

High Performance , Type 441, 442 Full nozzle DIN



High Performance

Type 441, 442 Full nozzle 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 2 \[DE\]](#)



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



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

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Datasheet

| Product info | Metric unit | US unit |
|----------------------------|---|---|
| Key feature | Nozzle | Nozzle |
| Nominal diameter inlet | DN 25 - DN 50 | 1" - 2" |
| Nominal diameter outlet | | |
| Pressure | | |
| Actual orifice diameter d0 | 23 - 46 mm | 0,91 - 1,81 in |
| Actual orifice area A0 | 416 - 1662 mm ² | 0,644 - 2,576 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 | 1.0619, 1.4408 | 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 / nozzle |
| Bellows | Balanced bellows with closed bonnet | J78 |
| | Balanced bellows with open bonnet | J68 |
| | Balanced bellows for low set pressure with closed bonnet | J78J63 |
| | Balanced bellows for low set pressure 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 | 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 | | |