

Clean Service , Type 481



Clean Service

Type 481

Safety valves from the Clean Service product group were specially developed for the food, beverage, and pharmaceutical industries and meet all the relevant standards and regulations such as DIN 11866 or ASME BPE. With a low deadspace inlet area, the unique LESER HyTight assembly, and the optional pneumatic lifting device you have very good cleanability (CIP, SIP). With a large selection of aseptic connections (threaded, flanged, or clamped) the valve can be optimally fitted to different requirements.

Approvals



Industries

- Food and Beverage Industry
- Pharmaceutical Industry
- Chemical Industry
- Petrochemical Industry
- Cosmetic Industry
- Special Processes

Further Links

 [Clean Service Catalog \[DE\]](#)

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

 [Stückliste Type 481 \[DE\]](#)

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Datasheet

Product info	Metric unit	US unit
Key feature	Small capacity at high set pressure	Small capacity at high set pressure
Nominal diameter inlet	DN15 - DN25	3/4" - 1"
Nominal diameter outlet		
Orifice	0,5 x D	0,5 x D
Pressure		
Actual orifice diameter d0	10 mm	0,394 in
Actual orifice area A0	78,5 mm ²	0,122 in ²
Pressure	0,1 - 68 bar	1,5 - 986 psig
Temperature acc. to DIN EN	-45 to +250 °C	-49 to +482 °F
Body material	1.4404	SA 479 316L
KUB-Materials		
Valve connection	Clamps acc. to ASME BPE, DIN 32676 or ISO 2852 Threaded connection acc. to DIN ISO 228 or ASME B 1.20.1, Aseptic clamps acc. to DIN 11864 T1 Series A or B (with nut) or DIN 11851, Neumo-Sterile thread (with nut)	Clamps acc. to ASME BPE, DIN 32676 or ISO 2852 Threaded connection acc. to DIN ISO 228 or ASME B 1.20.1, Aseptic clamps acc. to DIN 11864 T1 Series A or B (with nut) or DIN 11851, Neumo-Sterile thread (with nut)
Bellows		
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	Designed and manufactured acc. to: DIN 11866, ASME BPE, EN 1672-2, DIN ISO 14159, USP class VI and FDA 21 CFR	Designed and manufactured acc. to: DIN 11866, ASME BPE, EN 1672-2, DIN ISO 14159, USP class VI and FDA 21 CFR

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Options

Feature		Option Code
Disc	Soft seal CR „K”	J21
	Soft seal EPDM „D”	J22 (Standard)
	Soft seal FFKM „C”	J20
	Soft seal FKM „L”	J23
	Soft seal BR „N”	J30
Caps and levers	Caps H2	
	Packed lever H4	
	Pneumatic lifting device H8	
	Pneumatic lifting device double piston design H8	J41
Test gag	caps H2	J70
	lifting device H4	J69
Connections	Clamp connection: DIN 32676, ASME BPE, ISO 2852 (combinations on request or in catalog)	diverse
	Threaded connection: DIN ISO 228, ASME B 1.20.1, DIN 11864, DIN 11851 or Neumo-Connection (combinations on request or in catalog)	diverse
Free of oil and grease		J85
LESER Surface package	clean finish	B50
	hyClean finish	B51
	sterile finish	B52
Special materials	Hastelloy® C4/ 2.4610	
	Monel® 400/ 2.4360	
	Duplex / 1.4462	