



OUR ELEMENT

SOLUTIONS FOR THE CHEMICAL INDUSTRY



 **Bray**[®]

BRAY.COM

THE HIGH PERFORMANCE COMPANY

Excellence Quality Trust

Explore Our Elements

PASSION FOR SOLUTIONS

COMMITMENT, SAFETY, RELIABILITY & SUSTAINABILITY

These elements are our passion to design, engineer, and manufacture our new Cx Line products — offering valve solutions that consistently deliver results for your unique process conditions.

All products for the Cx Line feature a digital valve identification tag which enables a link with the end user's systems. Together with the compliance of all necessary standards, these products will be your preferred choice.

DIGITAL TAG

The electronic tagging system — **Bray DIGI-ID™** — ensures that each valve is uniquely and easily identifiable by simply scanning the QR Code on the product identification tag. This allows the operator to gain instant access to all relevant product information. This solution is in accordance with the DIN EN IEC 61406 (DIN Spec 91406) standard.

Benefits of Bray DIGI-ID™



QR CODE

Engraved on Valve ID Tag
Captive and Unique
Easily Scannable



PORTAL

Responsive Design
Instant Access
Multi-lingual
DIN EN IEC 61406 Conformance



DOWNLOADS

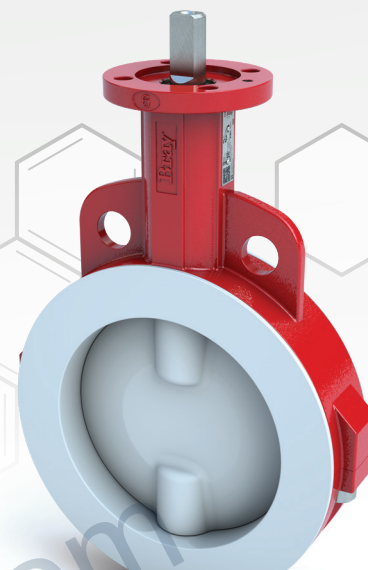
Declaration of Conformity
Sales Data Sheet
Technical Sales Manual
Installation, Operation and Maintenance Manual

2-Cx

PTFE-Lined

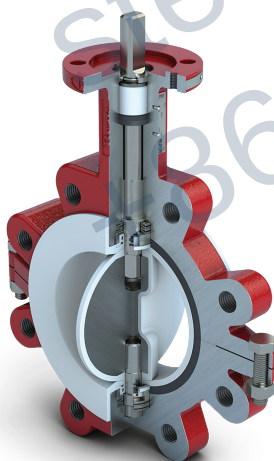


SCAN ME
FOR A CLOSER LOOK



KEY ELEMENTS

- > Live-loaded, self-adjusting stem sealing system with certified packing
- > Unique seat geometry permits lower torques and reduces seat wear
- > Seat energizer extends completely around the seat for zero leakage
- > Virgin-PTFE lining (minimum 3mm) for superior chemical resistance
- > Extended neck to allow for simplified pipe insulation



2-Cx
Lug

Size Range¹	DN 50 to 600
	NPS 2 to 24
Temperature Range	-20°C to 200°C
Maximum Operating Pressure	10 bar
Body Style	Wafer Lug
Flange Drilling	EN 1092-1: PN 10
Face-to-Face	EN 558 Series 20
Top Flange	ISO 5211
Tightness Test	EN 12266-1: Rate A
Certifications	CE: PED 2014/68/EU
	SIL 3 capable
Fugitive Emissions	ISO 15848-1
	TA-Luft 2021
Approvals	ATEX 2014/34/EU
Compliance	NE 167 AD2000 DIN EN IEC 61406 EC 1395

NOTE

Other sizes and specifications on request.

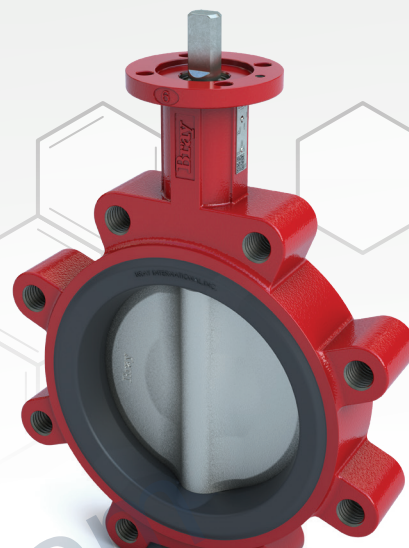


3-Cx

Resilient Seated



SCAN ME
FOR A CLOSER LOOK



3-Cx
Wafer

KEY ELEMENTS

- > Molded-in seat design for durability and reliability
- > Lug version allows for bi-directional sealing at full rated pressure
- > Precision profiled disc sealing edge extends the valve life by reducing seat wear
- > Upper and lower stem bearings reduce operating torque and increase reliability in high cycle applications
- > Reduction in torque enables optimized actuator selection resulting in cost savings over the valve's lifetime
- > Extended neck to allow for simplified pipe insulation

Size Range	DN 50 to 600
Temperature Range	-20°C to 121°C
Maximum Operating Pressure	16 bar
Body Style	Wafer Lug
Flange Drilling	EN 1092-1: PN 10 PN 16
Face-to-Face	EN 558 Series 20
Top Flange	ISO 5211
Tightness Test	EN 12266-1: Rate A
Certifications	CE: PED 2014/68/EU SIL 3 capable
Fugitive Emissions	ISO 15848-1 TA-Luft 2021
Approvals	ATEX 2014/34/EU
Compliance	NE 167 AD2000 DIN EN IEC 61406 EC 1935

NOTE

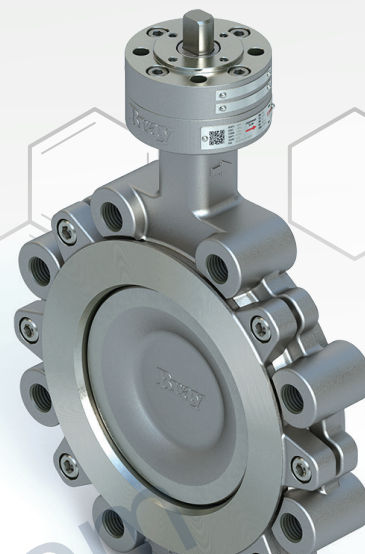
Other sizes and specifications on request.

4-Cx

Double Offset

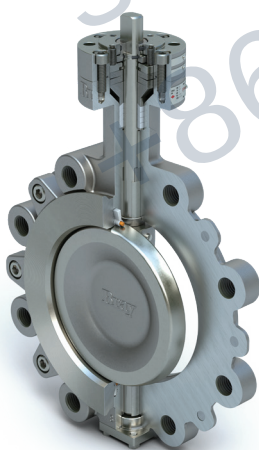


SCAN ME
FOR A CLOSER LOOK



KEY ELEMENTS

- > Designed to deliver quality, value, and reliability in the most demanding applications
- > Adjustable, live-loaded stem sealing system with low fugitive emissions certified packing
- > Double offset geometry reduces seat wear and extends valve service life
- > Dead-end service, with bidirectional sealing and uninterrupted flange surface
- > High strength, anti-blowout one-piece stem
- > Extended neck to allow for simplified pipe insulation



4-Cx
Lug

Size Range	DN 80 to 400
Temperature Range	Carbon Steel: -10°C to 260°C
	Stainless Steel: -29°C to 260°C
Pressure Rating	PN 10 16 25 40
Body Style	Wafer Lug
Flange Drilling	EN 1092-1
Face-To-Face	EN 558 Series 20, Series 25
Top Flange	ISO 5211 NE 14
Tightness Test	EN 12266-1: Rate A
Certifications	CE: PED 2014/68/EU
	SIL 3 capable
Fugitive Emissions	ISO 15848-1
	TA-Luft 2021
Approvals	ATEX 2014/34/EU
Compliance	NE 167 AD2000 DIN EN IEC 61406 EC 1935

NOTE

Other sizes and specifications on request.

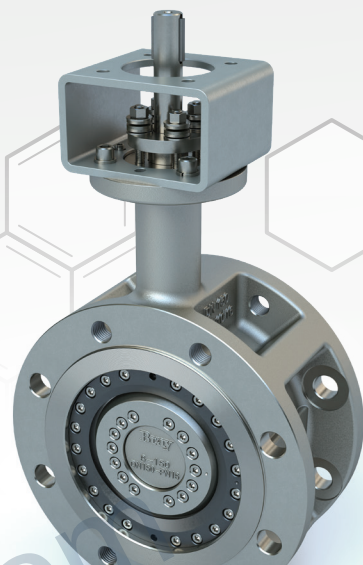


Tri Lok[®]-Cx

Triple Offset

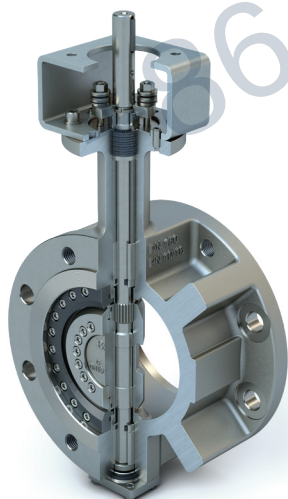


SCAN ME
FOR A CLOSER LOOK



KEY ELEMENTS

- > Designed for zero leakage, high reliability, and easy maintenance
- > Adjustable live-loaded stem sealing system with certified packing
- > Field replaceable sealing components
- > Engineered for critical service applications
- > Metal-to-metal sealing system is inherently fire-safe and capable of meeting zero-leakage requirements from critical service conditions
- > Splined stem connection offers maximum strength and minimizes hysteresis
- > Dead-end service, with bidirectional sealing and uninterrupted flange surface
- > Extended neck to allow for simplified pipe insulation



Tri Lok[®]-Cx
Double Flange

Size Range	DN 80 to 600
Temperature Range*	Carbon Steel: -10°C to 400°C
	Stainless Steel: -60°C to 400°C
Pressure Rating	PN 10 25 40
Body Style	Lug Double Flange
Flange Drilling	EN 1092-1
Face-To-Face	Lug: EN 558 Series 16
	Double Flange: EN 558 Series 13
Top Flange	ISO 5211
Tightness Test	EN 12266-1: Rate A
Certifications	CE: PED 2014/68/EU
	SIL 3 capable
	UKCA
Fire Test	ISO 10497
Fugitive Emissions	ISO 15848-1
	TA-Luft 2021
Approvals	ATEX 2014/34/EU
Compliance	NE 167 AD2000 DIN EN IEC 61406

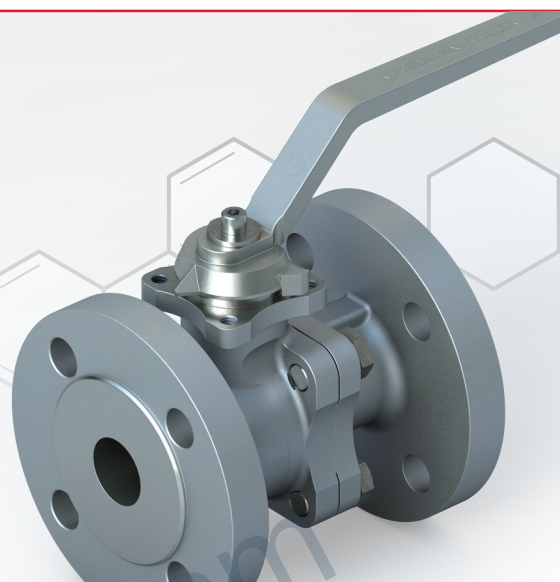
NOTE

Other sizes and specifications on request.

*For higher temperature requirements please contact your Bray team.

KM20/21

Flanged Ball Valve



SCAN ME
FOR A CLOSER LOOK

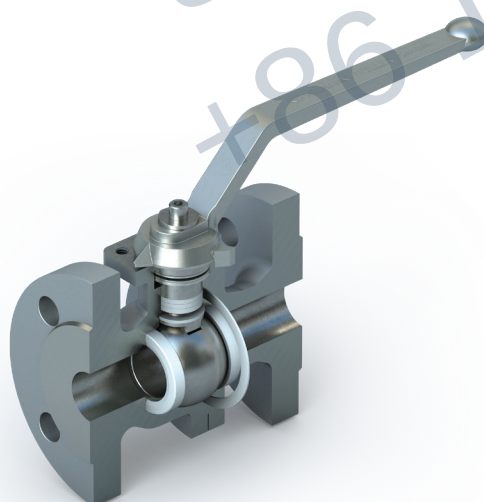
KEY ELEMENTS

- > Designed for maximum safety and durability
- > Adjustable live-loaded PTFE stem sealing or O-Ring sealing system with certified packing
- > Easy to maintain, fully repairable, and replaceable components
- > Robust construction with blowout proof stem design
- > Antistatic design as standard, to ensure operational safety
- > Various configuration options available, such as Fire-Safe, High-Temperature or Heat-Jacketed

Size Range	DN 15 to 200
Temperature Range	PTFE: -60°C to 200°C O-Ring: -25°C to 200°C
Pressure Rating	PN 10 16 25 40
Body Style	2-piece flanged
Flange Drilling	EN 1092-1
Face-To-Face	EN 558 Series 1, Series 27
Top Flange	ISO 5211
Tightness Test	EN 12266-1: Rate A
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 VDI 2440
Safety Integrity Level	IEC 61508 Parts 1-2 and 4-7:2010
Fire-Safe (optional)	ISO 10494 API 607
Compliance	NE 167 AD2000 DIN EN IEC 61406 EC 1935

NOTE

Other sizes and specifications on request.
Contact Kugelhahn Müller for more information.



KM21
PTFE Packing



SINCE 1986, BRAY HAS PROVIDED FLOW CONTROL SOLUTIONS
FOR A VARIETY OF INDUSTRIES AROUND THE WORLD.

VISIT **BRAY.COM** TO LEARN MORE ABOUT
BRAY PRODUCTS AND LOCATIONS NEAR YOU.

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