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KROMBACH® Double-Eccentric Valves
(Dop-EX) AK125

CRANE

Energy Flow Solutions

www.craneenergy.com

Key Features



Key Features

- 1 Improved sealing performance, reliability, and lifetime due to its double offset design and sealing element on the disc
- 2 Fabrication expands material and design customization options, reduces weight and cost, and enables shorter lead times
- 3 Available in sizes from 4" - 136" (DN 100 - DN 3400) with a range of options, including hard rubber lining for seawater applications

Overview and Applications



Overview

Size:	4" - 136" (DN 100 - DN 3400)
Class:	ASME 150 (PN 2.5, 6, 10, 16, 25, 40)
Temperature:	158°F (+70° C) standard
Connections:	Double Flanged, Buttweld Customized on request
Standard Materials:	Carbon Steel A283 Gr.B/A565 Gr.60 (1.0038/1.0425) Hard rubber lining option for seawater applications

Applications

- Condenser isolations
- Circulating water isolations
- Cooling tower isolations
- Seawater isolations
- Air isolations

Design Features

Design Features

- Double-eccentric design
- Double flange face-to-face according to EN 558, Series 14
- Mounting flange according to ISO 5211
- Two-piece shaft design
- Soft sealing element carried by the disc
- Temperature +70°C (158°F) standard

Shaft Sealing Detail

O-rings give shaft seal extended life.

Double Eccentric Design

Double offset geometry reduces friction and wear, improving sealing performance, reliability and lifetime.

Sealing Detail

The sealing element is carried by the disc resulting in reduced wear and consistent bi-directional sealing.



Design Features

Sealing Geometry:	Double-Eccentric
Disc Sealing:	Buna seal ring carried on disc
Seat:	Steel body seat
Mounting Flange:	ISO 5211
Face-To-Face	EN 558-2 (Series 14) ANSI B16.10 Customized on request

Additional Design Features

- Hard rubber lining for heavy duty installations
- AWWA / ANSI / DIN Flanges
- Electric heat tracing/jackets for freeze protection
- Blocking device(s)
- Quick closing/opening designs
- Stem extensions
- Standard and customized actuation packages

Body and Disc

Hard rubber lined for seawater applications.

Superior design features with many options to meet customer requirements and specifications.

Double-Eccentric (DOP-EX) Design

Double-Eccentric (DOP-EX) Design

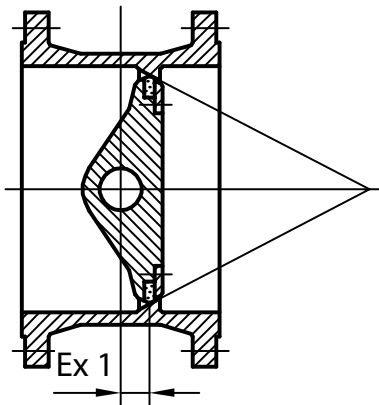
What does Double-Eccentric design mean? Traditional butterfly valves are concentric – no offsets. Double-offset geometry reduces friction and wear, improving sealing performance, reliability and lifetime.

First Offset (1)

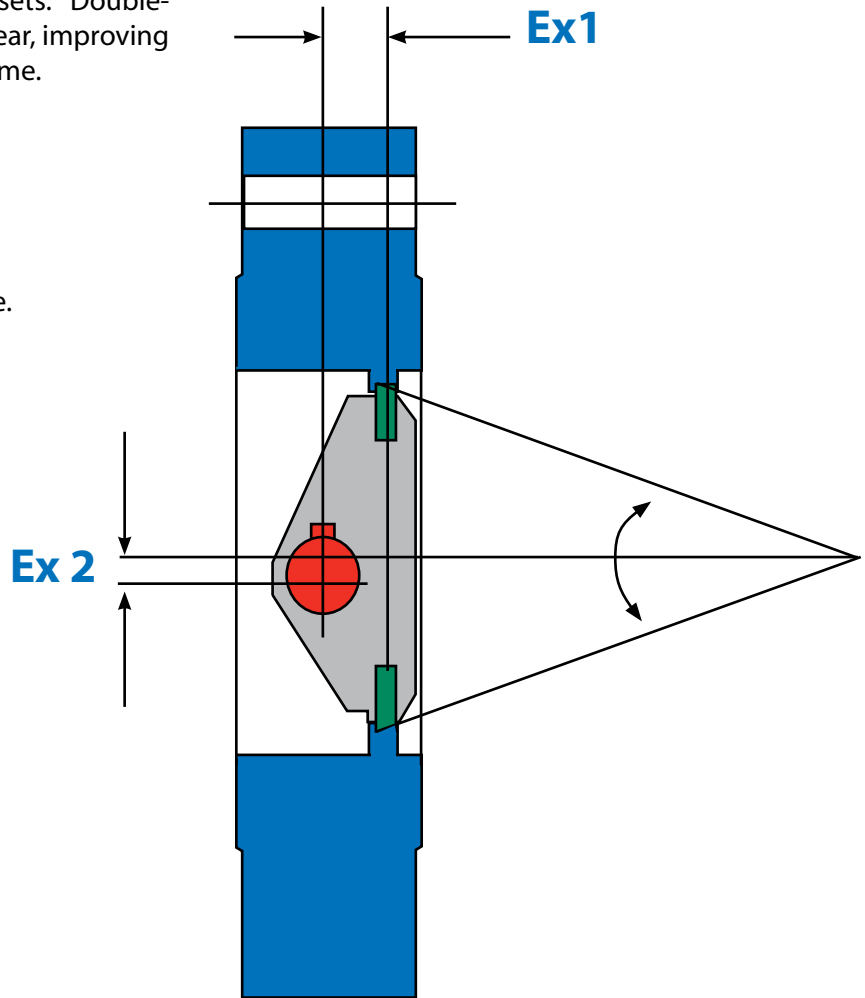
Seat has axial offset to the shaft.

Second Offset (2)

Shaft has offset to the center of the valve.



First Offset 1



**Second Offset 2
(DOP-EX)**

Standards and Certificates

Design:	Fabricated, Double-Eccentric
Face-To-Face Dimension:	EN 558, Series 14 (long), ANSI B16.10
Top Flange:	ISO 5211
End Connection:	Double Flanged or Weld Ends
Testing:	EN 12266 part 1 and 2, API 598
Marking:	PED 97/23/EC, AD2000-A4, API-Standard 609
Quality Assurance:	DIN EN ISO 9001:2008
Approvals:	PED 97/23/EC AD2000-A4 GOST-R API-Standard 609





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