

Compact Performance , Type 459



Compact Performance

Type 459

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 459 \[DE\]](#)

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Datasheet

Product info	Metric unit	US unit
Key feature	Metal to metal or sealing plate	Metal to metal or sealing plate
Nominal diameter inlet		
Nominal diameter inlet - Thread	1/2" - 1"	1/2" - 1"
Nominal diameter inlet - Flange	DN 15 - DN 25	1/2" - 1"
Nominal diameter outlet		
Pressure		
Actual orifice diameter d0	9 - 17,5 mm	0,354 - 0,689 in
Actual orifice area A0	63,6 - 241 mm ²	0,099 - 0,374 in ²
Pressure	0,2 - 250 bar	2,9 - 3626 psig
Flange rating inlet	PN 40 - PN 400	CL150 - CL2500
Temperature acc. to DIN EN	-273 to 450 °C	-459 to 842 °F
Temperature acc. to ASME	-196 to 450 °C	-321 to 842 °F
Body material		
KUB-Materials		
Material outlet body	1.0619, 1.4408, 0.7043	SA 216 WCB, SA 351 CF8M, Duktıl Gr. 60-40-18
Material inlet body	1.4104, 1.4404	SA 479 430, SA 479 316L
Valve connection	Thread acc. to DIN ISO 228-1, 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, ISO 7-1 / BS 21 or ASME B1.20.1 Flange acc. to DIN EN 1092-1 or ASME B16.5
Bellows	Stainless steel, elastomer and hastelloy	Stainless steel, elastomer and hastelloy
Type of loading	Spring loaded	Spring loaded
Approvals	PED/ DIN EN ISO 4126-1, AD 2000-Merkblatt A2, ASME Sec. VIII Div. 1, CRN, AQSIQ, EAC	PED/ DIN EN ISO 4126-1, AD 2000-Merkblatt A2, ASME Sec. VIII Div. 1, CRN, AQSIQ, EAC
Specials		

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Options

Feature		Option Code
Disc	metal sealing, 1.4404 (only option for 4592 and 4593; as a standard for 4594)	L44
	metal sealing, 1.4404 stellite	J25
	metal sealing, 1.4122 hardened	
Inlet body	Stellite sealing surface/ inlet body	L20
Bellows	Balanced bellows	J78
	Stainless steel bellows for higher set pressure	J55J78
	Bellows hastelloy	J81
	Elastomer bellows with EPDM	J79
Caps and levers	Screwed cap H2	
	Screwed plain lever H3	
	Screwed packed lever H4	
Spring	heat resistant	X01
	corrosive resistant 1.4310	X04
	INCONEL X-750	X08
Test gag	for Cap H2	J70
	for lifting device H4	J69
Heating jacket		H29
Lift indicator	Lift indicator for lifting device H4	J39J93
Lift stopper	ring	J51
	actuate screw H2	J52
	actuate screw H4	J50
O-ring-damper	O-ring damper H2	J65
	O-ring damper H4	J66
Connections	Threaded connection G; R/BSPT; NPT (combinations on request or in catalog)	diverse
	Flange connection DIN, ASME JIS (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
Solar valve for collector field		N80
Special materials	Hastelloy® C4/ 2.4610	
	Monel® 400/ 2.4360	
	Duplex/ 1.4462	