At Bray our business is helping our customers with their flow control requirements. Our modular product line 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 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.

Bray 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
- 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.”
BI-DIRECTIONAL
KNIFE GATE VALVES

SERIES 740

<table>
<thead>
<tr>
<th>Size Range</th>
<th>DN 50 – DN 900 (2” – 36”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Wafer, Lug (1 Piece)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>max. 200°C</td>
</tr>
<tr>
<td>Flange Connection</td>
<td>PN 10, PN 16, ANSI Class 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>DN 50 – DN 600 (2” – 24”), max. 10 bar</td>
</tr>
<tr>
<td>DN 750 – DN 900 (30” – 36”), max. 7 bar</td>
<td></td>
</tr>
<tr>
<td>Face-to-Face</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Actuation</td>
<td>Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/PED, ATEX, GOST, Canadian CRN</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Ductile Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel</td>
</tr>
<tr>
<td>Gate Materials</td>
<td>Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>Buna-N, EPDM, Viton®</td>
</tr>
</tbody>
</table>

Application: Engineered for on/off service and isolation of clean, dirty, corrosive or viscous media in pulp & paper, chemical, mining, power and wastewater applications. e.g. Raw & Treated Water, Liquor Service, Paper Stock.

SERIES 745

<table>
<thead>
<tr>
<th>Size Range</th>
<th>DN 50 – DN 600 (2” – 24”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Wafer, Lug (1 Piece)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>max. 80°C</td>
</tr>
<tr>
<td>Flange Connection</td>
<td>PN 10, PN 16, ANSI Class 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>DN 50 – DN 600 (2” – 24”), max. 10 bar</td>
</tr>
<tr>
<td>Face-to-Face</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Actuation</td>
<td>Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric</td>
</tr>
<tr>
<td>Certification</td>
<td>ATEX, GOST, Canadian CRN</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Gate Materials</td>
<td>Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>Polyurethane</td>
</tr>
</tbody>
</table>

Application: Engineered for on/off service and isolation of viscous, corrosive and abrasive media in chemical and mining applications. e.g. Slurries, Cyclone Separation.

BI-DIRECTIONAL · SLURRY VALVES

SERIES 746

<table>
<thead>
<tr>
<th>Size Range</th>
<th>DN 50 – DN 1500 (2” – 60”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Wafer (1 Piece)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>max. 80°C</td>
</tr>
<tr>
<td>Flange Connection</td>
<td>ANSI Class 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>DN 50 – DN 600 (2” – 24”), max. 16 bar</td>
</tr>
<tr>
<td>DN 650 – DN 1500 (26” – 60”), max. 10 bar</td>
<td></td>
</tr>
<tr>
<td>Face-to-Face</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Actuation</td>
<td>Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric</td>
</tr>
<tr>
<td>Certification</td>
<td>ATEX, GOST</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel</td>
</tr>
<tr>
<td>Gate Materials</td>
<td>Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>Polyurethane</td>
</tr>
</tbody>
</table>

Application: Engineered for on/off service handling corrosive or abrasive media in pulp & paper, chemical, mining and power applications.

SERIES 752

<table>
<thead>
<tr>
<th>Size Range</th>
<th>DN 50 – DN 900 (2” – 36”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Wafer (2 Piece bolted)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>max. 200°C</td>
</tr>
<tr>
<td>Flange Connection</td>
<td>PN 10, PN 16, ANSI Class 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>max. 10 bar</td>
</tr>
<tr>
<td>Optional: 16bar, 20 bar</td>
<td></td>
</tr>
<tr>
<td>Face-to-Face</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Actuation</td>
<td>Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/PED, ATEX, GOST, Canadian CRN</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel</td>
</tr>
<tr>
<td>Gate Materials</td>
<td>Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>Buna-N, EPDM, Viton®</td>
</tr>
</tbody>
</table>

Application: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.
BI-DIRECTIONAL · SLURRY VALVE
SERIES 755

Size Range: DN 50 – DN 600 (2” – 24”)
Body Style: Wafer (2 Piece bolted)
Temperature Range: max. 200°C
Flange Connection: PN 10, PN 16, ANSI Class 150
Operating Pressure: max. 10 bar
Actuation: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
Testing: MSS SP-81
Certification: CE/PED, ATEX, GOST, Canadian CRN
Body Materials: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
Gate Materials: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
Seat Materials: Buna-N, EPDM, Viton®, Urethane bore liner, full Urethane optional
Application: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

BI-DIRECTIONAL · SLURRY VALVE
SERIES 760

Size Range: DN 50 – DN 600 (2” – 24”)
Body Style: Flanged (2 Piece bolted)
Temperature Range: max. 120°C
Flange Connection: PN 10, PN 16, ANSI Class 150
Operating Pressure: max. 10 bar
Actuation: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
Testing: MSS SP-81
Certification: ATEX, GOST, Canadian CRN
Body Materials: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
Gate Materials: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
Seat Materials: Natural Rubber, Buna-N, EPDM
Application: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

BI-DIRECTIONAL · SLURRY VALVE
SERIES 762

Size Range: DN 80 – DN 600 (3” – 24”)
Body Style: Flanged (2 Piece bolted)
Temperature Range: max. 200°C
Flange Connection: PN 10, PN 16, ANSI Class 150
Operating Pressure: max. 16 bar
Actuation: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
Testing: MSS SP-81
Certification: ATEX, GOST
Body Materials: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
Gate Materials: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
Seat Materials: Natural Rubber
Application: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

BI-DIRECTIONAL · SLURRY VALVE
SERIES 765

Size Range: DN 50 – DN 600 (2” – 24”)
Body Style: Wafer (2 Piece bolted)
Temperature Range: max. 200°C
Flange Connection: PN 10, PN 16, ANSI Class 150
Operating Pressure: DN 50 – DN 400 (2” – 16”), max. 10 bar
DN 450 – DN 600 (18” – 24”), max. 6 bar
Actuation: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
Testing: MSS SP-81
Certification: ATEX, GOST, Canadian CRN
Body Materials: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
Gate Materials: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
Seat Materials: Natural Rubber, EPDM
Application: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.
## BI-DIRECTIONAL · SLURRY VALVE
### SERIES 766
- **Size Range**: DN 80 – DN 600 (3” – 24”)
- **Body Style**: Wafer (1 Piece)
- **Temperature Range**: max. 200°C
- **Flange Connection**: PN 10, PN 16, ANSI Class 150
- **Operating Pressure**: max. 10 bar
- **Face-to-Face**: MSS SP-81
- **Actuation**: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
- **Testing**: MSS SP-81
- **Certification**: ATEX
- **Body Materials**: Ductile Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
- **Gate Materials**: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
- **Seat Materials**: Natural Rubber, EPDM
- **Application**: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

## BI-DIRECTIONAL · SLURRY VALVE
### SERIES 767
- **Size Range**: DN 80 – DN 900 (3” – 36”)
- **Body Style**: Wafer (2 Piece bolted)
- **Temperature Range**: max. 200°C
- **Flange Connection**: ANSI Class 150
- **Operating Pressure**: DN 80 – DN 900 (3” – 36”), max. 50 bar
- **Face-to-Face**: per industry standard
- **Actuation**: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
- **Testing**: MSS SP-81, MSS SP-815
- **Certification**: ATEX, GOST
- **Body Materials**: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
- **Gate Materials**: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
- **Seat Materials**: Natural Rubber, EPDM
- **Application**: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

## BI-DIRECTIONAL · SLURRY VALVE
### SERIES 768
- **Size Range**: DN 50 – DN 1500 (2” – 60”)
- **Body Style**: Wafer (2 Piece bolted)
- **Temperature Range**: max. 200°C
- **Flange Connection**: PN 10, PN 16, ANSI Class 150
- **Operating Pressure**: DN 50 – DN 600 (2” – 24”), max. 16 bar
- **Face-to-Face**: MSS SP-81
- **Actuation**: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
- **Testing**: MSS SP-81
- **Certification**: ATEX, GOST
- **Body Materials**: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
- **Gate Materials**: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
- **Seat Materials**: Natural Rubber, Urethane, EPDM
- **Application**: Engineered for heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining and power applications.

## BI-DIRECTIONAL · O-PORTED GATE VALVE
### SERIES 770
- **Size Range**: DN 50 – DN 600 (2” – 24”)
- **Body Style**: Wafer (2 Piece bolted)
- **Temperature Range**: max. 120°C
- **Flange Connection**: PN 10, PN 16 ANSI Class 150
- **Operating Pressure**: DN 50 – DN 600 (2” – 24”), max. 10 bar
- **Face-to-Face**: MSS SP-81
- **Actuation**: Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric
- **Testing**: MSS SP-81
- **Certification**: ATEX, GOST, Canadian CRN
- **Body Materials**: Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel
- **Gate Materials**: Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium
- **Seat Materials**: EPDM
- **Application**: Engineered for on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining, power and high cycle applications. e.g. Phosphate Slurries, FGD Limestone Slurries, Pneumatic Conveying Systems.
## UNI-DIRECTIONAL · KNIFE GATE VALVES

### SERIES 940

<table>
<thead>
<tr>
<th>Size Range</th>
<th>DN 50 – DN 900 (2” – 36”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Single Piece, Wafer, Lug, (no dead pockets)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>max. 260°C</td>
</tr>
<tr>
<td>Flange Connection</td>
<td>PN 10, PN 16, ANSI Class 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>DN 50 – DN 600 (2” – 24”), max. 10 bar DN 750 – DN 900 (30” – 36”), max. 7 bar</td>
</tr>
<tr>
<td>Face-to-Face</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Actuation</td>
<td>Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric</td>
</tr>
<tr>
<td>Testing</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Certification</td>
<td>CE, PED, ATEX, GOST, Canadian CRN</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Ductile Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel</td>
</tr>
<tr>
<td>Gate Materials</td>
<td>Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>Buna-N, EPDM, Viton®, PTFE</td>
</tr>
<tr>
<td>Application</td>
<td>Engineered for general purpose on/off service and isolation of clean, dirty, corrosive, abrasive, viscous and high temperature media in power, mining, pulp &amp; paper, cement, carbon black and chemical applications.</td>
</tr>
</tbody>
</table>

### SERIES 950

<table>
<thead>
<tr>
<th>Size Range</th>
<th>DN 50 – DN 1200 (2” – 48”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Wafer, Semi-Lug (1 Piece), (no dead pockets)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>max. 260°C</td>
</tr>
<tr>
<td>Flange Connection</td>
<td>PN 10, PN 16, ANSI Class 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>DN 50 – DN 600 (2” – 24”), max. 10 bar DN 750 – DN 1200 (30” – 48”), max. 7 bar</td>
</tr>
<tr>
<td>Face-to-Face</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Actuation</td>
<td>Handwheel, Bevel Gear, Pneumatic, Hydraulic, Electric</td>
</tr>
<tr>
<td>Testing</td>
<td>MSS SP-81</td>
</tr>
<tr>
<td>Certification</td>
<td>CE, PED, ATEX, GOST, Canadian CRN</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Ductile Iron, Carbon Steel, Stainless Steel, Duplex-Stainless Steel</td>
</tr>
<tr>
<td>Gate Materials</td>
<td>Stainless Steel, Duplex-Stainless Steel, Hastelloy® C, Monel®, Titanium</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>Buna-N, EPDM, Viton®, PTFE</td>
</tr>
<tr>
<td>Application</td>
<td>Engineered for general purpose on/off service and isolation of clean, dirty, corrosive, abrasive, viscous and high temperature media in power, mining, pulp &amp; paper, cement, carbon black and chemical applications.</td>
</tr>
</tbody>
</table>

### MAXIMUM TEMPERATURE RANGE

<table>
<thead>
<tr>
<th>Packing Options</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTFE impregnated Synthetic Fiber</td>
<td>232°C</td>
</tr>
<tr>
<td>PTFE w/Buna-N Quad Seal</td>
<td>90°C</td>
</tr>
<tr>
<td>PTFE w/Viton® Quad Seal</td>
<td>200°C</td>
</tr>
<tr>
<td>EPDM Quad Seal</td>
<td>120°C</td>
</tr>
<tr>
<td>Pure-PTFE (Food Grade)</td>
<td>260°C</td>
</tr>
<tr>
<td>Copper Wiper^1</td>
<td>500°C</td>
</tr>
<tr>
<td>Graphite</td>
<td>650°C</td>
</tr>
<tr>
<td>Special</td>
<td>&gt; 850°C</td>
</tr>
</tbody>
</table>

^1 PTFE packing with energised elastomer.

^2 PTFE packing with copper wiper. Copper wiper not applicable for F752 / FSS

---

One-piece cast body design for rugged performance in applications ranging from general purpose to severe media handling.

Economical semi-lugged one-piece cast body for rugged performance in applications ranging from general purpose to severe media handling.
SEAT OPTIONS

SERIES 740
REPLACEABLE FLEXIBLE WIRE REINFORCED ELASTOMER SEAT

- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C
- Viton®: -26°C to 200°C

SERIES 752
REPLACEABLE STEEL REINFORCED ELASTOMER SEAT

- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C
- Viton®: -26°C to 200°C

SERIES 755
REPLACEABLE STEEL REINFORCED ELASTOMER SEAT

- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C
- Viton®: -26°C to 200°C

SERIES 760
TWIN ELASTOMER SEATS

- Natural Rubber: -51°C to 74°C
- EPDM: -54°C to 120°C

SERIES 762
TWIN ELASTOMER SEATS

- Natural Rubber: -51°C to 74°C
- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C

SERIES 765
TWIN ELASTOMER SEATS

- Natural Rubber: -51°C to 74°C
- EPDM: -54°C to 120°C

SERIES 766
TWIN ELASTOMER SEATS

- Natural Rubber: -51°C to 74°C
- EPDM: -54°C to 120°C

SERIES 767
TWIN ELASTOMER SEATS

- Natural Rubber: -51°C to 74°C
- EPDM: -54°C to 120°C

SERIES 768
TWIN ELASTOMER SEATS

- Natural Rubber: -51°C to 74°C
- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C

SERIES 770
REPLACEABLE STEEL REINFORCED ELASTOMER SEAT

- EPDM: -54°C to 120°C

SERIES 790
STANDARD INTEGRAL METAL SEAT AND OPTIONAL REPLACEABLE ZERO LEAKAGE RESILIENT SEAT

- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C
- Viton®: -26°C to 200°C
- PTFE: -148°C to 260°C

SERIES 950
STANDARD INTEGRAL METAL SEAT AND OPTIONAL REPLACEABLE ZERO LEAKAGE RESILIENT SEAT

- Buna-N: -37°C to 90°C
- EPDM: -54°C to 120°C
- Viton®: -26°C to 200°C
- PTFE: -148°C to 260°C
### ACTUATOR OPTIONS

- **Direct Mounted Handwheel**
- **Bevel Gear Actuator**
- **Electric Actuator**
- **Hydraulic Actuator**
- **Double Acting Pneumatic Actuator**
- **Pneumatic Failsafe**
- **Lever**
- **Chain Wheel**
- **Manual Override**
- **Lockout Open**
- **Gate Lock**
- **Deflection Cone**
- **Gate Guard**
- **Non-Rising Stem**

### ACCESSORIES

Note:
- Accessories illustrated in red.
- *In Europe Gate Guards are standard on all actuated knife gate valves.

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