

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

Size Range¹	DN 80 to 400
Temperature Range	Carbon Steel: -10°C to 260°C
	Stainless Steel: -29°C to 260°C
Pressure Rating	PN 10, PN 16, PN 25, PN 40
Body Style	Wafer Lug
Tightness Test	EN 12266-1 Rate A

NOTE

¹ Other sizes on request.

MATERIAL OPTIONS¹

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

NOTE

¹ Other materials are available on request.

DESIGN STANDARDS

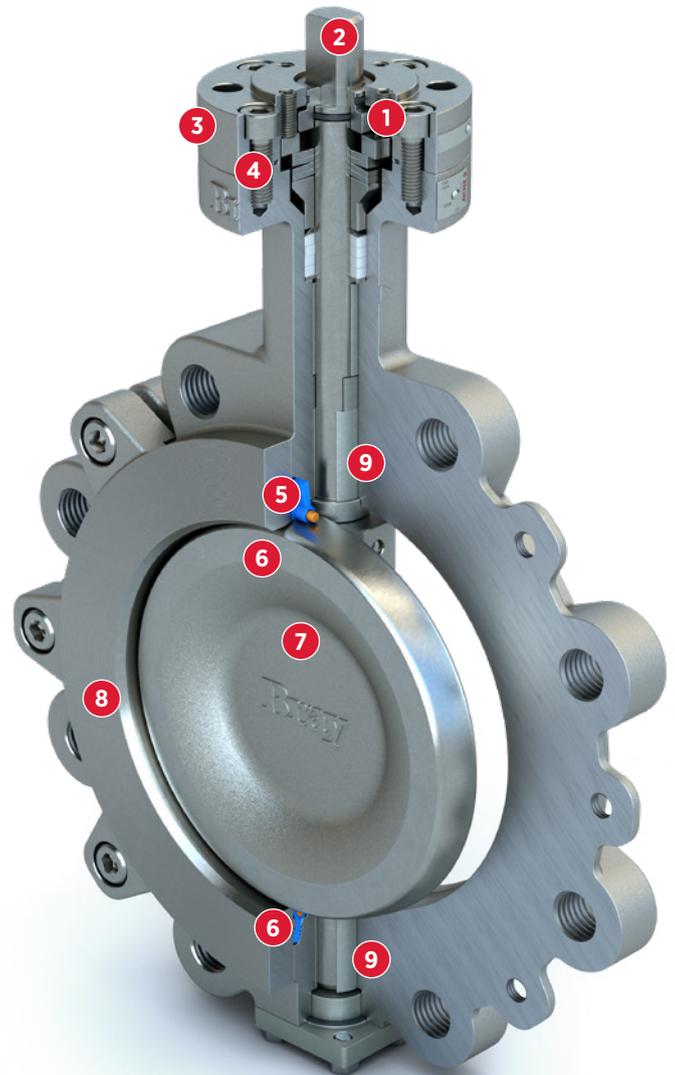
Valve Design	EN 12569 EN 593 NE 167
Material Standard	EN 16668 AD2000 W0
Food Contact	EC 1935
Marking	EN 19 DIN EN IEC 61406 DIN 91406
Top Flange	ISO 5211
Flange Drilling	EN 1092-1
Face-to-Face	EN 558 Series 20, Series 25
Testing Standard	EN 12266-1 & 2

CERTIFICATIONS AND APPROVALS

Declaration of Conformity	CE UKCA
Pressure Equipment Directive	2014/68/EU PE(S)R
Machinery Directive	2006/42/EC
Atmospheric Explosion	ATEX (2014/34/EU)
Fugitive Emissions	ISO 15848-1
	TA-Luft 2021
AutoID / ID Link	DIN 91406 / IEC 61406
Safety Integrity Level	IEC 61508 Level 3 (SIL 3 capable)

FEATURES & BENEFITS

- 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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