

**OVERVIEW**

The Bray Series 3W/3L features an optimized molded-in seat, a profiled disc sealing edge, and stem bearings. These features provide optimized performance and efficient automation solutions for a long cycle life without compromising bubble tight sealing.

**APPLICATIONS**

- > HVAC
- > Chilled Water
- > Desalination
- > Sour Gas (NACE)
- > Steam
- > Vacuum

**MEDIA**

- > Acids
- > Alkalis
- > Corrosive Chemicals
- > Dry Chlorine (Gas or Liquid)
- > Gases
- > Hydrogen
- > Oxygen
- > Water

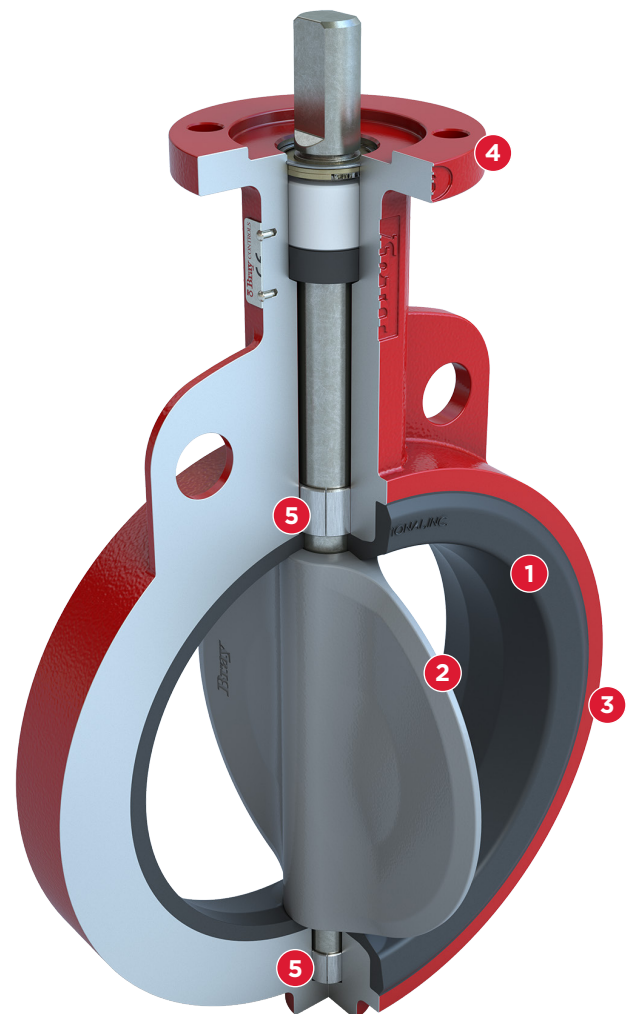
**SPECIFICATIONS**

<b>Size Range</b>	NPS 2 to 24	
	DN 50 to 600	
<b>Temperature Range</b>	-20°F to 250°F	
	-29°C to 121°C	
<b>Maximum Operating Pressure</b>	High Pressure Disc	250 psi 17.2 bar
	Standard Disc	NPS 2-12 (DN 50-300) 175 psi (12 bar)
		NPS 14-24 (DN 350-600) 150 psi (10.3 bar)
Low Pressure Disc	50 psi 3.4 bar	
<b>Body Style</b>	3W - One-piece wafer	
	3L - One-piece lug	
<b>Leakage Rate</b>	Bubble tight	
<b>Vacuum Rating</b>	1 to 0.001 micron	

**FEATURES AND BENEFITS**

The Series 3W/3L resilient seated butterfly valves offer:

- 1 MOLDED-IN SEAT:** Tightly controlled molding process produces accurate and repeatable dimensions, which leads to consistently lower torques over the valve's lifetime.
- 2 PRECISION PROFILED DISC SEALING EDGE:** Extends the valve life by reducing seat wear.
- 3 ROBUST FLANGE SEALING:** Tear-dropped shaped seat face enables tight sealing with a wide variety of industrial flanges.
- 4 ISO 5211 TOP FLANGE:** Direct mounting capability between the valve and Bray actuation reduces package height and complexity.
- 5 UPPER AND LOWER STEM BEARINGS:** Reduce operating torque and increase reliability in high cycle applications.
- 6 END OF LINE CAPABILITY:** Lug style valve allows for sealing at full rated pressure even when the downstream flange is removed.



**DESIGN STANDARDS**

	API 609 Category A
<b>Valve Design</b>	EN 593
	MSS SP-67
	ISO 5211
<b>Top Flange</b>	ASME B16.5 Class 125/150
	EN 1092-1 PN 6   10   16
	JIS 10K
	AS 2129 Table D & E
<b>Flange Drilling</b>	API 598
	EN 12266-1
	ISO 5208
	MSS SP-61
<b>Seat Tightness Test</b>	API 609
	EN 558 Series 20

**MATERIAL OPTIONS<sup>1</sup>**

<b>Body</b>	Cast Iron
	Ductile Iron
<b>Disc</b>	Nylon 11 Coated Ductile Iron
	316 Stainless Steel
	Aluminum Bronze
	Duplex Stainless Steel 4A
<b>Stem</b>	416 Stainless Steel
	Stainless Steel (EN 1.4057)
<b>Seat</b>	EPDM
	BUNA-N
	HT-EPDM

**NOTES**

<sup>1</sup>Materials available in ASME and EN grades

**CERTIFICATIONS AND APPROVALS**

<b>Certifications</b>	CE/PED
	ANSI/NSF 61 & 372
	EC 1935
<b>Approvals</b>	FDA Food Contact Approved
	ABS Type Approval
	Bureau Veritas Type

Additional information is available in the 3W/3L Technical Sales Manual.

**EXPLODED VIEW**

