Angle seat valve VZXA-B-TS7-1/2"-M2-V14T-30-K-46-17-V4 Part number: 8060541

FESTO





General operating condition

Data sheet

| Type of actuation Pneumatic Mounting position Type of mounting In-line installation Line connection Threaded coupling 1/2 NPT as per ANSI/ASME B 1.20.1 Valve function 2/2 Flow direction Medium pressure O MPa 3 MPa Medium pressure O bar 30 bar Type of reset Mechanical spring Type of piloting Externally controlled Pneumatic connection Female thread 61/8 Operating pressure O 5 MPa 1 MPa Operating pressure O 5 MPa 1 MPa Operating pressure O 5 pai 1 45 psi Symbol Operating pressure Type of piloting Operating oressure Operating medium On/off operation Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Max. viscosity Media temperature | Feature | Value |
|---|--------------------------------|---|
| Mounting position Type of mounting Line connection Threaded coupling 1/2 NPT as per ANSI/ASME B 1.20.1 Valve function 2/2 Flow direction Medium pressure Medium pressure O bar 30 bar Type of reset Mechanical spring Type of riloting Externally controlled Preumatic connection Operating pressure O perating pressure Operating pressure Operating pressure Type of piloting Direction of flow Direction of flow Direction of flow Control of medium Operating medium Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Max. viscosity Media temperature | Design | Poppet valve with piston drive |
| In-line installation Line connection Threaded coupling 1/2 NPT as per ANSI/ASME B 1.20.1 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 Externally controlled Pneumatic connection Female thread G1/8 Operating pressure 0.5 MPa 1 MPa Operating pressure 7.2.5 psi 145 psi Symbol Medium Vapour Mineral oil-based hydraulic fluid linert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm Neutral fluids Direction of flow 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 Media temperature -10 °C 180 °C | Type of actuation | Pneumatic |
| Line connection Threaded coupling 1/2 NPT as per ANSI/ASME B 1.20.1 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 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 Symbol 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 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 Media temperature -10 °C 180 °C | Mounting position | optional |
| Valve function 2/2 Flow direction Non-reversible Medium pressure 0 Mechanical spring 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 Symbol 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 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 -10 °C 180 °C | Type of mounting | In-line installation |
| Flow direction Mon-reversible Medium pressure O MPa 3 MPa Medium pressure O bar 30 bar Type of reset Mechanical spring Externally controlled Preumatic connection Female thread G1/8 Operating pressure O.5 MPa 1 MPa Operating pressure 5 bar 10 bar Operating pressure 72.5 psi 145 psi Symbol O0995586 Medium Vapour Mineral oil-based hydraulic fluid lnert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm Neutral fluids Direction of flow 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 Media temperature -10 °C 180 °C | Line connection | Threaded coupling 1/2 NPT as per ANSI/ASME B 1.20.1 |
| Medium pressure O MPa 3 MPa Medium pressure O bar 30 bar Type of reset Mechanical spring Externally controlled Pneumatic connection Female thread G1/8 Operating pressure O.5 MPa 1 MPa Operating pressure Operating pressure 5 bar 10 bar Operating pressure Operating pressure 72.5 psi 145 psi Symbol O0995586 Medium Vapour Mineral oil-based hydraulic fluid lnert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm Neutral fluids Direction of flow 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 Media temperature -10 °C 180 °C | Valve function | 2/2 |
| Medium pressure O bar 30 bar Type of piloting Pneumatic connection Operating pressure Type of piloting Premale thread G1/8 Operating pressure Operating pressure Type of piloting Direction of flow Direction of flow Direction of medium Operating pressure Operating pressure Operating pressure Type of piloting Externally controlled Female thread G1/8 Operating pressure Direction of flow Compressed air to ISO 8573-1:2010 [7:4:4] Max. viscosity Media temperature Operating medium Operating medium Oo mm²/s Media temperature | Flow direction | Non-reversible |
| Type of reset Type of piloting Externally controlled Pneumatic connection Female thread G1/8 Operating pressure Operating pressure Operating pressure Type of piloting Pneumatic connection Female thread G1/8 Operating pressure Operating pressure Type of MPa 1 MPa Operating filoting the MPa 1 MPa Operating medium Operating medium Operating medium Operating medium Operating medium Operating medium Type of MPa 1 MPa Operating medium Operating medium Operating medium Operating medium Type of MPa 1 MPa Operating spring Type of MP | Medium pressure | 0 MPa 3 MPa |
| Type of piloting Externally controlled Pneumatic connection Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure 72.5 psi 145 psi Symbol O999586 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 Control of medium On/off operation Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Max. viscosity Media temperature -10 °C 180 °C | Medium pressure | 0 bar 30 bar |
| 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 Symbol 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 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 -10 °C 180 °C | Type of reset | Mechanical spring |
| Operating pressure 0.5 MPa 1 MPa Operating pressure 72.5 psi 145 psi Symbol 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 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 -10 °C 180 °C | Type of piloting | Externally controlled |
| Operating pressure Operating pressure 72.5 psi 145 psi Operating pressure 72.5 psi 145 psi Operating pressure Vapour Mineral oil-based hydraulic fluid Inert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm Neutral fluids Direction of flow Below valve seat, for gaseous and liquid media Control of medium Operating medium Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Max. viscosity Media temperature -10 °C 180 °C | Pneumatic connection | Female thread G1/8 |
| Operating pressure 72.5 psi 145 psi O0995586 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 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 Media temperature -10 °C 180 °C | Operating pressure | 0.5 MPa 1 MPa |
| Symbol 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 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 Media temperature -10 °C 180 °C | Operating pressure | 5 bar 10 bar |
| 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 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 -10 °C 180 °C | Operating pressure | 72.5 psi 145 psi |
| Mineral oil-based hydraulic fluid Inert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm Neutral fluids Direction of flow 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 -10 °C 180 °C | Symbol | 00995586 |
| 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 -10 °C 180 °C | Medium | Mineral oil-based hydraulic fluid Inert gases Mineral oil Water Filtered compressed air, grade of filtration 200 µm |
| Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Max. viscosity 600 mm²/s Media temperature -10 °C 180 °C | Direction of flow | Below valve seat, for gaseous and liquid media |
| Max. viscosity 600 mm²/s Media temperature -10 °C 180 °C | Control of medium | On/off operation |
| Media temperature -10 °C 180 °C | Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| · · · · · · · · · · · · · · · · · · · | Max. viscosity | 600 mm ² /s |
| Ambient temperature 0 °C 60 °C | Media temperature | -10 °C 180 °C |
| | Ambient temperature | 0 ℃ 60 ℃ |
| Flow rate Kv 6 m³/h | Flow rate Kv | 6 m³/h |
| Outdoor applications Weather-protected application areas Class C1 based on IEC 60654-1 | Outdoor applications | Weather-protected application areas Class C1 based on IEC 60654-1 |
| Note on materials RoHS-compliant | Note on materials | RoHS-compliant |
| LABS (PWIS) conformity VDMA24364 zone III | LABS (PWIS) conformity | VDMA24364 zone III |
| Material process valve housing Stainless steel casting | Material process valve housing | Stainless steel casting |

| Feature | Value |
|--|---|
| Material number process valve housing | ASTM A351-CF3M |
| Material seals | FPM |
| Material spindle seal | PTFE |
| Material seat seal | PTFE |
| Product weight | 1830 g |
| Approval | CRN |
| Explosion protection | Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) |
| Certificate issuing authority | TÜV 968/V 1039.01/20 |
| 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 |
| Stroke | 17 mm |
| Control function | Closed via spring force, N/C |
| Position detection | Via mechanical indicator |
| Material drive housing | Stainless steel casting |
| 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 |