

## OVERVIEW

Based on Bray's patented, award-winning design, this double offset high performance butterfly valve is precision engineered to deliver **quality**, **value**, and **reliability** in high temperature, high pressure, high cycle, and critical service applications. This highly versatile valve features an adjustable live-loaded stem sealing with certified low emission packing.

### APPLICATIONS

- > Process
- > Sour Gas
- > Steam
- > Vacuum
- > Water and Wastewater treatment

### MEDIA

- > Acids
- > Alkalis
- > Corrosive Chemicals
- > Gases
- > Hydrogen
- > Oxygen
- > Water



## SPECIFICATIONS

<b>Size Range<sup>1</sup></b>	DN 80 to 400
<b>Temperature Range</b>	Carbon Steel: -10°C to 260°C
	Stainless Steel: -29°C to 260°C
<b>Pressure Rating</b>	PN 10, PN 16, PN 25
<b>Body Style</b>	Wafer   Lug
<b>Tightness Test</b>	EN 12266-1 Rate A

### NOTE

<sup>1</sup> Other sizes on request.

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

<b>Body</b>	Carbon Steel (EN 1.0619)
	Stainless Steel (EN 1.4408)
<b>Disc</b>	Stainless Steel (EN 1.4408)
<b>Stem</b>	Stainless Steel (EN 1.4542)
<b>Seat</b>	RPTFE with Resilient Energizer

### NOTE

<sup>1</sup> Other materials are available on request.

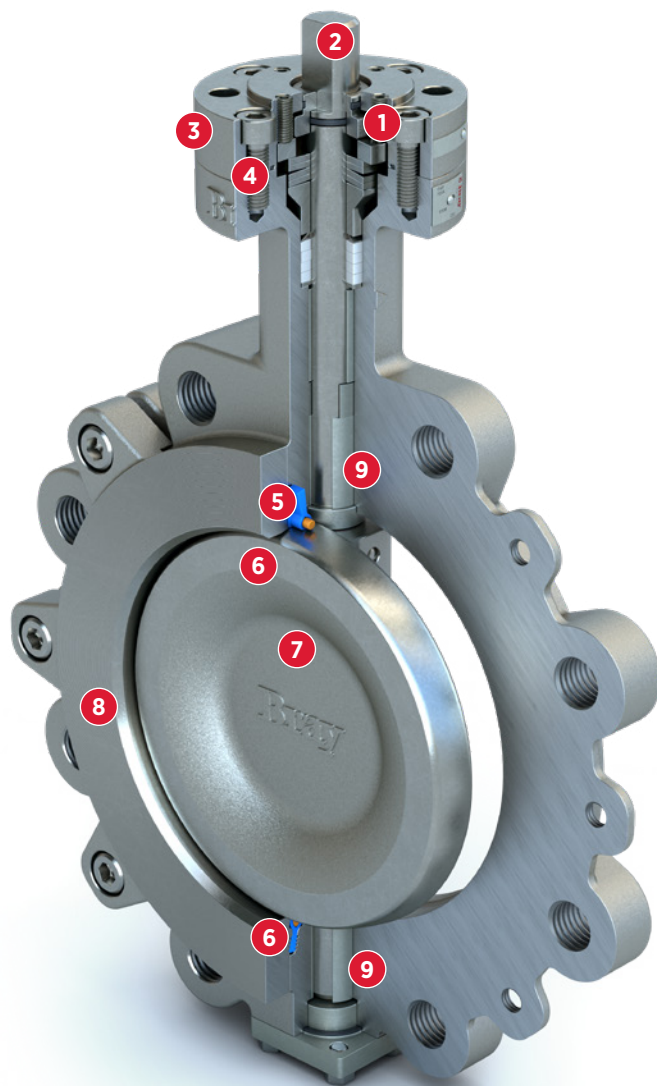
## DESIGN STANDARDS

<b>Valve Design</b>	EN 12569   EN 593   NE 167
<b>Material Standard</b>	EN 16668   AD2000 W0
<b>Food Contact</b>	EC 1935
<b>Marking</b>	EN 19   DIN EN IEC 61406   DIN 91406
<b>Top Flange</b>	ISO 5211
<b>Flange Drilling</b>	EN 1092-1
<b>Face-to-Face</b>	EN 558 Series 20, Series 25
<b>Testing Standard</b>	EN 12266-1 & 2

## CERTIFICATIONS AND APPROVALS

<b>Declaration of Conformity</b>	CE   UKCA
<b>Pressure Equipment Directive</b>	2014/68/EU   PE(S)R
<b>Machinery Directive</b>	2006/42/EC
<b>Atmospheric Explosion</b>	ATEX (2014/34/EU)
<b>Fugitive Emissions</b>	ISO 15848-1
	TA-Luft VDI 2440
<b>AutoID / ID Link</b>	DIN 91406 / IEC 61406
<b>Safety Integrity Level</b>	IEC 61508 Level 3 (SIL 3 capable)

- 1 TRAVEL STOP:** Integrated into the top flange allows for an uninterrupted bore optimizing the flow path and reduces potential turbulence. The robust travel stop outperforms pinned designs as it offers increased shear area to withstand higher torque loads.
- 2 STEM DESIGN:** The high-strength stem design combine blowout-proof functionality for safe operation and exceptional service life.
- 3 STEM PACKING:** Fully-adjustable, live-loaded and field-replaceable stem packing is certified to international fugitive emission standards.
- 4 ENVIRONMENTAL PROTECTION:** O-Ring seals in the top flange and travel stop prevent any external contaminants from entering the valve packing area.
- 5 SEAT DESIGN:** The energized resilient seat provides bidirectional zero leakage sealing, is self-adjustable and isolated from the line media.
- 6 PRESSURE ASSISTED SEALING:** Enables optimal bidirectional sealing performance for low and high pressures.
- 7 DISC DESIGN:** The double offset stem and disc design reduces seat wear, lower torque and ensures extended service life.
- 8 FULL-FACED SEAT RETAINER:** Uninterrupted design provides a high integrity sealing surface with available face-to-face options between mating flanges.
- 9 STEM BEARINGS:** Top and bottom bearings securely support the stem, provide excellent corrosion resistance and minimizes deflection.



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