



**Bray®**

**VALVES / ACTUATORS**  
COMPLETE PRODUCT LINE / BRAYLINE ACCESSORIES

DISTRIBUTOR

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 The High Performance Company

# VALVES

## RESILIENT SEATED

Bray Valve & Controls is proud to offer our high performance, highest quality product line. Through years of field application experience, research and development, we have designed products that meet the stringent requirements of today's fluid process industry. Bray offers a complete line of resilient seated butterfly valves for chemical, sanitary and general service applications. Rugged and reliable,

Bray valves are built to last. One unique feature is the international compatibility of our valves with most world flange standards.

Another feature is our *tongue-and-groove* seat design which provides complete isolation of flowing media from the Body and stem by a totally encasing design. Most standard bodies are epoxy coated insuring excellent corrosion and wear resistance to the valve's surface. All Bray valves have extended necks which allow for at least 2" piping insulation. Due to a modular concept of design, all Bray manual operators, pneumatic and electric actuators and Brayline Accessories can be directly mounted to Bray valves.



**SERIES 20/21** 25mm-500mm (1"-20") The Bray sanitary and chemical applications valve. This valve features a one-piece disc/stem. A thin profile disc provides a very high Cv and greater pressure recovery and superior abrasion and erosion resistance in slurry or dry media applications. The Series 20, a wafer version, and the Series 21 the companion lug, are both rated 10 bar (150 psi) for 25mm-300mm (1"-12") bodies and 7 bar (100 psi) for 350mm-500mm (14"-20") bodies. Dead end Service rating are 5 bar (75 psi), 50mm-300mm (2"-12"), and 3.5 bar (50 psi), 350mm-500mm (14"-20") bodies. The Split Body design makes field replacement of the Beat simple and fast.



316 Stainless Steel bodies, investment cast 25mm-150mm (1"-6") and Sand cast 200mm-300mm (8"-12"), in both wafer and lug styles are available. All Series 20/21 valves are available with 316 Stainless Steel or Hastelloy C disc/ stems and a variety of moulded disc/stem and Beat materials.



**SERIES 22/23** 50mm-300mm (2"-12") The Bray HPV-High Performance Valve is ideal for highly corrosive, conductive, abrasive and Ultra pure applications. PTFE, Conductive PTFE and UHMWPE seats and discs are available. Bray's patented sealing design provides bubble tight shut-off and absolute stem sealing capability. PTFE seats and encapsulated discs are molded from virgin, unfilled PTFE with a minimum of 3mm thickness. The HPV seats feature Computer designed, machined contours that reduce part wear by minimizing contact forces. The Series 22, a wafer version, and the Series 23, the companion lug, are rated for 10 bar (150 psi) service.



## SERIES 30/31 50mm-500mm (2"-20")

Bray's general purpose valve. This valve has a high strength through-stem design. Its precision double "D" disc to stem connection drives the disc without the need of screws or pins. This design allows for higher Cv, easy disassembly and reduced disc failure. The stem is retained in the Body by means of a S.S. retaining ring. The Series 30, a wafer version, and the Series 31 the companion lug, are both rated 12 bar (175 psi) for 50mm-300mm (2"-12") bodies and 10 bar (150 psi) for 350mm-500mm (14"-20") bodies. Dead end service ratings are 7 bar (100 psi) for 50mm-300mm (2"-12") bodies, and 5 bar (75 psi) for 350mm-500mm (14"20") bodies.



## SERIES 34 50mm-300mm (2"-12")

An economical lug valve for the HVAC and plumbing markets with many of the same features as the Series 30 valve. The Series 34 is designed for hot and cold water applications, treated or untreated on-off or throttling control - Isolation, flow Balance or diversion. Rated 12 bar (175 psi) to 7 bar (100 psi) for dead end Service.

### SERIES 32/33 600mm-900mm (24"-36")

Large diameter economical wafer valve. The Series 32 valve is rated 5 bar (75 psi), and the Series 33 valve is rated 10 bar (150 psi). [Photo not shown].



### SERIES 35/36 600mm-1200mm (24"-48")

Large diameter flanged valve. Features a through-stein design with adjustable packing and bubble-tight shutoff. The Series 35 valve is rated 5 bar (75 psi), and the Series 36 valve is rated 10 bar (150 psi).

## ACTUATORS

### SERIES 90/91 PNEUMATIC

Styling, strength, compactness and simplicity of design have been combined to produce the Best rotary actuator on the market today. Bray pneumatic actuators are rack and pinion, opposed-piston actuators available in two versions: double acting and spring return. They have a maximum pressure rating of 10 bar (140 psi) and a temperature range of -40°C (-40°F) to +95°C (+200°F). Offered for the first time to the industry are the unique acetal piston guides and rings which have a very low coefficient of friction and absorb the side thrusts



## OPERATORS

of the pistons. Other features include integral porting which reduces the cost of easily damaged tubing, position indicator and travel stop adjustment. To save both cost and space, the Series 91 spring return units are designed with the housing length



### SERIES 1 HANDLE & NOTCH PLATE KIT

For manual Operation, on-off and throttling Service. This quarter turn handle has a locking spring. The bolted notch plate allows positive disc position indication for 25mm-300mm (1"-12") valves.

### SERIES 4 GEAR OPERATOR

Self-locking for heavy duty Service. Manual Operation for on-Off and throttling use for 50mm-1200mm (2"-48") valves. Completely



weatherproof and self lubricated with position indicator and adjustable travel stop. Chainwheel accessory available.

the same as our double acting units. The Series 91 spring cartridges are inherently safe. The standard spring cartridge System is available for Services 3, 4, 5, 6 and 7 bar (40, 60, 80 and 100 psi). NAMUR Interface of air supply ports is available on all Series 90/91 actuators. In addition, Bray actuators comply with BS5840, ISO 5211 and VDI/VDE 3845 (NAMUR recommendations) dimensions and mount directly to Bray valves without using external linkages.



### SERIES 5 DECLUTCHABLE GEAR OPERATOR

For manual override of pneumatic actuators. During pneumatic Operation of the valve, the worm of the gear unit is disengaged. Should the valve require opening or closing in the event of power loss, manual rotation of the declutch lever will provide a camming action and engage the worm to the segmented worm gear. Reverse rotation of the lever will allow for disengagement of the unit. Excellent for Safe handling of spring return actuators. Available for SOmm900mm (2"-36") valves.

### Electric Actuators Switch boxes Positioners Solenoid Valves

Delivered from miscellaneous suppliers in accordance with customer request.

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