

# Angle seat valve VZX-A-B-TS7-1 1/2"-M2-V14T-9.3-K-75-20-V4

Part number: 8060550

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                        | Value                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                         | Poppet valve with piston drive                                                                                                                              |
| Type of actuation              | Pneumatic                                                                                                                                                   |
| Mounting position              | optional                                                                                                                                                    |
| Type of mounting               | In-line installation                                                                                                                                        |
| Line connection                | Threaded coupling 1 1/2 NPT to ANSI/ASME B 1.20.1                                                                                                           |
| Valve function                 | 2/2                                                                                                                                                         |
| Flow direction                 | Non-reversible                                                                                                                                              |
| Medium pressure                | 0 MPa ... 0.93 MPa                                                                                                                                          |
| Medium pressure                | 0 bar ... 9.3 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                                                                                                                                        |
| Symbol                         | 00995586                                                                                                                                                    |
| Medium                         | Vapour<br>Mineral oil-based hydraulic fluid<br>Inert gases<br>Mineral oil<br>Water<br>Filtered compressed air, grade of filtration 200 µm<br>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 mm <sup>2</sup> /s                                                                                                                                      |
| Media temperature              | -10 °C ... 180 °C                                                                                                                                           |
| Ambient temperature            | 0 °C ... 60 °C                                                                                                                                              |
| Flow rate Kv                   | 41.4 m <sup>3</sup> /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                                                                                                                                     |

| Feature                                | Value                                                              |
|----------------------------------------|--------------------------------------------------------------------|
| Material number process valve housing  | ASTM A351-CF3M                                                     |
| Material seals                         | FPM                                                                |
| Material spindle seal                  | PTFE                                                               |
| Material seat seal                     | PTFE                                                               |
| Product weight                         | 4610 g                                                             |
| Approval                               | CRN                                                                |
| Explosion protection                   | Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>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                          | 75 mm                                                              |
| Stroke                                 | 20 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<br>IP67                                                       |
| Material piston rod                    | High-alloy stainless steel                                         |
| Material cover                         | Stainless steel casting                                            |