

High Performance , Type 457, 458

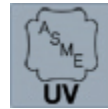


High Performance

Type 457, 458

Safety valves from the High Performance product group offer especially high capacity for their size. With a large quantity of nominal diameters (DN), pressure ranges and product options, they have proven themselves as a universal safety valve for many applications.

Approvals



Industries

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

Further Links



[High Performance Catalog 2 \[DE\]](#)



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



[Stückliste Type 457, 458 \[DE\]](#)

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Datasheet

Product info	Metric unit	US unit
Key feature	High pressure with nozzle	High pressure with nozzle
Nominal diameter inlet	DN 25 - DN 150	1" - 6"
Nominal diameter outlet		
Pressure		
Actual orifice diameter d0	15 - 110 mm	0,59 - 4,33 in
Actual orifice area A0	177 - 9503 mm ²	0,274 - 14,730 in ²
Pressure	2,5 - 300 bar	36 - 4350 psig
Flange rating inlet	CL150 - CL1500	CL150 - CL1500
Temperature acc. to DIN EN	-85 to 550 °C	-121 to 1022 °F
Temperature acc. to ASME	-29 to 538 °C	-20 to 1000 °F
Body material	1.0619, 1.4581, 1.7357	SA 216 WCB, SA 351 CF10M, SA 217 WC6
KUB-Materials		
Valve connection	Flange acc. to DIN EN 1092-1 ASME B 16.5 JIS 2220	Flange acc. to DIN EN 1092-1 ASME B 16.5 JIS 2220
Bellows	Stainless steel and elastomer	Stainless steel and elastomer
Type of loading	Spring loaded	Spring loaded
Approvals	PED/DIN EN ISO 4126-1, PED/AD 2000-Merkblatt A2, ASME Sec. VIII Div. 1, CRN, AQSIQ, EAC	PED/DIN EN ISO 4126-1, PED/AD 2000-Merkblatt A2, ASME Sec. VIII Div. 1, CRN, AQSIQ, EAC
Specials		

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Options

Feature		Option Code
Disc	Metal sealing, with detachable lifting aid	J26 (Standard)
	Metal sealing, bull-race	J24 (Standard)
	Metal sealing, 1.4404	L44
	Metal sealing, 1.4404 stellited	J25
	With soft sealing O-ring CR „K”	J21
	With soft sealing O-ring EPDM „D”	J22
	With soft sealing O-ring FKM „L”	J23
	With soft sealing O-ring FFKM „C”	J20
Seat/nozzle	Stellited seat / nozzle	L62
Bellows	Balanced bellows with closed bonnet	J78
	Balanced bellows with open bonnet	J68
	Balanced bellows for low set pressures with closed bonnet	J78J63 (on request)
	Balanced bellows for low set pressures with open bonnet	J68J63 (on request)
	Balanced bellows with special material Hastelloy	J81S15
	Balanced bellows with special material INCONEL	J83S15
		J88
Caps and levers	Screwed cap H2	
	Screwed plain lever H3	
	Screwed packed lever H4	
Spring	Spring, heat resistant	X01
	Spring, corrosive resistant 1.4310	X04
	Spring, INCONEL X-750	X08 (on request)
Test gag	For cap H2 (H1)	J70
	For lever H4 (H6)	J69
Bonnet	Closed	
	Open	
Heating jacket		Heating jacket
Lift indicator	Für Anlüftung H4 (H6)	J39J93
Lift stopper	Ring	J51
	Actuate screw H2	J52
	Actuate screw H4	J50
Drain hole	G1/4	J18
	G1/2	J19
O-ring-damper	Cap H2	J65
	Packed lever H4	J66
Butt-weld connection		S05

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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

KUB bursting disc
