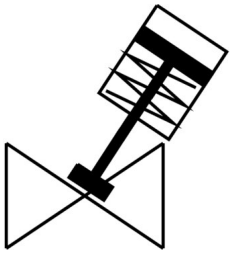
# Angle seat valve
# VZXA

Part number: 3539410

General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|---|
| Structural design | Poppet valve with piston actuator<br>Poppet valve with diaphragm actuator |
| Actuation type | Pneumatic |
| Mounting position | Any |
| Type of mounting | Line installation |

| Feature | Value |
|---|---|
| Cable connection | Clamp 1/2" according to ASME BPE<br>Clamp 3/4" according to ASME BPE<br>Clamp 1" according to ASME BPE<br>Clamp 1 1/2" according to ASME BPE<br>Clamp 2" according to ASME BPE<br>Clamp DN13 according to DIN 32676-A<br>Clamp DN13 according to DIN 32676-B<br>Clamp DN20 according to DIN 32676-A<br>Clamp DN20 according to DIN 32676-B<br>Clamp DN25 according to DIN 32676-A<br>Clamp DN25 according to DIN 32676-B<br>Clamp DN32 according to DIN 32676-A<br>Clamp DN32 according to DIN 32676-B<br>Clamp DN40 according to DIN 32676-A<br>Clamp DN40 according to DIN 32676-B<br>Clamp DN50 according to DIN 32676-A<br>Clamp DN50 according to DIN 32676-B<br>Threaded sleeve G1/2 as per DIN ISO 228<br>Threaded sleeve G3/4 as per DIN ISO 228<br>Threaded sleeve G1 as per DIN ISO 228<br>Threaded sleeve G1 1/4 as per DIN ISO 228<br>Threaded sleeve G1 1/2 as per DIN ISO 228<br>Threaded sleeve G2 as per DIN ISO 228<br>Threaded sleeve G2 1/2 as per DIN ISO 228<br>Threaded sleeve 1/2 NPT as per ANSI/ASME B 1.20.1<br>Threaded sleeve 3/4 NPT as per ANSI/ASME B 1.20.1<br>Threaded sleeve 1 NPT as per ANSI/ASME B 1.20.1<br>Threaded sleeve 1 1/4 as per ANSI/ASME B 1.20.1<br>Threaded sleeve 1 1/2 as per ANSI/ASME B 1.20.1<br>Threaded sleeve 2 NPT as per ANSI/ASME B 1.20.1<br>Threaded sleeve 2 1/2 as per ANSI/ASME B 1.20.1<br>Threaded sleeve RC1/2 as per DIN 10226<br>Threaded sleeve RC3/4 as per DIN 10226<br>Threaded sleeve RC1 as per DIN 10226<br>Threaded sleeve RC1 1/4 as per DIN 10226<br>Threaded sleeve RC1 1/2 as per DIN 10226<br>Threaded sleeve RC2 as per DIN 10226<br>Threaded sleeve RC2 1/2 as per DIN 10226<br>Weld-on end 1/2" according to ASME-BPE<br>Weld-on end 3/4" as per ASME-BPE<br>Weld-on end 1" as per ASME-BPE<br>Weld-on end 1 1/2" as per ASME-BPE<br>Weld-on end 2" as per ASME-BPE<br>Welding end DN13 according to DIN 11850 R2<br>Welding end DN13 according to DIN EN ISO 1127/ISO 4200<br>Welding end DN20 according to DIN 11850 R2<br>Welding end DN20 according to DIN EN ISO 1127/ISO 4200<br>Welding end DN25 according to DIN 11850 R2<br>Welding end DN25 according to DIN EN ISO 1127/ISO 4200<br>Welding end DN32 according to DIN 11850 R2<br>Welding end DN32 according to DIN EN ISO 1127/ISO 4200<br>Welding end DN40 according to DIN 11850 R2<br>Welding end DN40 according to DIN EN ISO 1127/ISO 4200<br>Welding end DN50 according to DIN 11850 R2<br>Welding end DN50 according to DIN EN ISO 1127/ISO 4200 |
| Valve function | 2/2 |
| Flow direction | Non-reversible |
| Medium pressure | 0 MPa ... 3 MPa |
| Medium pressure | 0 bar ... 30 bar |
| Reset method | Mechanical spring |
| Type of control | Externally controlled |
| Pneumatic connection | Internal 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<br>00995581<br>00995582<br>00995583<br>00995586 |
| Medium | Vapor<br>Hydraulic fluid based on mineral oil<br>Inert gas<br>Mineral oil<br>Water<br>Filtered compressed air, 200 µm filter mesh<br>Neutral liquids |
| Flow direction | Above valve seat, for gaseous media<br>Under valve seat, for gaseous and liquid media |
| Control of the medium | On/off mode |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Max. viscosity | 600 mm²/s |
| Temperature of medium | -30 °C ... 230 °C |
| Ambient temperature | 0 °C ... 60 °C |
| Flow rate Kv | 4.6 m³/h ... 77.9 m³/h |
| Use in exterior area | Weather-protected locations class C1 based on IEC 60654-1 |
| Note on materials | RoHS-compliant |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Valve housing material | Cast stainless steel<br>Brass |
| Material number, fitting housing | 1.4409<br>ASTM A351-CF3M<br>CW724R |
| Seals material | FPM<br>NBR |
| Spindle seal material | PTFE |
| Seat seal material | PEEK<br>PTFE<br>PTFE, modified |
| Product weight | 1096 g ... 10700 g |
| Certification | CRN |
| CE marking (see declaration of conformity) | as per EU pressure equipment directive<br>as per EU explosion protection directive (ATEX) |
| Explosion prevention and protection | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| UKCA marking (see declaration of conformity) | according to UK regulations for pressure equipment<br>acc. to UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB) |
| Certificate issuing authority | German Technical Control Board (TÜV) 968/V 1039.01/20 |
| ATEX category gas | II 2G |
| ATEX category for dust | II 2D |
| Type of ignition protection for gas | Ex h IIC T6...T3 X |
| Type of (ignition) protection for dust | Ex h IIC T80°C...T200°C X |
| Explosive ambient temperature | 0°C <= Ta <= +60°C |
| Safety integrity level (SIL) | SIL 2 |
| PFH | 1.36E-7 |
| PFD | 5.95E-4 |
| Actuator size | 46 mm ... 90 mm |
| Stroke | 17 mm ... 26 mm |

| Feature | Value |
|---|---|
| Control function | Closed by reduced spring force, NC<br>Double-acting<br>Opened by spring force, N/O<br>Closed by spring force, NC |
| Position sensing | With mechanical indicator |
| Drive housing material | Cast stainless steel<br>PA-reinforced |
| Material number, drive housing | 1.4408 |
| Storage temperature | -10 °C ... 60 °C |
| Degree of protection | IP65<br>IP67 |
| Piston rod material | High-alloy stainless steel |
| Cover material | Cast stainless steel<br>PA-reinforced |