 5000 / 6000

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





## MICRO PURE SERIES

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



## THREADED SERIES S85

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



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

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



## CRYOGENIC SERVICE

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

## SERIES M1 - SEVERE SERVICE

<b>Design Standards:</b>	ASME B16.34 ASME Section VIII - Div 1, Appendix 2
<b>Sizes:</b>	½ - 36 in. (DN 15 - 900), custom and larger sizes upon request
<b>Pressure Ratings:</b>	ASME 150 - 4500, custom higher pressures upon request
<b>Temperature:</b>	Standard design rated up to 1100 °F (593 °C), can be customized for higher temperatures
<b>End Connections:</b>	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
<b>End-To-End:</b>	ASME B16.10 (Long Pattern)
<b>Testing:</b>	MSS SP-61, API 598, ANSI/FCI Class VI Custom Tests available
<b>Critical Applications:</b>	Refining, Power Generation, Mining, Chemical, Synthetic Fuels, Petrochemical



## SERIES M4 - SEVERE SERVICE

<b>Size Range:</b>	NPS ½ - 2½ SW or BW - DN 15 - 65, NPS 3 & 4 BW - DN 80 & 100
<b>Bore Sizes:</b>	0.63", 1.03", 1.56"
<b>Body Materials:</b>	A105, A182-F22 Cl.3, A182-F91
<b>Ball Materials:</b>	410 SS/HVOF Chromium Carbide, Inconel® 718/Fused Chromium Carbide
<b>Seat Materials:</b>	410 SS/HVOF Chromium Carbide, Inconel® 718/HVOF Chromium Carbide
<b>Pressure Ratings:</b>	ASME 1700, 3100, 4500 ½" thru 2½", Limited Class 3" and 4" Standard Class
<b>Temperature:</b>	Up to 1100°F (593°C)
<b>End Connections:</b>	SW per ASME B16.11, BW per ASME B16.25
<b>Design Standards:</b>	ASME B16.34, Bore sizes per ASME TDP-1
<b>Testing:</b>	Meets and exceeds API 598, or per customer request
<b>Characteristics:</b>	On/Off, Zero Leakage
<b>Applications:</b>	High Pressure and Temperature Steam





## SERIES 740 Bidirectional Knife Gate Valves

<b>Size Range:</b>	2" - 36" (50 - 900mm)	<b>Body Materials:</b>	CF8, CF8M, WCB
<b>Pressure Rating:</b>	2"-24" 150psi (10bar), 30"-36" 100psi (7bar)	<b>Gate Materials:</b>	304, 316SS
<b>Body Style:</b>	One-piece (Wafer, Lug)	<b>Seat Materials:</b>	Buna-N
<b>Design:</b>	MSS SP-81	<b>Packing Materials:</b>	PTFE impregnated synthetic fiber
<b>Testing:</b>	MSS SP-81		
<b>Face-to-face:</b>	MSS SP-81	<b>Actuator Options:</b>	Handwheel Bevel Gear Pneumatic Hydraulic Electric
<b>Certification:</b>	Canadian CRN		
<b>Drilling:</b>	ASME B16.5 CL150, ASME B16.47 CL150		
<b>Applications:</b>	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

<b>Size Range:</b>	2" to 24" (50 - 600mm)	<b>Body Materials:</b>	Ductile Iron
<b>Pressure Rating:</b>	240psi (16bar)	<b>Gate Materials:</b>	316SS
<b>Body Style:</b>	One-piece (Wafer)	<b>Liner Materials:</b>	Polyurethane
<b>Design:</b>	Manufacturer Standard	<b>Packing Materials:</b>	PTFE impregnated synthetic fiber
<b>Testing:</b>	MSS SP-81		
<b>Face-to-face:</b>	MSS SP-81	<b>Actuator Options:</b>	Handwheel Bevel Gear Pneumatic Hydraulic Electric
<b>Drilling:</b>	ASME B16.5 CL150		
<b>Applications:</b>	On/off service handling corrosive or abrasive media in pulp & paper, chemical, mining and power applications.		

## SERIES 755 Bidirectional Urethane Lined Slurry Valves

<b>Size Range:</b>	2" to 24" (50 - 600mm)	<b>Body Materials:</b>	CF8, CF8M, WCB, DI
<b>Pressure Rating:</b>	150psi (10bar), 240psi (16bar), 300psi (20bar)	<b>Gate Materials:</b>	304, 316SS
<b>Body Style:</b>	Two-piece bolted (Wafer)	<b>Seat Materials:</b>	Buna-N
<b>Design:</b>	Manufacturer Standard	<b>Packing Materials:</b>	PTFE impregnated synthetic fiber
<b>Testing:</b>	MSS SP-81		
<b>Face-to-face:</b>	MSS SP-81	<b>Actuator Options:</b>	Handwheel Bevel Gear Pneumatic Hydraulic Electric
<b>Certification:</b>	Canadian CRN		
<b>Drilling:</b>	ASME B16.5 CL150		
<b>Applications:</b>	Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.		

## SERIES 760 Bidirectional Heavy Duty Slurry Valves

<b>Size Range:</b>	2" - 30" (50 - 750mm)	<b>Body Materials:</b>	Ductile Iron
<b>Pressure Rating:</b>	2"-24" 100psi (7bar), 30" 75psi (5bar)	<b>Gate Materials:</b>	304SS
<b>Body Style:</b>	Two-piece bolted (Flanged)	<b>Seat Materials:</b>	Natural Rubber
<b>Design:</b>	Manufacturer Standard	<b>Wiper Materials:</b>	Polyurethane
<b>Testing:</b>	MSS SP-81		
<b>Face-to-face:</b>	Per Industry Standard	<b>Actuator Options:</b>	Handwheel Bevel Gear Pneumatic Hydraulic Electric
<b>Certification:</b>	Canadian CRN		
<b>Drilling:</b>	ASME B16.5 CL150, ASME B16.47 CL150		
<b>Applications:</b>	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

<b>Size Range:</b>	3" to 24" (80 - 600mm)	<b>Body Materials:</b>	Ductile Iron
<b>Pressure Rating:</b>	240psi (16bar)	<b>Gate Materials:</b>	316SS
<b>Body Style:</b>	Two-piece bolted (Flanged)	<b>Seat Materials:</b>	Natural Rubber
<b>Design:</b>	Manufacturer Standard	<b>Wiper Materials:</b>	Polyurethane
<b>Testing:</b>	MSS SP-81		
<b>Face-to-face:</b>	Per Industry Standard	<b>Actuator Options:</b>	Handwheel Bevel Gear Pneumatic Hydraulic Electric
<b>Drilling:</b>	ASME B16.5 CL150		
<b>Applications:</b>	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

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

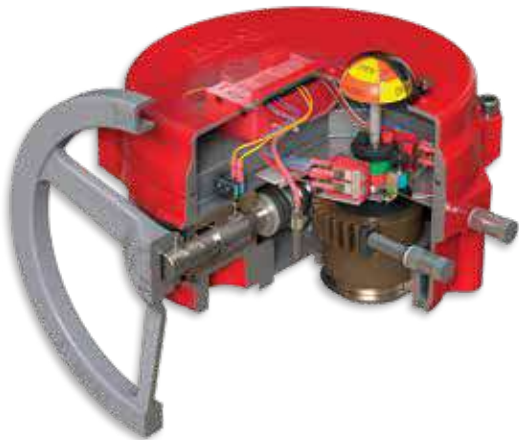
<b>Size Range:</b>	3" to 30" (80 - 750mm)	<b>Body Materials:</b>	Ductile Iron
<b>Pressure Rating:</b>	3"-24" 375psi (25bar), 26"-30" 300psi (20bar)	<b>Gate Materials:</b>	316SS
<b>Body Style:</b>	Two-piece bolted (Wafer)	<b>Seat Materials:</b>	Natural Rubber
<b>Design:</b>	Manufacturer Standard	<b>Wiper Materials:</b>	Polyurethane
<b>Testing:</b>	MSS SP-81 / MSS SP-135		
<b>Face-to-face:</b>	Per Industry Standard	<b>Actuator Options:</b>	Handwheel Bevel Gear Pneumatic Hydraulic Electric
<b>Drilling:</b>	ASME B16.5 CL300 ASME B16.47 CL300		
<b>Applications:</b>	High pressure on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.		



## SERIES 940 Unidirectional Knife Gate Valves

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

<b>Torque:</b>	300 to 18,000 lb-ins (34 to 2030 Nm)
<b>Voltage:</b>	VAC: 24, 120, 220, VDC: 12, 24
<b>Standard Enclosure:</b>	NEMA Type 4, 4X
<b>Explosion Proof:</b>	NEMA Type 4, 4X, 7, 9 Class I, Div 1 & 2, Group C, D Class II, Div 1 & 2, Group E, F, and G.



## SERIES 92/93 PNEUMATIC ACTUATOR

**Bray rack and pinion actuators available in double acting and spring return**

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

<b>Torque:</b>	Double Acting up to: 44,130 lb-in (4,986 Nm) Spring End Torque up to: 14,173 lb-in (1,601 Nm)	
<b>Pressure Range:</b>	40 - 140 psi (2.8 - 10 bar)	
<b>Media:</b>	Dry Compressed Air/Inert Gas*	
<b>Temperature Range:</b>	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)



Extreme High Temperature Actuator



Stainless Steel Actuator



## SERIES 98 SCOTCH YOKE PNEUMATIC ACTUATOR

**Bray scotch yoke actuator for quarter turn rotary operation**

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

<b>Torque:</b>	Double Acting up to:	885,000 lb-in (100,000 Nm)
	Spring Return (Spring End) up to:	445,261 lb-in (50,306 Nm)
<b>Pressure Range:</b>	40 - 150 psi (2.8 - 10.3 bar)	
<b>Media:</b>	Dry Compressed Air/Inert Gas*	
<b>Temperature Range:</b>	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)

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



### **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 P/P 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 & SERIES 5B VALVE STATUS MONITORS**

- Discrete status monitor for quarter turn rotary actuators
- NEMA 4, 4X and IP66 and IP67 ingress protection
- 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 HIGH FLOW 3 & 4 WAY 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

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