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

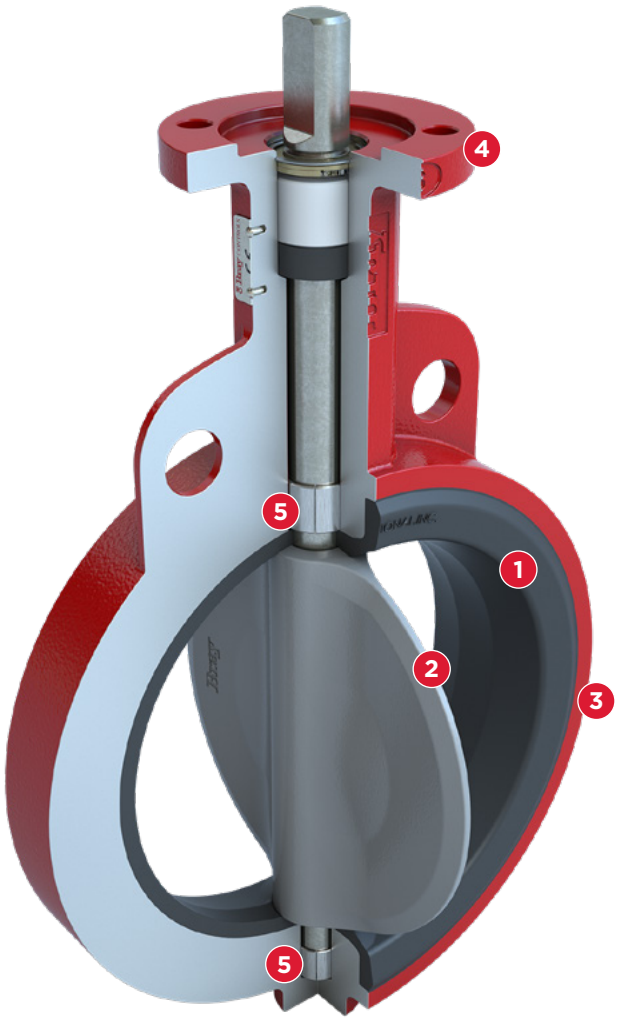
SPECIFICATIONS

Size Range	NPS 2 to 24	
	DN 50 to 600	
Temperature Range	-20°F to 250°F	
	-29°C to 121°C	
Maximum Operating Pressure	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
Body Style	3W - One-piece wafer	
	3L - One-piece lug	
Leakage Rate	Bubble tight	
Vacuum Rating	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

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

MATERIAL OPTIONS[1]

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

NOTES
[1]Materials available in ASME and EN grades

CERTIFICATIONS AND APPROVALS

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

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

EXPLODED VIEW