

High Performance , Type 441, 442 DIN



High Performance

Type 441, 442 DIN

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 1 \[DE\]](#)

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

 [Stückliste Type 441, 442 DIN \[DE\]](#)

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Datasheet

Product info	Metric unit	US unit
Key feature	DIN Flange	DIN Flange
Nominal diameter inlet	DN 20 - DN 200	3/4" - 8"
Nominal diameter inlet - Thread		
Nominal diameter inlet - Flange		
Nominal diameter outlet		
Pressure		
Actual orifice diameter d0	18 - 165 mm	0,71 - 6,5 in
Actual orifice area A0	254 - 21382 mm ²	0,394 - 33,142 in ²
Pressure	0,1 - 40 bar	1,5 - 580 psig
Flange rating inlet	PN 16 - PN 40	CL150 - CL300
Temperature acc. to DIN EN	-270 to 450 °C	-454 to 842 °F
Temperature acc. to ASME	-268 to 538 °C	-450 to 1000 °F
Body material	0.6025, 0.7043, 1.0619, 1.4408	Cast iron, Ductile Gr. 60-40-18, SA 216 WCB, SA 351 CF8M
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
	Metal sealing, bull-race	J24
	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
	With soft sealing plate SP „T”	J49
	With soft sealing plate PCTFE „G”	J48
	With soft sealing plate PTFE „A”	J44
	Seat/nozzle	Stellited seat / sealing surface
Bellows	Balanced bellows with closed bonnet	J78
	Balanced bellows with open bonnet	J68
	Balanced bellows for low set pressures with closed bonnet	J78J63
	Balanced bellows for low set pressures with open bonnet	J68J63
	Balanced bellows with special material Hastelloy	J81S15
	Balanced bellows with special material INCONEL	J83S15
	Elastomer bellows EPDM	J79
	Elastomer bellows NBR	J87
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		
Lift indicator	Lift indicator for lifting device H4 (H6)	J39J93
Lift stopper	Ring	J51
	Actuate screw H2	J52
	Actuate screw H4	J50
Drain hole	G1/4"	J18
	G1/2"	J19

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	H4	J66
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
KUB bursting disc		