

Compact Performance , Type 438



## Compact Performance

### Type 438

The product group Compact Performance includes threaded and flanged safety valves with compact dimensions for economical protection of small and mid-sized capacities. Due to its many orifice diameters, seals, and connections this product group offers a very wide area of application.

#### Approvals



#### Industries

- Chemical Industry
- Petrochemical Industry
- Technical Gases
- Oil and Gas Industry
- Power
- Food and Beverage Industry
- Pharmaceutical Industry

#### Further Links

 [Compact Performance Catalog \[DE\]](#)

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

 [Stückliste Type 438 \[DE\]](#)

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### Datasheet

Product info	Metric unit	US unit
Key feature	O-ring disc	O-ring disc
Nominal diameter inlet		
Nominal diameter inlet - Thread	G 3/8 - 1	NPT 1/2" - 1"
Nominal diameter inlet - Flange	DN 15 - DN 25	1/2" - 1"
Nominal diameter outlet		
Orifice		
Pressure		
Actual orifice diameter d0	10 mm	0,394 in
Actual orifice area A0	78,5 mm <sup>2</sup>	0,122 in <sup>2</sup>
Operating limits valve size		
Operating limits pressure class inlet flange		
Pressure	5 - 180 bar	72,5 - 2.610 psig
Flange rating inlet	PN40 - PN400	CL150 - CL2500
Temperature acc. to DIN EN	-29 to 150 °C	-49 to 302 °F
Temperature acc. to ASME	-45 to 150 °C	-49 to 302 °F
Body material		
KUB-Materials		
Material outlet body	1.4104, 1.4404	SA 479 430, SA 479 316L
Material inlet body	1.4104, 1.4404	SA 479 430, SA 479 316L
Valve connection	Thread acc. to DIN ISO 228-1, DIN ISO 7-1 / BS 21 or ASME B1.20.1 Flange acc. to DIN EN 1092-1 or ASME B16.5	Thread acc. to DIN ISO 228-1, DIN ISO 7-1 / BS 21 or ASME B1.20.1 Flange acc. to DIN EN 1092-1 or ANSI/ASME B16.5
Bellows	no bellows	no bellows
Type of loading	Spring loaded	Spring loaded

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ASME Sec. VIII Div. 1, CRN, AQSIQ, EAC

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Specials

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## Options

Feature		Option Code
Disc	soft seal CR „K” (Long version: O-ring 90 Shore for set pressures > 120 bar)	J21
	soft seal NBR „N” (Long version: O-ring 90 Shore for set pressures > 120 bar)	J30
	soft seal EPDM „D” (Long version: O-ring 90 Shore for set pressures > 120 bar)	J22
	soft seal FKM „L” (Long version: O-ring 90 Shore for set pressures > 120 bar)	J23
	soft seal FFKM „C” (O-ring 90 Shore for set pressures > 40 bar)	J20
	Caps and levers	Screwed cap H2
Screwed plain lever H3		
Screwed packed lever H4		
Spring	heat resistant	X01
	corrosive resistant 1.4310	X04
	Aus INCONEL X-750	X08
Test gag	for Cap H2	J70
Heating jacket		H29
Connections	Threaded connection: G, R/BSPT, NPT (combinations on request or in catalog)	diverse
	Flange connection: DIN, ASME (combinations on request or in catalog)	diverse
Free of oil and grease		J85
NACE material test certificate	Sour gas resistance acc. to NACE MR0175; Certificate acc. to DIN EN 10204-3.1	N78
	Sour gas resistance acc. to NACE MR0103; Certificate acc. to DIN EN 10204-3.1	N77
Special materials	Hastelloy® C4/ 2.4610	
	Monel® 400/ 2.4360	
	Duplex/ 1.4462	