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**SERIES 765**

# **BIDIRECTIONAL SLURRY VALVES**

2" to 12" 90psi (6.2bar)



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**Bray**<sup>®</sup>

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# FEATURES & BENEFITS

## DESIGN FEATURES

The Bray Series 765 is a bidirectional slurry valve, designed for demanding slurry applications. Twin elastomer seats and push-through gate design facilitate self-cleaning and prevent media build up.

The durable ductile iron body is offered in a compact wafer style. When fully open, the valve bore offers no resistance to line media.

- 1 Designed for easy, quick conversion between manual and pneumatic actuation. Featuring a lubricant injection port for continuous, smooth operation with minimal maintenance.
- 2 Secondary wiper seal extends gate life and prevents discharge from top of valve.
- 3 Metal-reinforced, elastomer sleeves provide energized, zero leakage shutoff in both directions.
- 4 In the open position, the energized sleeves shield all metal components from direct contact with the flowing process media.
- 5 Robust gate available in a wide range of corrosion resistant alloys to suit the application.
- 6 Unrestricted flow path with minimal pressure drop achieved through full port valve design for extended sleeve life.
- 7 Ample clearance for push-through allows complete gate closure.
- 8 Compact wafer body allows for easy installation and is drilled and tapped to ASME B16.5 CL150 flange patterns as standard. Other drilling options available upon request.
- 9 Drain plate with tapped purge ports provided as standard, allowing for safe discharge of media and easy flush water connection.
- 10 Protective rod boot/stem cover is standard on all sizes.
- 11 Upper stem protection is standard on all sizes.

## SPECIFICATIONS

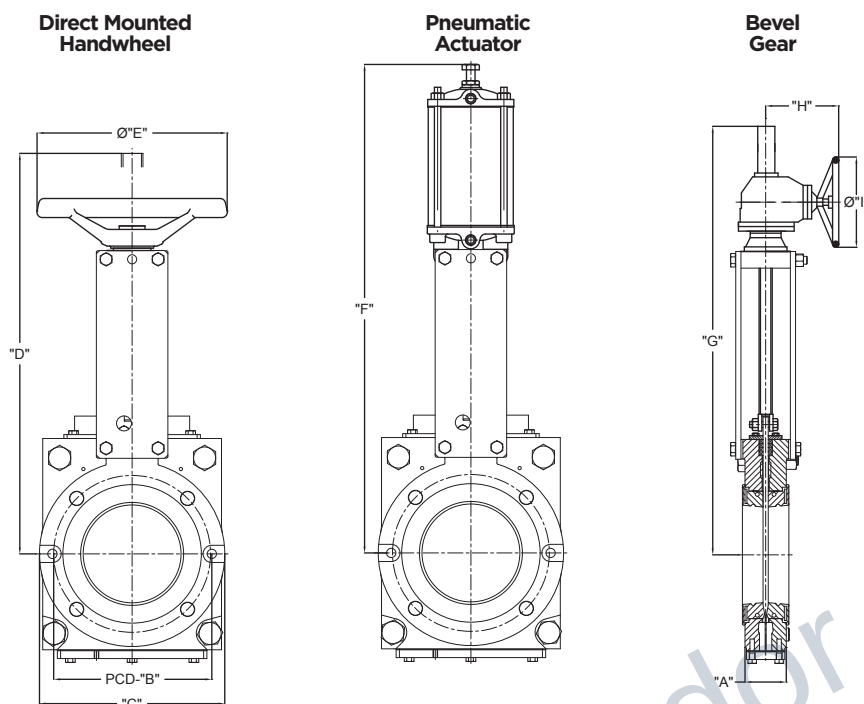
|                 |                          |
|-----------------|--------------------------|
| Size Range      | 2" to 12" (50 - 300mm)   |
| Pressure Rating | 90 psi (6.2bar)          |
| Body Style      | Two-piece bolted (Wafer) |

## STANDARDS

|               |                       |
|---------------|-----------------------|
| Design        | Manufacturer Standard |
| Testing       | Manufacturer Standard |
| Face-to-face  | MSS SP-81             |
| Certification | Canadian CRN          |
| Drilling*     | ASME B16.5 CL150      |

\*Additional drilling options available. Consult factory for availability.





#### DIMENSIONS (inch)

| Size | A    | B     | C     | D     | E     | F     | G     | H     | I     |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2    | 2.13 | 4.76  | 6.50  | 20.67 | 11.77 | 19.88 | --    | --    | --    |
| 3    | 2.24 | 6.02  | 7.87  | 23.62 | 11.77 | 27.56 | --    | --    | --    |
| 4    | 2.24 | 7.50  | 9.06  | 27.17 | 11.77 | 30.91 | --    | --    | --    |
| 6    | 2.52 | 9.50  | 11.22 | 33.07 | 15.98 | 39.17 | 34.65 | 11.65 | 20.00 |
| 8    | 2.99 | 11.75 | 13.58 | 38.19 | 20.00 | 51.57 | 46.85 | 12.05 | 20.00 |
| 10   | 2.99 | 14.25 | 15.94 | 44.88 | 20.00 | 51.57 | 46.85 | 12.05 | 20.00 |
| 12   | 3.27 | 17.01 | 19.09 | --    | --    | 59.76 | 52.56 | 12.05 | 20.00 |

#### DIMENSIONS (Millimeter)

| Size | A  | B   | C   | D    | E   | F    | G    | H   | I   |
|------|----|-----|-----|------|-----|------|------|-----|-----|
| 50   | 54 | 121 | 165 | 525  | 299 | 505  | --   | --  | --  |
| 80   | 57 | 153 | 200 | 600  | 299 | 700  | --   | --  | --  |
| 100  | 57 | 191 | 230 | 690  | 299 | 785  | --   | --  | --  |
| 150  | 64 | 241 | 285 | 840  | 406 | 995  | 880  | 296 | 508 |
| 200  | 76 | 299 | 345 | 970  | 508 | 1310 | 1190 | 306 | 508 |
| 250  | 76 | 362 | 405 | 1140 | 508 | 1310 | 1190 | 306 | 508 |
| 300  | 83 | 432 | 485 | --   | --  | 1518 | 1335 | 306 | 508 |

Dimensions are approximate and subject to change. Consult factory for certified drawings.  
Face-to-face mentioned above are installed dimensions, add 1/4" to 1/2" (6mm to 13mm) for ease of installation.

#### WEIGHTS (lbs)

| Size (in.)         | 2  | 3  | 4  | 6   | 8   | 10  | 12  |
|--------------------|----|----|----|-----|-----|-----|-----|
| Handwheel          | 40 | 47 | 64 | 95  | 172 | 214 | --- |
| Pneumatic Actuator | 62 | 77 | 93 | 123 | 265 | 302 | 463 |
| Gear Operator      | -- | -- | -- | --  | --  | 265 | 320 |

Approximate weight shown, consult factory for additional configurations

\*Consult factory for hydraulic and electric actuators dimensions.

#### STANDARD CONSTRUCTION

|               |                |
|---------------|----------------|
| Body          | Ductile Iron   |
| Gate          | 304            |
| Seat          | Natural Rubber |
| Stem          | 304            |
| Wiper Support | Carbon Steel   |
| Wiper         | EPDM           |
| Topworks      | Steel          |

#### GATE OPTIONS

|                        |
|------------------------|
| 316 Stainless Steel    |
| 317 Stainless Steel    |
| SAF 2507 Duplex        |
| SAF 2205 Duplex        |
| 17-4PH Stainless Steel |
| Hastelloy® C           |
| Monel®                 |

#### ACTUATOR OPTIONS

|                                              |
|----------------------------------------------|
| Direct Mounted Handwheel - Standard (2"-10") |
| Bevel Gear - Standard (12")                  |
| Pneumatic                                    |
| Hydraulic                                    |
| Electric                                     |

#### SEAT OPTIONS

|                |                       |
|----------------|-----------------------|
| Natural Rubber | -60°-165°F/-51°-74°C  |
| EPDM           | -65°-248°F/-54°-120°C |

Additional material options may be available upon request. Consult factory for availability.

#### WEIGHTS (kg)

| Size (mm)          | 50 | 80   | 100 | 150 | 200 | 250 | 300 |
|--------------------|----|------|-----|-----|-----|-----|-----|
| Handwheel          | 18 | 21.5 | 29  | 43  | 78  | 97  | --- |
| Pneumatic Actuator | 28 | 35   | 42  | 56  | 120 | 137 | 210 |
| Gear Operator      | -- | --   | --  | --  | --  | 120 | 145 |

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