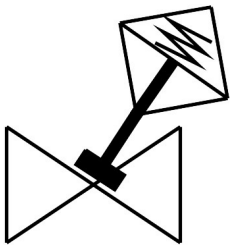
Angle seat valve
VZXA

Part number: 3539410



General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Design	Poppet valve with piston drive Poppet valve with diaphragm actuator
Type of actuation	Pneumatic
Mounting position	optional
Type of mounting	In-line installation
Line connection	Threaded coupling G1/2 to DIN ISO 228 Threaded coupling G3/4 to DIN ISO 228 Threaded coupling G1 to DIN ISO 228 Threaded coupling G1 1/4 to DIN ISO 228 Threaded coupling G1 1/2 to DIN ISO 228 Threaded coupling G2 to DIN ISO 228 Threaded coupling G2 1/2 to DIN ISO 228 Threaded coupling 1/2 NPT as per ANSI/ASME B 1.20.1 Threaded coupling 3/4 NPT as per ANSI/ASME B 1.20.1 Threaded coupling 1 NPT to ANSI/ASME B 1.20.1 Threaded coupling 1 1/4 NPT to ANSI/ASME B 1.20.1 Threaded coupling 1 1/2 NPT to ANSI/ASME B 1.20.1 Threaded coupling 2 NPT to ANSI/ASME B 1.20.1 Threaded coupling 2 1/2 NPT to ANSI/ASME B 1.20.1 Threaded coupling RC1/2 to DIN 10226 Threaded coupling RC3/4 to DIN 10226 Threaded coupling RC1 according to DIN 10226 Threaded coupling RC1 1/4 to DIN 10226 Threaded coupling RC1 1/2 to DIN 10226 Threaded coupling RC2 to DIN 10226 Threaded coupling RC2 1/2 to DIN 10226
Valve function	2/2
Flow direction	Non-reversible
Medium pressure	0 MPa ... 3 MPa
Medium pressure	0 bar ... 30 bar
Type of reset	Mechanical spring
Type of piloting	Externally controlled
Pneumatic connection	Female thread G1/8
Operating pressure	0.5 MPa ... 1 MPa
Operating pressure	5 bar ... 10 bar
Operating pressure	72.5 psi ... 145 psi

Feature	Value
Symbol	00995580 00995581 00995582 00995583 00995586
Medium	Vapour Mineral oil-based hydraulic fluid Inert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm Neutral fluids
Direction of flow	Above valve seat, for gaseous media Below valve seat, for gaseous and liquid media
Control of medium	On/off operation
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Max. viscosity	600 mm²/s
Media temperature	-30 °C ... 230 °C
Ambient temperature	0 °C ... 60 °C
Flow rate Kv	4.6 m³/h ... 77.9 m³/h
Outdoor applications	Weather-protected application areas Class C1 based on IEC 60654-1
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III
Material process valve housing	Stainless steel casting Brass
Material number process valve housing	1.4409 ASTM A351-CF3M CW724R
Material seals	FPM NBR
Material spindle seal	PTFE
Material seat seal	PEEK PTFE PTFE, modified
Product weight	1096 g ... 10700 g
Approval	CRN
CE mark (see declaration of conformity)	In accordance with EU Pressure Equipment Directive To EU Explosion Protection Directive (ATEX)
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
UKCA marking (see declaration of conformity)	to UK Pressure Equipment Regulations To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Certificate issuing authority	TÜV 968/V 1039.01/20
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T6...T3 X
Explosion ignition protection type for dust	Ex h IIC T80°C...T200°C X
Explosion ambient temperature	0 °C <= Ta <= +60 °C
Safety Integrity Level (SIL)	SIL 2
Probability of Failure per Hour (PFH)	1.36E-7
Probability of Failure on Demand (PFD)	5.95E-4
Size of drive	46 mm ... 90 mm
Stroke	17 mm ... 26 mm

Feature	Value
Control function	Closed via reduced spring force, N/C Double-acting Opened via spring force, N/O Closed via spring force, N/C
Position detection	Via mechanical indicator
Material drive housing	Stainless steel casting PA-reinforced
Material number drive housing	1.4408
Storage temperature	-10 °C ... 60 °C
Degree of protection	IP65 IP67
Material piston rod	High-alloy stainless steel
Material cover	Stainless steel casting PA-reinforced