

Critical Service , Type 449



Critical Service

Type 449

Type 449 is a component-tested safety valve for protection against toxic media, often also in connection with corrosion.

Type 449 is characterised by:

- a duct system for flushing with protective gas
- balanced bellows for back pressure compensation and to protect the bonnet space.
- manufacture of the body components as well as most inner components of rod or forged material in order to realise customer-specific material requirements, nominal pressure ratings, flange drillings and facings, and centre to face dimensions.

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

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Datasheet

Product info	Metric unit	US unit
Key feature	Block body valve with flushing protective gas, all special materials available	Block body valve with flushing protective gas, all special materials available
Nominal diameter inlet	DN 25 - DN 100	1" - 4"
Nominal diameter outlet		
Orifice	G - N	G - N
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
Pressure	0,1 - 16 bar	1,45 - 232 psig
Temperature acc. to DIN EN	-270 to 450 °C	-121 to 392 °F
Temperature acc. to ASME	currently no approvals acc. to ASME Sec. VIII Div. 1	currently no approvals acc. to ASME Sec. VIII Div. 1
Body material	Acc. to customer preference all materials available	Acc. to customer preference all materials available
KUB-Materials		
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	Stainless steel	Stainless steel
Type of loading	Spring loaded	Spring loaded
Approvals	On request	On request
Specials	Currently no approvals acc. to ASME	Currently no approvals acc. to ASME

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Options

Feature		Option Code
Disc	Metal sealing, with detachable lifting aid	J26 (Standard)
Bellows	Balanced bellows with special material Hastelloy	J78 (Standard) -
Caps and levers	Caps H2 Packed lever H4	
Spring	corrosive resistant 1.4310	X04
Lift stopper	Lift stopper	J51
Free of oil and grease		J85
Gas-masking	Gas-masking	
Special materials	Hastelloy® C4/ 2.4610 Monel® 400/ 2.4360 Duplex / 1.4462	