

Critical Service , Type 447



Critical Service

Type 447

PTFE-lined safety valves from the Critical Service product group are utilized for highly corrosive media such as chlorine, acids, and lyes. With their highly resistant lining they offer a safe solution for corrosive media.

Approvals



Industries

- Chemical Industry (Chlorine manufacture and processing; Chemical plants and pipelines; Reduced media such as acids or lyes)

Further Links

 [Critical Service Catalog \[DE\]](#)

 [Instructions \[DE, EN, FR, IT, SP, RU, CN\]](#)

 [Stückliste Type 447 \[DE\]](#)

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Datasheet

Product info	Metric unit	US unit
Key feature	PTFE-full lining at the inlet and outlet area for high corrosive medium	PTFE-full lining at the inlet and outlet area for high corrosive medium
Nominal diameter inlet	DN 25 - DN 100	1" - 4"
Nominal diameter inlet - Thread		
Nominal diameter inlet - Flange		
Nominal diameter outlet		
Orifice	E - P	E - P
Pressure		
Actual orifice diameter d0	23 - 92 mm	0.91 - 3.62 in
Actual orifice area A0	416 - 6648 mm ²	0.645 - 10.304 in ²
Operating limits valve size		
Operating limits pressure class inlet flange		
Pressure	0,1 - 16 bar	1.45 - 232 psig
Flange rating inlet	PN 16	CL150
Temperature acc. to DIN EN	-85 to 200 °C	-121 to 392 °F
Temperature acc. to ASME	-29 to 200 °C	-200 to 392 °F
Body material	1.0406, 10619, 1.0570 + Virgin PTFE	SA 216 WCB
KUB-Materials		
Material outlet body		
Material inlet body		
Valve connection	Flange acc. to DIN EN 1092-1 ASME B 16.5	Flange acc. to DIN EN 1092-1 ASME B 16.5
Bellows	PTFE	PTFE
Type of loading	Spring loaded	Spring loaded
Approvals	PED/ DIN EN ISO 4126-1, PED/ AD 2000-Merkblatt	PED/ DIN EN ISO 4126-1, PED/ AD 2000-Merkblatt

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Specials

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Options

Feature		Option Code
Disc	with sealing plate borofloat glass with sealing plate virgin PTFE with sealing plate PTFE - 25 % carbon cc. to customer specification e.g. Hastelloy®	standard
Bellows	PTFE bellows	standard
Caps and levers	Caps H2 Packed lever H4	- -
Spring	corrosive resistant 1.4310	X04
Test gag	for cap H2 for lifting device H4	J70 J69
Lift indicator	Lift indicator lifting device H4	J39J93
Lift stopper	Lift stopper	J51
Free of oil and grease	Free of oil and grease	J85
Sparc test	Sparc test DIN 28055-2 Sparc test DIN EN 10204 2.2	-
Conductive coating	Conductive coating conductive PTFE	
Special materials	Hastelloy® C4/ 2.4610 Monel® 400/ 2.4360 Duplex/ 1.4462	