# **SLURRYTUFF™ MAXI-CHECK**

# **BALL CHECK VALVES / ISOLATION VALVE**

MODELS I | H | L





#### A RELIABLE INVESTMENT

Bray's SlurryTuff™ brand includes the MAXI-CHECK line of **ball check valves and ball check isolation valves.** Available in high pressure high wear, low pressure & low wear and dual function check/isolation models. They are designed to prevent reverse flow, and in the case of the Model I, prevent reverse flow with isolation.



#### **OPERATING FEATURES**

Engineered for slurry service, MAXI-CHECK operating features include:

- > Full bore design provides unrestricted flow ensuring low pressure loss and minimum back pressure to seal.
- Large port prevents clogging.
- High-wear resistant seat and ball design offers large sealing area, to provide drip-tight sealing under all conditions.
- > Sinking ball design preferred for applications involving viscous liquids or slurries.
- > Self-cleaning the ball rotates during operation eliminating the risk of impurities adhering to the ball.
- > Fabricated design low weight and allows for inline repairs.
- > Operation suitable for horizontal or vertical applications.

### **OPERATING CONDITIONS**

- > Specifically designed for extreme applications, such as slurry, ash disposal, and mine dewatering that produce heavy scale (such as salts).
- > CWP of 7 to 150 bar (100 to 2175 psi).
- > Standard operating temperature up to 80°C (176°F).

#### **APPLICATIONS**

- Slurry pipelines
- Power plant ash disposal
- > Mine dewatering
- > Pipelines with scale

- > Cement plant
- > Pulp & paper
- Water & wastewater
- > High pressure pipelines





#### **SPECIFICATIONS**

| Non Return   Isolation   |
|--|
| DN 80 to 750   NPS 3 to 30   |
| Up to 80°C   Up to 176°F   |
| ANSI B16.5 Class 150/300/600 & 900<br>@ 65°C (150°F) Nominal       |
| Flanged ANSI B16.5 RF<br>Class 150/300/600 & 900 (or as requested) |
|  |

#### **DESIGN STANDARDS**

| Valve Design    | ASME B16.34       |
|-----------------|-------------------|
| Flange Drilling | ASME B16.5        |
| Process Piping  | ASME B31.3        |
| Testing         | AS 4037-1999      |
|                 | EN 12266 Pt 1 & 2 |
|                 | API 598           |
|                 |                   |

#### **NOTES**

- 1 ANSI 150 as standard, consult Bray for other pressure ratings.
- 2 All Bray valves are tested to 110% of rated pressure to ensure bubble-tight shutoff.
- 3 All international flanges available on request. Contact Bray for more information.

#### **CUSTOMIZABLE FOR YOUR NEEDS**

Long-lasting and maintenance-free, all MAXI-CHECK valves are built to **meet** and exceed the high demands of heavy duty slurry ball check valves. Optional configurations, materials, and linings allow customization to suit your specific requirements.

#### **MATERIALS & OPTIONS**

- > Body & outlet materials include carbon steel, 316/304 stainless steel. Optional: Duplex and super duplex stainless steel.
- > Exterior epoxy coatings suitable for highly aggressive environments.
- > Standard inner lining of natural rubber, with nitrile or bromobutyl options.
- Replaceable ball available in stainless steel, silica bronze/urethane-coated aluminum materials.
- Replaceable seat in 304 stainless steel or hardened carbon steel (matched to the ball).
- Drain/flush port in body.

## **HIGH PRESSURE SEAT, BALL & SEAL DESIGN**

For high-pressure applications over 35 bar, the Model H & Model I valves use a 40 SHORE hardness molded rubber annular seal.

Bubble tight shut-off is achieved by back pressure forcing the seal against the ball.

- 1 Shown with Silica bronze sinking ball.
- 2 Molded rubber annular seal.
- 3 Stainless steel seat.
- 4 High pressure O-ring seal.





#### **AVAILABLE MODELS**

### **MODEL I** | High Pressure • Dual Function

#### **Ball Check Valve with Isolation**

This valve features mechanical isolation ensuring the ball is held in the closed position. The valve comes fully lined with natural rubber, and polyurethane coated ball as standard. It can be configured to suit your particular service conditions with a choice of liner materials, ball types and actuation options.

(refer to page 5 for material options)

When the pump starts, the pressure forces the ball off the seat and into the tower. When the pump stops, the ball returns to the seat and is held in the closed position by the back pressure creating a positive seal. The valve can now be isolated using the bevel gear operator or actuator to mechanically hold the ball in the seat to achieve valve isolation.



NOTES

1 Valves shown mechanical isolation in the closed position

### **MODEL H | High Pressure • High Wear**

#### **Ball Check Valve**

The valve utilizes the same valve design as the fully-featured model I. However it does not provide valve isolation. The valve can be configured to suit your particular service conditions with a choice of liner materials and ball types. (refer to page 5 for material options)

### **MODEL L** | Low Pressure • Low Wear

#### **Ball Check Valve**

Robust, simple and cost-effective one-piece body. Designed with the same face to face dimensions as a swing check allows a direct replacement without the need for pipe modifications and spool pieces.

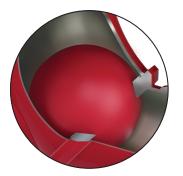
The valve comes unlined as standard.

However, rubber-lined is available on request.
Bubble tight shut-off is achieved by back pressure forcing the ball against the integral body steel seat.
The advantage of this compact design is a single moving part and no external components ensuring

moving part and no externa ongoing reliability.



NOTES
1 Valve shown on the closed position



NOTES
1 Valve shown on the closed position

## MATERIAL OPTIONS<sup>1</sup>







MODEL I MODEL H MODEL L

| Body &<br>Outlet Cover              | Fabricated Carbon Steel            |  |                                |  |  |  |  |  |
|-------------------------------------|------------------------------------|--|--------------------------------|--|--|--|--|--|
| Ball<br>(replaceable)               | Urethane Coated Aluminum           | Urethane Coated Aluminum                   | Urethane Coated Aluminum       |  |  |  |  |  |
|                                     | Stainless Steel*                   | Stainless Steel*                           | -                              |  |  |  |  |  |
| -                                   | Silica Bronze*                     | Silica Bronze*                             | -                              |  |  |  |  |  |
| Seat                                | 304 Stainless Steel                | 304 Stainless Steel                        | Carbon Steel (Non-replaceable) |  |  |  |  |  |
| (replaceable)                       | Hardened Carbon Steel              | Hardened Carbon Steel                      | _                              |  |  |  |  |  |
| High Pressure Seal<br>(replaceable) | Molded rubber (40 Shore hardness)# | Molded rubber (40 Shore hardness)#         | Carbon Steel (Non-replaceable) |  |  |  |  |  |
| Gasket                              | BS-N90 Shore O-r                   | ring (between body and outlet flange for h | igh-pressure seal)             |  |  |  |  |  |
| Fasteners                           |                                    | Class 8.8 Galvanised Carbon Steel          |                                |  |  |  |  |  |
| -                                   | Stainless Steel option as required |  |                                |  |  |  |  |  |
| Internal Lining                     | Natural Rubber                     |  |                                |  |  |  |  |  |
| •                                   | Nitrile                            |  |                                |  |  |  |  |  |
| -                                   | Bromobutyl                         |  |                                |  |  |  |  |  |
| Finish                              |                                    | Grit Blast 2.5 and two-part Epoxy Paint    |                                |  |  |  |  |  |

- 1 Other materials are available on request. Contact Bray for more information.
- \* Typically for high pressure applications >35 bar to withstand the mechanical forces. # For high pressure applications >35 bar.

## **FEATURES & BENEFITS | MODEL I**

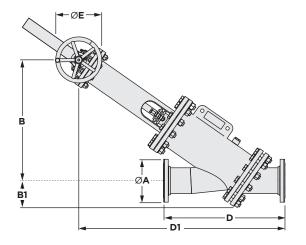
- ORIENTATION: Suitable for horizontal or vertical installations without any customization required.
- 2 CONSTRUCTION: Full bore design and simple construction ensures low pressure drop and minimum back pressure to seal.
- **3 BALL:** Self cleaning urethane-coated, aluminum core, stainless steel or silica bronze ball rotates with the flow, preventing scale build up.
- 4 PRIMARY SEAT: The seat is designed for full-bore flow, and constructed of material selected specifically for slurry and heavy-duty applications.
- 5 BODY: Fully fabricated from carbon steel for low weight and ease of customization. Lined with a choice of three materials.
- 6 ON-SITE INSPECTION: Removable bonnet flange for valve inspection, cleaning, or maintenance.
- **7 SEAL TO ATMOSPHERE:** Standard nitrile o-rings are used for a high-pressure seal.
- **8 END CONNECTION:** Available in a wide range of end connections, including ANSI and DIN.
- 9 BODY COATINGS: The external body have a minimum coat of 250 micron DFT. The body is coated with a hard, two-part epoxy paint, applied in a Bray standard red finish, that provides excellent corrosion and wear resistance.

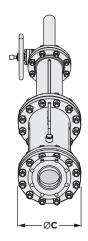
10 FASTENERS: Fasteners are high tensile galvanized carbon steel structural grade.

- 11 LABEL PLATE: The stainless steel label details valve model and serial numbers.
- 12 FLUSH PORT: Based on valve size, either  $\frac{1}{2}$  or 1 inch flush port is fitted to de-pressurise the valve during maintenance, or for flushing when required.
- 13 APPROVED LIFTING LUG: To aid during installation, or removal.
- 14 VALVE ISOLATION: Can be achieved with manual, pneumatic, hydraulic or electric actuation. Where the ball is mechanically held in the seat to achieve tight shut-off.



# **DIMENSIONS & WEIGHTS | MODEL I**





### ANSI CLASS 150 | 1960 kPa (mm | kg)

| Size<br>DN | ØA<br>mm | B<br>mm | B1<br>mm | ØC<br>mm | D<br>mm | D1<br>mm | ØE<br>mm | Wgt<br>(kg) |
|------------|----------|---------|----------|----------|---------|----------|----------|-------------|
| 80         | 190      | 455     | 452      | 254      | 490     | 708      | 300      | 155         |
| 100        | 228      | 555     | 133      | 280      | 640     | 841      | 300      | 170         |
| 150        | 280      | 740     | 138      | 406      | 780     | 1115     | 500      | 285         |
| 200        | 343      | 885     | 198      | 483      | 930     | 1325     | 500      | 370         |
| 250        | 406      | 972     | 219      | 533      | 1070    | 1510     | 500      | 475         |
| 300        | 483      | 1090    | 251      | 598      | 1120    | 1676     | 500      | 540         |
| 350        | 533      | 1210    | 330      | 635      | 1460    | 1965     | 500      | 720         |
| 400        | 598      | 1335    | 330      | 730      | 1680    | 2230     | 500      | 950         |
| 450        | 635      | 1495    | 367      | 813      | 1680    | 2365     | 500      | 1350        |
| 500        | 700      | 1653    | 375      | 850      | 1680    | 2526     | 500      | 1650        |
| 600        | 813      | 1960    | 435      | 935      | 1880    | 3000     | 500      | 2350        |

## ANSI CLASS 150 | 284 psi (inch | lb)

| Size<br>NPS | ØA<br>in | B<br>in | B1<br>in | ØC<br>in | D<br>in | D1<br>in | ØE<br>in | Wgt<br>(lb) |
|-------------|----------|---------|----------|----------|---------|----------|----------|-------------|
| 3           | 7.50     | 17.91   | 17.80    | 10.00    | 19.69   | 27.87    | 12.00    | 342         |
| 4           | 9.00     | 21.85   | 5.24     | 11.00    | 25.20   | 33.11    | 12.00    | 375         |
| 6           | 11.00    | 29.13   | 5.43     | 16.00    | 30.71   | 43.90    | 12.00    | 628         |
| 8           | 13.50    | 34.84   | 7.80     | 19.00    | 36.61   | 52.17    | 20.00    | 816         |
| 10          | 16.00    | 38.27   | 8.62     | 21.00    | 42.13   | 59.45    | 20.00    | 1047        |
| 12          | 19.00    | 42.91   | 9.88     | 23.50    | 44.09   | 65.98    | 20.00    | 1190        |
| 14          | 21.00    | 47.64   | 12.99    | 25.00    | 57.48   | 77.36    | 20.00    | 1587        |
| 16          | 23.50    | 52.56   | 12.99    | 28.75    | 66.14   | 87.80    | 20.00    | 2094        |
| 18          | 25.00    | 58.86   | 14.45    | 32.00    | 66.14   | 93.11    | 20.00    | 2976        |
| 20          | 27.50    | 65.08   | 14.76    | 33.50    | 66.14   | 99.45    | 20.00    | 3638        |
| 24          | 32.00    | 77.17   | 17.13    | 36.80    | 74.02   | 118.11   | 20.00    | 5181        |

- 1 1 Dimensions and weights do not include lining material.

  2 Contact Bray for other ANSI class rated
- valves.

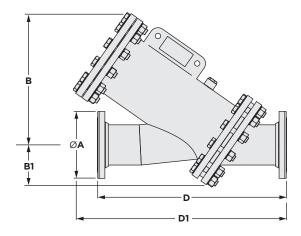
## **FEATURES & BENEFITS | MODEL H**

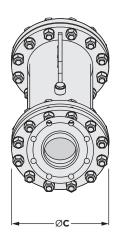
- ORIENTATION: Suitable for horizontal or vertical installations without any customization required.
- 2 CONSTRUCTION: Full bore design and simple construction ensures low pressure drop and minimum back pressure to seal.
- **3 BALL:** Self cleaning urethane-coated, aluminum core, stainless steel or silica bronze ball rotates with the flow, preventing scale build up.
- 4 PRIMARY SEAT: The seat is designed for full-bore flow, and constructed of material selected specifically for slurry and heavy-duty applications.
- **5 BODY:** Fully fabricated from carbon steel for low weight and ease of customization. Lined with a choice of three materials.
- 6 ON-SITE INSPECTION: Removable bonnet flange for valve inspection, cleaning, or maintenance.
- 7 SEAL TO ATMOSPHERE: Standard nitrile o-rings are used for a high-pressure seal.

- **8 END CONNECTION:** Available in a wide range of end connections, including ANSI and DIN.
- 9 BODY COATINGS: The external body have a minimum coat of 250 micron DFT. The body is coated with a hard, two-part epoxy paint, applied in a Bray standard red finish, that provides excellent corrosion and wear resistance.
- **10 FASTENERS:** Fasteners are high tensile galvanized carbon steel structural grade.
- 11 LABEL PLATE: The stainless steel label details valve model and serial numbers.
- 12 FLUSH PORT: Based on valve size, either  ${}^{1}\!/_{2}$  or 1 inch flush port is fitted to de-pressurise the valve during maintenance, or for flushing when required.
- **13 APPROVED LIFTING LUG:** To aid during installation, or removal.



## **DIMENSIONS & WEIGHTS | MODEL H**





### ANSI CLASS 150 | 1960 kPa (mm | kg)

| Size<br>DN | ØA<br>mm | B<br>mm | B1<br>mm | ØC<br>mm | D<br>mm | D1<br>mm | Wgt<br>(kg) |
|------------|----------|---------|----------|----------|---------|----------|-------------|
| 80         | 190      | 366     | 452      | 254      | 490     | 585      | 58          |
| 100        | 228      | 448     | 133      | 280      | 640     | 694      | 68          |
| 150        | 280      | 565     | 138      | 406      | 780     | 866      | 177         |
| 200        | 343      | 664     | 198      | 483      | 930     | 1005     | 262         |
| 250        | 406      | 714     | 219      | 533      | 1070    | 1140     | 360         |
| 300        | 483      | 790     | 251      | 598      | 1120    | 1246     | 425         |
| 350        | 533      | 866     | 330      | 635      | 1460    | 1470     | 600         |
| 400        | 598      | 948     | 330      | 730      | 1680    | 1675     | 825         |
| 450        | 635      | 1065    | 367      | 813      | 1680    | 1750     | 1020        |
| 500        | 700      | 1180    | 375      | 850      | 1680    | 1850     | 1150        |
| 600        | 813      | 1400    | 435      | 935      | 1880    | 2200     | 1950        |

ANSI CLASS 150 | 284 psi (inch | lb)

| Size<br>NPS | ØA<br>in | B<br>in | B1<br>in | ØC<br>in | D<br>in | D1<br>in | Wgt<br>(lb) |
|-------------|----------|---------|----------|----------|---------|----------|-------------|
| 3           | 7.50     | 14.41   | 17.80    | 10.00    | 19.29   | 23.03    | 128         |
| 4           | 9.00     | 17.64   | 5.24     | 11.00    | 25.20   | 27.32    | 150         |
| 6           | 11.00    | 22.24   | 5.43     | 16.00    | 30.71   | 34.09    | 390         |
| 8           | 13.50    | 26.14   | 7.80     | 19.00    | 36.61   | 39.57    | 578         |
| 10          | 16.00    | 28.11   | 8.62     | 21.00    | 42.13   | 44.88    | 794         |
| 12          | 19.00    | 31.10   | 9.88     | 23.50    | 44.09   | 49.06    | 937         |
| 14          | 21.00    | 34.09   | 12.99    | 25.00    | 57.48   | 57.87    | 1323        |
| 16          | 23.50    | 37.32   | 12.99    | 28.75    | 66.14   | 65.94    | 1819        |
| 18          | 25.00    | 41.93   | 14.45    | 32.00    | 66.14   | 68.9     | 2249        |
| 20          | 27.50    | 46.46   | 14.76    | 33.50    | 66.14   | 72.83    | 2535        |
| 24          | 32.00    | 55.12   | 17.13    | 36.80    | 74.02   | 86.61    | 4299        |

- 1 Dimensions and weights do not include lining material.
- 2 Dimensions shown are based on ANSI flanging, please consult Bray for other flange types.
- flange types.

  3 Contact Bray for other ANSI class rated valves.

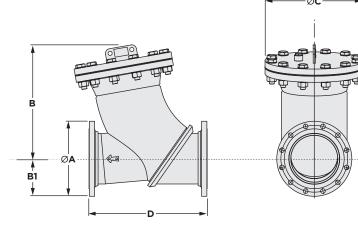
## **FEATURES & BENEFITS | MODEL L**

- ORIENTATION: Suitable for horizontal or vertical installations without any customization required.
- **2 CONSTRUCTION:** Full bore design and simple construction ensures low pressure drop and minimum back pressure to seal.
- **3 BALL:** Self cleaning urethane-coated, aluminum core, ball rotates with the flow, preventing scale build up.
- 4 SEAT: The seat is integral to the one piece fabricated body machined to suite the ball — creating a positive seal under all conditions. The seal is created by the urethane coating and the back pressure on the surface of the seat.
- 5 BODY: Fully fabricated from carbon steel for low weight and ease of customization. Lined with a choice of three materials.
- 6 ON-SITE INSPECTION: Removable bonnet flange for valve inspection, cleaning, or modification.
- **7 SEAL TO ATMOSPHERE:** Standard nitrile o-rings are used for a high-pressure seal.
- **8 END CONNECTION:** Available in a wide range of end connections, including AS, PN, ANSI and DIN.

- 9 BODY COATINGS: The internals (if not rubber lined) and external body have a minimum coat of 250 micron DFT. The body is coated with a hard, two-part epoxy paint, applied in a Bray standard red finish, that provides excellent corrosion and wear resistance.
- **10 FASTENERS:** Fasteners are high tensile galvanized carbon steel structural grade
- 11 LABEL PLATE: The stainless steel label details valve model and serial numbers.
- 12 FLUSH PORT: (Not shown) Based on valve size, either  $^{1}/_{2}$  or 1 inch flush port is fitted to de-pressurise the valve during maintenance, or for flushing when required
- 13 APPROVED LIFTING LUG: To aid during installation, or removal.



## **DIMENSIONS & WEIGHTS | MODEL L**



### ANSI CLASS 150 | 1960 kPa (mm | kg)

| Size<br>DN | ØA<br>mm | B<br>mm | B1<br>mm | ØC<br>mm | D<br>mm | Wgt<br>(kg) |
|------------|----------|---------|----------|----------|---------|-------------|
| 80         | 190      | 327     | 95       | 254      | 260     | 30          |
| 100        | 228      | 354     | 114      | 280      | 330     | 51          |
| 125        | 254      | 412     | 127      | 406      | 410     | 60          |
| 150        | 280      | 438     | 140      | 406      | 410     | 120         |
| 200        | 343      | 450     | 171.5    | 483      | 540     | 170         |
| 225        | 370      | 617     | 185      | 534      | 610     | 230         |
| 250        | 406      | 617     | 203      | 534      | 640     | 247         |
| 300        | 483      | 654     | 241.5    | 597      | 700     | 320         |
| 350        | 533      | 775     | 266.5    | 635      | 800     | 395         |
| 375        | 550      | 800     | 275      | 698      | 820     | 510         |
| 400        | 598      | 800     | 299      | 698      | 920     | 560         |
| 450        | 635      | 880     | 317.5    | 812      | 970     | 730         |
| 500        | 700      | 905     | 350      | 812      | 1070    | 975         |
| 600        | 813      | 933     | 406.5    | 927      | 1220    | 1325        |

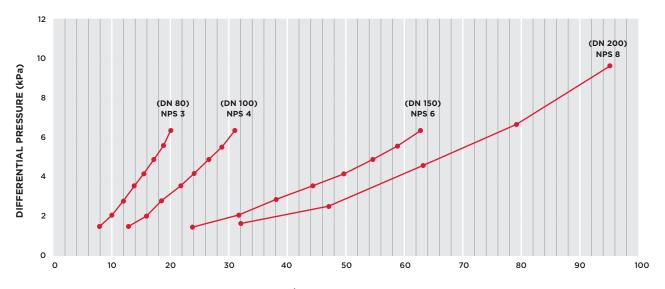
ANSI CLASS 150 | 284 psi (inch | lb)

| Size<br>NPS | ØA<br>in | B<br>in | B1<br>in | ØC<br>in | D<br>in | Wgt<br>(lb) |
|-------------|----------|---------|----------|----------|---------|-------------|
| 3           | 7.50     | 12.87   | 3.74     | 10.00    | 66.14   | 66          |
| 4           | 9.00     | 13.94   | 4.49     | 13.00    | 112.43  | 112         |
| 5           | 10.00    | 16.22   | 5.00     | 16.00    | 132.28  | 132         |
| 6           | 11.00    | 17.24   | 5.51     | 16.00    | 264.55  | 265         |
| 8           | 13.50    | 17.72   | 6.75     | 21.00    | 374.78  | 375         |
| 9           | 14.55    | 24.29   | 7.28     | 24.00    | 507.06  | 507         |
| 10          | 16.00    | 24.29   | 8.00     | 25.00    | 544.54  | 545         |
| 12          | 19.00    | 25.75   | 9.50     | 27.50    | 705.47  | 705         |
| 14          | 21.00    | 30.51   | 10.50    | 31.50    | 870.82  | 871         |
| 15          | 21.65    | 31.50   | 10.83    | 32.00    | 1124.35 | 1124        |
| 16          | 23.50    | 31.50   | 11.77    | 36.00    | 1234.58 | 1235        |
| 18          | 25.00    | 34.65   | 12.50    | 38.00    | 1609.36 | 1609        |
| 20          | 27.50    | 35.63   | 13.78    | 42.00    | 2149.49 | 2149        |
| 24          | 32.00    | 36.73   | 16.00    | 48.00    | 2921.10 | 2921        |

- 1 Dimensions and weights do not include lining material.
  2 Contact Bray for other ANSI class rated
- valves.

## PRESSURE DROP | MODELS H • L

DN 80 to 200 (NPS 3 to 8)



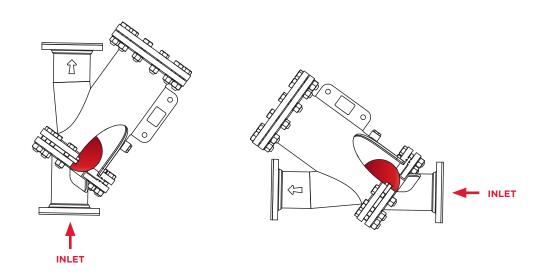
FLOW (L/sec) @15.6°C AT SEA LEVEL

## **INSTALLATION ORIENTATION | MODELS I • H • L**

The Maxi-Check valve is suitable for horizontal or vertical installations without any customization required.

### **VERTICAL INSTALLATION**

### HORIZONTAL INSTALLATION



#### NOTES

1 Model H illustrated.

2 Valve shown in the closed position.

## MEET THE OTHER MEMBERS OF THE SLURRYTUFF RANGE

The SLURRYTUFF™ range of products are designed for arduous applications. We can help with your abrasive, erosive, high pressure and corrosive applications.



## **EZI-VAC AIR RELEASE / VACUUM BREAK VALVES**

A range of air release and vacuum break valves. Available in single-acting, double-acting, and triple-acting models, the valves are designed to discharge large amounts of air from pipelines while being filled.



#### PENTA-WEDGE SLURRY WEDGE GATE ISOLATION VALVES

Fabricated construction with a resilient urethane-coated wedge. Designed with a self-flushing seat and tight shutoff with slurries, ash disposal, abrasive media where heavy scale build-up is present.

#### ISOLATION AND SHUT-OFF VALVES THAT FIT YOUR PROCESS

At Bray, we understand you are constantly faced with the need to safely and reliably isolate many different types of processes. To make this easier, Bray has an extensive isolation valve portfolio comprised of high-performance butterfly valves, ball valves, and knife gate valves. These valves are designed and tested to provide the reliability necessary to keep your processes operating at maximum efficiency.



# HIGH PERFORMANCE BUTTERFLY VALVES SERIES 40/42 & 41/43

A double offset butterfly valve features an innovative design that offers rugged reliability and bidirectional shutoff to full rated pressure.



# BIDIRECTIONAL KNIFE GATE VALVES SERIES 740

One-piece cast body with flexible wire reinforced elastomer seat for bidirectional zero leakage shutoff in a wide range of industrial applications.



# FLANGED BALL VALVES SERIES F15/F30

Two-piece body with floating ball design offers low torque and increased cycle life. An ideal solution for tight shutoff in a wide range of industrial applications.



# BIDIRECTIONAL SLURRY VALVES SERIES 768

Two-piece bolted body with twin elastomer seats and a push-through gate designed for bidirectional zero leakage shutoff with self cleaning in demanding slurries.

SINCE 1986, BRAY HAS PROVIDED FLOW CONTROL SOLUTIONS FOR A VARIETY OF INDUSTRIES AROUND THE WORLD.

VISIT **BRAY.COM** TO LEARN MORE ABOUT BRAY PRODUCTS AND LOCATIONS NEAR YOU.

#### **HEADQUARTERS**

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