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# PRODUCT PROFILE

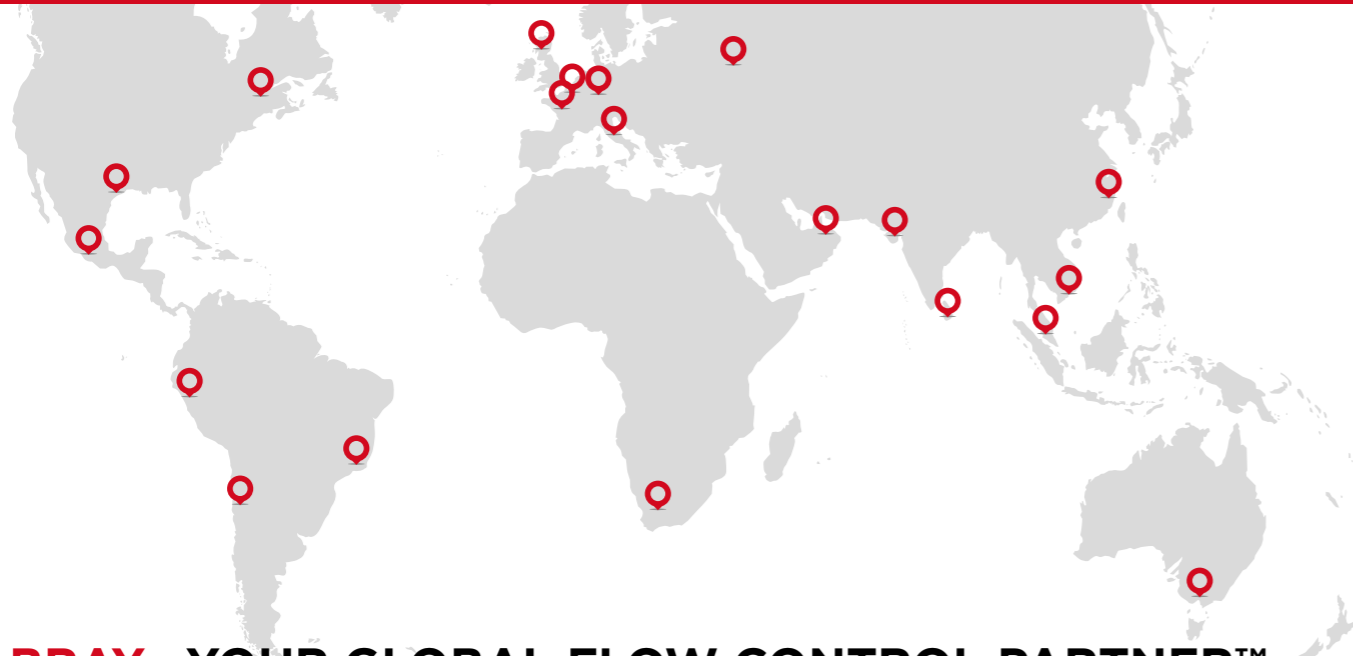
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**Bray**<sup>®</sup>

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YOUR GLOBAL FLOW CONTROL PARTNER™



### BRAY · YOUR GLOBAL FLOW CONTROL PARTNER™

At Bray International, Inc., our business is helping our customers with their flow control requirements. Our modular product line of butterfly, ball 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 personalised customer service and emphasising ontime 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 in all aspects of Bray's products and their applications and provide personal attention to every customer. To serve you locally, each region maintains a factory certified sales and service network for all Bray International products.

#### COMMITMENT TO QUALITY

Bray International recognises 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
- > Delivery
- > Customer service
- > Cost of Ownership

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

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Pressure/Temperature ratings and material availability depend on valve size and series. Additional materials for your specific application are available on request. Please contact us for the specific requirements and material selection for your intended application.




**RESILIENT SEATED BUTTERFLY VALVE  
SERIES 20/21**

<b>Size Range</b>	DN 25 - DN 500 (1" - 20")
<b>Body Style</b>	Wafer, Lug
<b>Temperature Range</b>	-29°C to 204°C
<b>Flange Connection</b>	PN 10, PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 10 bar
<b>Body Materials</b>	Ductile Iron, Cast Iron, Stainless Steel
<b>Disc/Stem Materials</b>	Stainless Steel, EPDM/Stainless Steel, PTFE/Stainless Steel, BUNA-N/Stainless Steel,
<b>Seat Materials</b>	BUNA-N, EPDM, PTFE-lined EPDM, FKM*, Polyurethane
<b>Applications</b>	Sanitary Service, light corrosive, Toxic Media


**RESILIENT SEATED BUTTERFLY VALVE  
SERIES 31H**

<b>Size Range</b>	DN 50 - DN 500 (2" - 20")
<b>Body Style</b>	Lug
<b>Temperature Range</b>	-29°C to 121°C
<b>Flange Connection</b>	PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 16 bar
<b>Body Materials</b>	Ductile Iron, Cast Iron
<b>Disc Materials</b>	Nylon-11-coated Ductile Iron, Aluminium 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 VALVE  
SERIES 22/23**

<b>Size Range</b>	DN 50 - DN 600 (2" - 24")
<b>Body Style</b>	Wafer, Lug
<b>Temperature Range</b>	-18°C to 200°C
<b>Flange Connection</b>	PN 10, PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 10 bar
<b>Body Materials</b>	Ductile Iron, Carbon Steel, Stainless Steel
<b>Disc/Stem Materials</b>	Stainless Steel, PTFE/Stainless Steel, UHMWPE/Stainless Steel, UHMWPE/Ductile Iron, Hastelloy*, Titanium, PFA/Stainless Steel
<b>Seat Materials</b>	PTFE, Conductive PTFE, UHMWPE
<b>Applications</b>	Highly Corrosive, Toxic Media, Acids


**RESILIENT SEATED BUTTERFLY VALVE  
SERIES 31U**

<b>Size Range</b>	DN 50 - DN 300 (2" - 12")
<b>Body Style</b>	Lug
<b>Temperature Range</b>	-18°C to 100°C
<b>Flange Connection</b>	PN 25, PN 40, ANSI Class 150
<b>Operating Pressure</b>	Max. 20 bar
<b>Body Materials</b>	Ductile Iron, Carbon Steel, Nickel-Aluminium Bronze
<b>Disc Materials</b>	Stainless Steel, Nickel-Aluminium 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


**RESILIENT SEATED BUTTERFLY VALVE  
SERIES 30/31**

<b>Size Range</b>	DN 50 - DN 500 (2" - 20")
<b>Body Style</b>	Wafer, Lug
<b>Temperature Range</b>	-29°C to 204°C
<b>Flange Connection</b>	PN 10, PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 12 bar (DN 50 - DN 300) Max. 10 bar (DN 350 - DN 500)
<b>Body Materials</b>	Ductile Iron, Cast Iron, Carbon Steel
<b>Disc Materials</b>	Nylon-11-coated Ductile Iron, Aluminium 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
<b>Applications</b>	Potable Water, Wastewater, Seawater, HVAC


**RESILIENT SEATED BUTTERFLY VALVE  
SERIES 3A/3AH**

<b>Size Range</b>	DN 50 - DN 600 (2" - 24")
<b>Body Style</b>	Double Flanged
<b>Temperature Range</b>	-29°C to 204°C
<b>Flange Connection</b>	PN 10, PN 16, ANSI Class 150
<b>Operating Pressure</b>	S3A: 12 bar; S3AH 16 bar
<b>Body Materials</b>	Ductile Iron, Cast Iron, Carbon Steel
<b>Disc Materials</b>	Nylon-11-coated Ductile Iron, Aluminium 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>	Wastewater, Seawater

\*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.  
Pressure/Temperature ratings and material availability depend on valve size and series.



### RESILIENT SEATED BUTTERFLY VALVE SERIES 32/33 & 35/36

Bray CONTROLS

<b>Size Range</b>	Series 32/33 DN 550 - DN 900 (22" - 36") Series 35/36 DN 550 - DN 3000 (22" - 120")
<b>Body Style</b>	Series 32/33: Wafer Series 35/36: Double Flanged
<b>Temperature Range</b>	-29°C to 204°C
<b>Flange Connection</b>	PN 10, PN 16, ANSI Class 150
<b>Operating Pressure</b>	5 bar, max. 10 bar
<b>Body Materials</b>	Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel
<b>Disc Materials</b>	Nylon-11-coated Ductile Iron, Al-Br, Stainless Steel, Duplex-Stainless Steel, Super Austenitic Stainless Steel, Hastelloy <sup>®</sup> , Monel <sup>®</sup>
<b>Stem Materials</b>	Stainless Steel, Duplex-Stainless Steel, Super Austenitic Stainless Steel, Monel <sup>®</sup>
<b>Seat Materials</b>	BUNA-N, EPDM, FKM <sup>*</sup>
<b>Applications</b>	Wastewater, Seawater



### RESILIENT SEATED BUTTERFLY VALVE SERIES 36H

Bray CONTROLS

<b>Size Range</b>	DN 600 - DN 1500 (22" - 60")
<b>Body Style</b>	Double Flange
<b>Temperature Range</b>	-29°C to 121°C
<b>Flange Connection</b>	PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 16 bar
<b>Body Materials</b>	Ductile Iron, Carbon Steel
<b>Disc Materials</b>	Nylon-11-coated Ductile Iron, 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 VALVE SERIES 35F

Bray CONTROLS

<b>Size Range</b>	DN 800 - DN 1500 (32" - 60")
<b>Body Style</b>	Double Flange
<b>Temperature Range</b>	-29°C to 121°C
<b>Flange Connection</b>	PN 10, PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 5 bar
<b>Body Materials</b>	Ductile Iron, Cast Iron
<b>Disc Materials</b>	Duplex-Stainless Steel, Super Austenitic Stainless Steel, Hastelloy <sup>®</sup> Steel, Hastelloy <sup>®</sup>
<b>Stem Materials</b>	Stainless Steel
<b>Seat Materials</b>	Bonded BUNA-N, Bonded EPDM
<b>Applications</b>	FDG, Mining, Seawater



### RESILIENT SEATED BUTTERFLY VALVE SERIES 39L · SLURRY CONTROL VALVE

Bray CONTROLS

<b>Size Range</b>	DN 50 - DN 500 (2" - 20")
<b>Body Style</b>	Wafer, Lug, Long Body
<b>Temperature Range</b>	-29°C to 150°C
<b>Flange Connection</b>	PN 16, ANSI Class 150
<b>Operating Pressure</b>	Max. 16 bar
<b>Body Materials</b>	Ductile Iron, Stainless Steel
<b>Disc Materials</b>	Chrome-Molly Iron (hardened), PSZ Ceramic (Partially Stabilised 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



### CHECK VALVE CHECK RITE



<b>Size Range:</b>	DN 25 - DN 1500 (1" - 60")
<b>Body Style</b>	Wafer
<b>Pressure Ratings</b>	PN 10/16/25/40/64/100 Class 125 - 2500 (API, DIN, BS, JIS classes available)
<b>Body Materials</b>	Cast Iron, Carbon Steel, Stainless Steel, Titanium
<b>Seat Materials</b>	BUNA-N, EPDM, PTFE, Viton <sup>®</sup> , Metal-seated
<b>Applications</b>	Universally deployed for pulsating flow conditions to reduce water hammer. Pump protection for desalination plants Water- and Wastewater Technology
<b>Options</b>	<ul style="list-style-type: none"> <li>&gt; Hydraulic- Pneumatic Speed Control</li> <li>&gt; PVC Body with external position indication lever</li> <li>&gt; Quick-closing function</li> <li>&gt; Limit Switch for automated control systems</li> <li>&gt; Counterweights</li> <li>&gt; Dual Weights</li> </ul>

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Hastelloy<sup>®</sup> is a registered trademark of Haynes International, Inc.  
Pressure/Temperature ratings and material availability depend on valve size and series.



**DOUBLE OFFSET BUTTERFLY VALVE** **Bray** CONTROLS  
**BRAY/MCCANNALOK · SERIES 40 – 45**

<b>Size Range</b>	2" – 60" (DN 50 – DN 1500)
<b>Body Style</b>	Wafer, Lug, Double Flanged
<b>Temperature Range</b>	-29°C to 260°C
<b>Pressure Ratings</b>	Class 150, 300, 600 (PN 10/16/25/40/64/100)
<b>Body Materials</b>	Carbon Steel, Stainless Steel, Nickel-Aluminium Bronze, Super-Duplex Stainless Steel
<b>Disc Materials</b>	Stainless Steel, Nickel-Aluminium Bronze, Super-Duplex Stainless Steel
<b>Stem Materials</b>	Stainless Steel, Monel® K500, Super-Duplex Stainless Steel
<b>Seat Materials</b>	RTFE with Resilient Energiser, PTFE with Resilient Energiser, Fire Safe – RTFE and Inconel® with Resilient Energiser
<b>Applications</b>	Steam, High Pressure, High Temperature, Critical Service



**TRIPLE OFFSET BUTTERFLY VALVE** **Bray** **Tri Lok**  
**TRI LOK®**

<b>Size Range</b>	3" – 48" (80mm – 1200mm)
<b>Body Style</b>	Wafer, Lug, Double Flanged
<b>Temperature Range</b>	-50°C to 450°C
<b>Pressure Ratings</b>	Class 150, 300, 600
<b>Body Materials</b>	Carbon Steel, Stainless Steel, Nickel-Aluminium Bronze, Super-Duplex Stainless Steel
<b>Disc Materials</b>	Carbon Steel, Stainless Steel, Nickel-Aluminium Bronze, Super-Duplex Stainless Steel
<b>Stem Materials</b>	Stainless Steel, Super-Duplex Stainless Steel
<b>Body Seat Materials</b>	Stainless Steel, Super-Duplex Stainless Steel, Stellite, Fire Safe
<b>Disc Seal Materials</b>	Laminated Stainless Steel/Graphite
<b>Applications</b>	Steam, High Pressure, Critical Services, Cryogenic Service

Pressure/Temperature ratings and material availability depend on valve size and series.



**DOUBLE OFFSET BUTTERFLY VALVE** **Bray** CONTROLS  
**BRAY/MCCANNALOK EN**

<b>Size Range</b>	DN 65 – DN 400 (larger sizes on request)
<b>Body Style</b>	Wafer, Lug
<b>Temperature Range</b>	-29°C to 260°C
<b>Pressure Ratings</b>	PN 10, PN 16, PN 25, PN 40
<b>Face-to-Face</b>	EN 558-1 Series 20, 25, 16
<b>Body Materials</b>	Stainless Steel (1.4408), Carbon Steel (1.0619)
<b>Disc Materials</b>	Stainless Steel (1.4408)
<b>Stem Materials</b>	Stainless Steel (1.4542)
<b>Seat Materials</b>	R-PTFE with Resilient Energiser, PTFE with Resilient Energiser
<b>Applications</b>	Steam, High Pressure, High Temperature, Critical Service



**DOUBLE OFFSET BUTTERFLY VALVE** **Bray** CONTROLS  
**SERIES 41-R**

<b>Size Range</b>	16" – 54" (400mm – 1400mm)
<b>Body Style</b>	Lug
<b>Temperature Range</b>	-29°C to 260°C
<b>Operating Pressure</b>	Max. 7 bar
<b>Body Materials</b>	Ductile Iron
<b>Disc Materials</b>	WCB with Stainless Steel Edge
<b>Stem Materials</b>	Stainless Steel
<b>Seat Materials</b>	RTFE
<b>Applications</b>	Low Pressure Steam, Hot Water, District Heating, Sugar Industry

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### FLANGED BALL VALVE SERIES RF15/RF30

FlowTek

<b>Ports</b>	Full/Standard Port
<b>Body Style</b>	1 Piece
<b>Size Range</b>	1" - 12" (50mm - 300mm)
<b>Temperature Range</b>	-46°C to 343°C
<b>Pressure Ratings</b>	ANSI Class 150, 300
<b>End Connections</b>	Flanged
<b>Body Materials</b>	Stainless Steel, Carbon Steel, Alloys
<b>Seat Materials</b>	Standard: TFM 1600, Fire Safe Optional: Tek-Fil, PEEK, UHMWPE, RPTFE, Metal, Cavity Fillers
<b>Applications</b>	Process, Tank Farms, Oil & Gas

### MODULATION BALL VALVE V-CONTROL

FlowTek



<b>Ports</b>	V-Port (Standard 15°, 30°, 60° and 90°, Custom and Slotted Ports Full/Standard Port)
<b>Body Style</b>	Flanged and 3 piece (Triad 7000/8000)
<b>Size Range</b>	DN 8 - DN 300 (¼" - 12")
<b>Temperature Range</b>	-46°C to 343°C
<b>Pressure Ratings</b>	PN 10, PN 16, PN 25, PN 40 ANSI Class 150, 300
<b>End Connections</b>	RF Flanged, Threaded, Socket Weld, Butt Weld, Extended Socket Weld or Butt Weld
<b>Body Materials</b>	Stainless Steel, Carbon Steel, Alloys
<b>Seat Materials</b>	Standard: Tek-Fil Optional: TFM 1600, UHMWPE, PEEK, Metal
<b>Applications</b>	Ideal control element in processing piping systems



### FLANGED BALL VALVE SERIES F15/F30

FlowTek

<b>Ports</b>	Full Port
<b>Body Style</b>	2 Piece
<b>Size Range</b>	½" - 12" (15mm - 300mm)
<b>Temperature Range</b>	-46°C to 343°C
<b>Pressure Ratings</b>	ANSI Class 150, 300
<b>End Connections</b>	Flanged
<b>Body Materials</b>	Stainless Steel, Carbon Steel, Alloys
<b>Seat Materials</b>	Standard: TFM 1600, Fire Safe Optional: Tek-Fil, PEEK, UHMWPE, RPTFE, Metal, Cavity Fillers
<b>Applications</b>	Process, Tank Farms, Oil & Gas



### SEGMENTED BALL VALVE SERIES 19

FlowTek

<b>Ports</b>	Full Port
<b>Body Style</b>	1 Piece
<b>Size Range</b>	1" - 12" (25mm - 300mm)
<b>Temperature Range</b>	-40°C to 260°C
<b>Pressure Ratings</b>	ANSI Class 150, 300, 600 (PN 16, PN 25, PN 50)
<b>End Connections</b>	Flangeless, ASME Class 150, 300, 600 Flanged
<b>Body Materials</b>	Stainless Steel, Carbon Steel, Optional Special Alloys
<b>Seat Materials</b>	Metal, Tek-Fil
<b>Applications</b>	Ideal control element in processing piping systems Paper, Pump & Slurry Isolation



### FLANGED BALL VALVE SERIES FD10-40

FlowTek

<b>Ports</b>	Full Port
<b>Body Style</b>	2 Piece
<b>Size Range</b>	DN 15 - DN 300
<b>Temperature Range</b>	-46°C to 343°C
<b>Pressure Ratings</b>	PN 10, PN 16, PN 25, PN 40
<b>End Connections</b>	Flanged
<b>Body Materials</b>	Stainless Steel (1.4408), Carbon Steel (1.0619)
<b>Seat Materials</b>	Standard: TFM 1600, Fire Safe Optional: Tek-Fil, PEEK, UHMWPE, RPTFE, Metal, Cavity Fillers
<b>Applications</b>	Process, Chemical & Pharma, Food & Beverage, Water Technology



### SEVERE SERVICE BALL VALVE SERIES M1/M4

FlowTek

<b>Ports</b>	Full & Standard/Reduced Port
<b>Body Style</b>	1 Piece, 2 Piece
<b>Size Range</b>	½" - 36" (15mm - 900mm)
<b>Temperature Range</b>	-46°C to 815°C
<b>Pressure Ratings</b>	ANSI Class 150, 300, 600, 900, 1500, 1700, 2500, 3100, 4500
<b>End Connections</b>	Flanged, Socket Weld, Butt Weld
<b>Body Materials</b>	Forged Stainless Steel, Forged Carbon Steel, Alloys
<b>Seat Materials</b>	Standard: Metal Seated HVOF Optional: Custom Seat Designs and Coatings
<b>Applications</b>	Critical & Severe Service, Oil & Gas, Power, Steam, Mining


**3 PIECE BALL VALVE  
SERIES 7000 & 8000**
**FlowTek**

<b>Ports</b>	Full Port
<b>Body Style</b>	3 Piece
<b>Size Range</b>	DN 8 - DN 300 (¼" - 12")
<b>Temperature Range</b>	-46°C to 343°C
<b>Operating Pressure</b>	DN 8 - DN 100 (¼" - 4"), Max. 69 bar DN 150 - DN 300 (6" - 12"), Max. 27 bar
<b>End Connections</b>	Threaded, Socket Weld, Butt Weld, Flanged, Extended Socket Weld or Butt Weld
<b>Body Materials</b>	7000: Stainless Steel 8000: Carbon Steel
<b>Seat Materials</b>	Standard: TFM 1600 Optional: RPTFE, Tek-Fil <sup>®</sup> , UHMWPE, Cavity Fillers
<b>Applications</b>	Process, OEM Equipment, General Service

**3 PIECE BALL VALVE  
TRIAD SERIES**
**FlowTek**


<b>Ports</b>	Full/Standard Port
<b>Body Style</b>	3 piece
<b>Size Range</b>	DN 8 - DN 100 (¼" - 4")
<b>Temperature Range</b>	-46°C to 343°C
<b>Operating Pressure</b>	Max. 138 bar to Max. 344 bar (Triad-HP)
<b>End Connections</b>	Treaded, Socket Weld, Butt Weld, Flanged, Extended Socket Weld or Butt Weld
<b>Body Materials</b>	Stainless Steel, Carbon Steel, Alloys
<b>Seat Materials</b>	Standard: TFM 1600, Fire Safe Optional: Tek-Fil <sup>®</sup> , PEEK, UHMWPE, RPTFE, Metal, Cavity Fillers
<b>Applications</b>	Process, Steam, Fire Safe, Industrial Gases, Critical Service

**CRYOGENIC SERVICE BALL VALVE  
CRYOGENIC SERVICE**
**FlowTek**


<b>Ports</b>	Full/Standard Port
<b>Body Style</b>	3 Piece, Flanged
<b>Size Range</b>	¼" - 4" (8mm - 100mm)
<b>Temperature Range</b>	-196°C to 260°C
<b>Pressure Ratings</b>	ANSI 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>	TFM 1600
<b>Applications</b>	Production, Transport and Storage of Liquefied Gases


**UNI-DIRECTIONAL KNIFE GATE VALVE  
SERIES 950**
**Bray / VAAS**

<b>Body Style</b>	Wafer, Semi-Lug (1 Piece)
<b>Size Range</b>	DN 50 - DN 1200 (2" - 48")
<b>Temperature Range</b>	Max. 232°C
<b>Flange Connection</b>	PN 10, PN 16 (ANSI Class 150)
<b>Operating Pressure</b>	DN 50 - DN 600 (2" - 24"), Max. 10 bar DN 750 - DN 1200 (30" - 48"), Max. 7 bar
<b>Face-to-Face</b>	MSS SP-81
<b>Actuation</b>	Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
<b>Body Materials</b>	Ductile Iron, Carbon Steel, Stainless Steel
<b>Gate Materials</b>	Stainless Steel, Duplex-Stainless Steel, Hastelloy <sup>®</sup> C, Monel <sup>®</sup> , Titanium
<b>Seat Materials</b>	Buna-N, EPDM, Viton <sup>®</sup> , PTFE, Metal, no dead pockets


**BI-DIRECTIONAL KNIFE GATE VALVE  
SERIES 740**
**Bray / VAAS**

<b>Body Style</b>	Wafer, Lug (1 Piece)
<b>Size Range</b>	DN 50 - DN 900 (2" - 36")
<b>Temperature Range</b>	Max. 200°C
<b>Flange Connection</b>	PN 10, PN 16 (ANSI Class 150)
<b>Operating Pressure</b>	DN 50 - DN 600 (2" - 24"), Max. 10 bar DN 750 - DN 900 (30" - 36"), Max. 7 bar
<b>Face-to-Face</b>	MSS SP-81
<b>Actuation</b>	Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
<b>Body Materials</b>	Ductile Iron, Carbon Steel, Stainless Steel
<b>Gate Materials</b>	Stainless Steel, Duplex-Stainless Steel, Hastelloy <sup>®</sup> C, Monel <sup>®</sup> , Titanium
<b>Seat Materials</b>	Buna-N, EPDM, Viton <sup>®</sup>


**BI-DIRECTIONAL KNIFE GATE VALVE  
SERIES 752 - HEAVY DUTY**
**Bray / VAAS**

<b>Body Style</b>	Wafer, Lug (1 Piece)
<b>Size Range</b>	DN 50 - DN 900 (2" - 36")
<b>Temperature Range</b>	Max. 200°C
<b>Flange Connection</b>	PN 10, PN 16 (ANSI Class 150)
<b>Operating Pressure</b>	Max. 10 bar; Optional: 16 bar, 20 bar
<b>Face-to-Face</b>	MSS SP-81
<b>Actuation</b>	Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
<b>Body Materials</b>	Ductile Iron, Stainless Steel
<b>Gate Materials</b>	Stainless Steel, Alloys
<b>Seat Materials</b>	Buna-N, EPDM, Viton <sup>®</sup>

 Hastelloy<sup>®</sup> is a registered trademark of Haynes International, Inc.

### PNEUMATIC ACTUATOR SERIES 92/93

Bray CONTROLS



<b>Torque Range</b>	5.6 to 4,968 Nm, 5.5 bar
<b>Operating Pressure</b>	Max. 10 bar
<b>Temperature Range</b>	Standard: -29°C to 95°C Low: -40°C to 80°C High: -18°C to 149°C
<b>Rotation</b>	Series 92 · double-acting: 90°, 135°, 180° Series 93 · single-acting: 90°
<b>Travel Stop</b>	90° +/- 5°
<b>Interface</b>	EN ISO 5211, NAMUR (VDI/ VDE 3845 compatible) Standard: Double D Optional: Star/Square drive
<b>Materials</b>	Extruded Aluminium, Anodised 316 Stainless Steel, Electroless Nickel Plated Body Exterior, Hard Anodised Body Exterior, Seacorr Coated Body Exterior
<b>Certification</b>	ATEX, PED

### SCOTCH-YOKE PNEUMATIC ACTUATOR SERIES 98

Bray CONTROLS



<b>Torque Range</b>	450 to 100,000 Nm
<b>Operating Pressure</b>	3 - 10 bar
<b>Temperature Range</b>	Standard: -29°C to 93°C Low: to -46°C High: to 149°C
<b>Yoke</b>	Symmetric or Canted
<b>Travel Stop</b>	90° +/- 5° or +/- 3°
<b>Interface</b>	EN ISO 5211, NAMUR (VDI/ VDE 3845 compatible)
<b>Enclosure</b>	IP66/IP67M (IEC 60529)
<b>Certification</b>	ATEX, SIL 3, PED on request

### ELECTRIC ACTUATOR SERIES 70

Bray CONTROLS



<b>Torque Range</b>	34 to 2,030 Nm
<b>Temperature Range</b>	-40°C to 65°C
<b>Voltage</b>	AC: 24, 120, 220 DC: 12, 24
<b>Rotation</b>	90°
<b>Interface</b>	EN ISO 5211
<b>Standard Enclosure</b>	NEMA 4, 4X (IP 65)
<b>Exposure Proof</b>	NEMA 4, 4X, 7 and 9

### MANUAL OPERATORS: SERIES 01 HANDLE & NOTCH PLATE



### MANUAL OPERATORS: SERIES 04 GEAR OPERATOR



### MANUAL OPERATORS: SERIES 05 DECLUTCHABLE GEAR OPERATOR



### ACCESSORIES: SERIES 50 VALVE STATUS MONITOR



### ACCESSORIES: SERIES 52 VALVE STATUS MONITOR



### ACCESSORIES: SERIES 63 SOLENOID VALVES



### ACCESSORIES: SERIES 6A ELECTRO- PNEUMATIC POSITIONER



### ACCESSORIES SERIAL BUS COMMUNICATION



Please contact us for the specific requirements and material selection for your intended application.





YOUR GLOBAL FLOW CONTROL PARTNER™



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