BRAY INTERNATIONAL

PRODUCT PROFILE

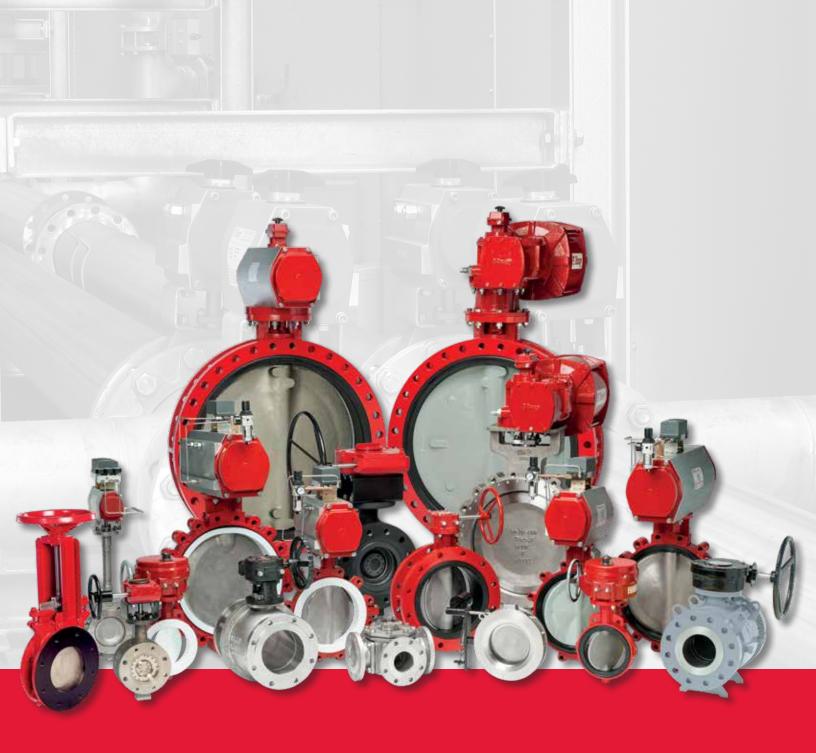






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INTRODUCTION

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."















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.

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.

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

Size Range:	3" - 48" (80mm - 1200mm)	
Body Style:	Wafer, Lug, Double Flanged, 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:	410 Stainless Steel, 17-4PH, XM-19 (Nitronic®)	
Body Seat Materials:	316SS Hardened	
Disc Seal Materials:	Laminated 318 Stainless Steel/Graphite Laminated 316 Stainless Steel/Graphite	
Applications: 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.

Size Range:	2 1/2" - 66"	2 1/2" - 66" (65mm - 1650mm)		
Body Style:	Wafer, Lug, Do	Wafer, Lug, Double Flanged		
Temperature Range:	-320°F to 900	-320°F to 900°F (-196°C to 482°C)		
Pressure Rating:	ASME Class 1	50, 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			
	Standard	RPTFE with Resilient Energizer PTFE with Resilient Energizer		
	Fire Safe	RPTFE and Inconel® with Resilient Energizer		
Seat Materials:	Polar®	Engineered Thermoplastic		
	Metal Seat	Inconel®		
	Low Temp.	TFM with Resilient Energizer		
Applications: High Pressure, High Temperature, Low Temperature Cryoqenic Service, Critical Service				

SERIES 20/21

	<u> </u>	
Size Range:	1" - 20" (25mm - 500mm)	
Body Style:	Wafer, Lug	
Temperature Range:	-20°F to 400°F (-29°C to 204°C)	
Dunnan Datin	Bidirectional Bubble Tight Shut Off	150 psi (10.3 bar)
Pressure Ratings:	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 M	olded over SS
Seat Materials:	BUNA-N, EPDM, PTFE Lined EPDM, FKM, Polyurethane	
Applications:	Sanitary Service, Mildly Corrosive, Toxic Media, Oth	ner Liquids and Gases



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)	
Durane Batinana	Bidirectional Bubble Tight Shut Off	150 psi (10.3 bar)
Pressure Ratings:	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	



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)
Pressure Ratiligs.	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:	BUNA-N, EPDM, 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)	
Droccuro Patinger	Bidirectional Bubble Tight Shut Off	250 psi (17.2 bar)
Pressure Ratings:	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 BUNA-N, Bonded EPDM	
Applications:	High Pressure, HVAC, Dead End Service	



5 Bray









SERIES 31U

Size Range:	2" - 12" (50mm - 300mm)	
Body Style:	Lug	
Temperature Range:	0°F to 212°F (-18°C to 100°C)	
Dragging Datings	Bidirectional Bubble Tight Shut Off	285 psi (20 bar)
Pressure Ratings:	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	

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)		
December 1	Bidirectional Bubble Tight Shut Off	250 psi (17.2 bar)	
Pressure Ratings:	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 BUNA-N, Bonded EPDM, Bonded FKM*		
Applications:	Water, Wastewater, Seawater, 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)	
Dungarina Datingar	Bidirectional Bubble Tight Shut Off	150 psi (10.3 bar)
Pressure Ratings:	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:	BUNA-N, EPDM, 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)	
D D.A.	Bidirectional Bubble Tight Shut Off	232 psi (16 bar)
Pressure Ratings:	Body CWP	250 psi (17.2 bar)
Body Materials:	Ductile Iron	
Disc Materials:	Nylon 11 Coated Ductile Iron, 316 Stainless Steel, Alu	minum Bronze
Stem Materials:	17-4 PH Stainless Steel	
Seat Materials:	Bonded BUNA-N, Bonded EPDM	
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)	
Duranus Batinasa	Bidirectional Bubble Tight Shut Off	75 psi (5.2 bar)
Pressure Ratings:	Body CWP	250 psi (17.2 bar)
Body Materials:	Cast Iron, Ductile Iron, Hastelloy®	
Disc Materials:	Duplex Stainless Steel, Super Austenitic Stainless Ste	eel, Hastelloy [®]
Stem Materials:	Stainless Steel	
Seat Materials:	Bonded BUNA-N, Bonded EPDM	
Applications:	FGD, Mining, Seawater	



SERIES 39L

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:	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**

Flow-Tek.





Ports:	V-Port (Standard 15°, 30°, 60° & 90°, Custom and Slotted Ports), Full, Standard Port			
Body Style:	Flanged, 3 Piece	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 - 30	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	3 & 4 Way		
Size Range:	1/4" - 12" (8mm - 300	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			



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 - 100m	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	Full Port		
Body Style:	3 Piece			
Size Range:	1/4" - 12" (8mm - 300	1/4" – 12" (8mm - 300mm)		
Temperature Range:	-50°F to 550°F(-46°C to	-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		

Flow-Tek.





Port:	Tube Bore			
Body Style:	3 Piece			
Size Range:	1/2" - 4" (15mm - 100	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 - 80n	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

311111	
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

SERIES M1 - SEVERE SERVICE

Design Standards:	ASME B16.34 ASME Section VIII - Div 1, Appendix 2	
Sizes:	1/2 - 36 in. (DN 15 - 900), custom and larger sizes upon request	
Pressure Ratings:	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 ½ - 2½ 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 ½" thru ½", 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/VAAS.







SERIES 740 Bidirectional Knife Gate Valves

Size Range:	2" - 36" (50 - 900mm)	Body Materials:	CF8, CF8M, WCB
Pressure Rating:	2"-24" 150psi (10bar), 30"-36" 100psi (7bar)	Opsi (7bar) Gate Materials: 304, 316SS	
Body Style:	One-piece (Wafer, Lug)	Seat Materials:	Buna-N
Design:	MSS SP-81	De alaire e Masteriale.	PTFE impregnated
Testing:	MSS SP-81	Packing Materials:	synthetic fiber
Face-to-face:	MSS SP-81		Handwheel Bevel Gear
Certification:	Canadian CRN	Actuator Options:	Pneumatic
Drilling:	ASME B16.5 CL150, ASME B16.47 CL150		Hydraulic Electric
Applications:	On/off service and isolation of clean, dirty, corrosive cand wastewater applications.	or viscous media in pulp &	paper, chemical, mining, power

SERIES 746 Bidirectional Polyurethane Lined Slurry Valves

Size Range:	2" to 24" (50 - 600mm) Body Materials: Ductile Iron		Ductile Iron
Pressure Rating:	240psi (16bar)	Gate Materials: 316SS	
Body Style:	One-piece (Wafer)	Liner Materials: Polyurethane	
Design:	Manufacturer Standard	Packing Materials	PTFE impregnated
Testing:	MSS SP-81	Packing Materials:	synthetic fiber
Face-to-face:	MSS SP-81		Handwheel Bayel Coor
Drilling:	ASME B16.5 CL150	Actuator Options:	Bevel Gear Pneumatic Hydraulic Electric
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)	ar) Gate Materials: 304, 316SS	
Body Style:	Two-piece bolted (Wafer)	Seat Materials: Buna-N	
Design:	Manufacturer Standard	Dodring Materials	PTFE impregnated
Testing:	MSS SP-81	Packing Materials:	synthetic fiber
Face-to-face:	MSS SP-81		Handwheel
Certification:	Canadian CRN	Actuator Options:	Bevel Gear Pneumatic
Drilling:	ASME B16.5 CL150		Hydraulic Electric
Applications:	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

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

	<u> </u>		
Size Range:	3" to 24" (80 - 600mm)	Body Materials:	Ductile Iron
Pressure Rating:	240psi (16bar)	Gate Materials:	316SS
Body Style:	Two-piece bolted (Flanged)	Seat Materials:	Natural Rubber
Design:	Manufacturer Standard	Mr Mark . dala	D.I. d
Testing:	MSS SP-81	Wiper Materials:	Polyurethane
Face-to-face:	Per Industry Standard		Handwheel
Drilling:	ASME B16.5 CL150	Actuator Options:	Bevel Gear Pneumatic Hydraulic Electric
Applications:	Heavy-duty on/off service and isolation of dirty, co and power applications.	orrosive, abrasive or viscou	is media in chemical, mining

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	380 84 2.1	EDD.M
Testing:	MSS SP-81	Wiper Material:	EPDM
Face-to-face:	MSS SP-81		Handwheel Bevel Gear
Certification:	Canadian CRN	Actuator Options:	Pneumatic
Drilling:	ASME B16.5 CL150		Hydraulic Electric
Applications:	Heavy-duty on/off service and isolation of dirty, c and power applications.	orrosive, abrasive or viscou	us media in chemical, mining

SERIES 767 Bidirectional High Pressure Slurry Valves

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

Size Range:	2" to 36" (50 - 900mm)	Body Materials:	CF8, CF8M, WCB
Pressure Rating:	2"-24" 150psi (10bar), 30"-36" 100psi (7bar)		316, 304SS
Body Style:	One-piece (Lug) Seat Materials: Integral		Integral
Design:	MSS SP-81	Da alaina Matariala	PTFE Impregnated
Testing:	MSS SP-81	Packing Materials:	synthetic fiber
Face-to-face:	MSS SP-81		Handwheel
Certification:	Canadian CRN	Actuator Options: Bevel Gear Pneumatic	Pneumatic
Drilling:	ASME B16.5 CL150, ASME B16.47 CL150		Hydraulic Electric
Applications:	General purpose on/off service and isolation of clean, dirty, corrosive, abrasive, viscous and high temperatur 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)
- Manual declutchable handwheel
- High visibility dome position indicator
- Network protocols available

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









Stainless Steel Actuator

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
- Seacorr coating for harsh environments
- Integral porting
- Internal bidirectional travel stops
- SIL 3 capable

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)	



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)		

^{*}Contact Factory for other media or non-standard temperature range.

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



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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