## Angle seat valve VZXA-B-TS7-1/2"-M2-B1T-30-K-46-17-PM Part number: 8111604

**FESTO** 





General operating condition

## **Data sheet**

Actuation type Pneumatic  Mounting position  Type of mounting  Line installation  Any  Line installation  Cable connection  Threaded sleeve 1/2 NPT as per ANSI/ASME B 1.20.1  2/2  Flow direction  Non-reversible  Medium pressure  O MPa 3 MPa  Medium pressure  O bar 30 bar  Reset method  Externally controlled  Pneumatic connection  Internal thread G1/8  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Symbol  Oo995586  Medium  Water  Filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction  Under valve seat, for gaseous and liquid media  Control of the medium  On/off mode  Operating medium  Longressity  On/off mode  Operating medium  Operating medium  Operating medium  On/off mode  Operating medium  Operating me	Feature	Value
Mounting position Type of mounting Line installation Cable connection Threaded sleeve 1/2 NPT as per ANSI/ASME B 1.20.1  Valve function 2/2 Flow direction Non-reversible Medium pressure O MPa 3 MPa Medium pressure O bar 30 bar Reset method Mechanical spring Type of control Perumatic connection Internal thread G1/8 Operating pressure Operating pressure Operating pressure Spring Symbol Operating pressure Type of control Perumatic connection Internal thread G1/8 Operating pressure Operating pressure Operating pressure Type in Internal thread G1/8 Operating pressure Operating pressure Type in Internal thread G1/8 Operating pressure Type in In	Structural design	Poppet valve with piston actuator
Type of mounting  Cable connection  Threaded sleeve 1/2 NPT as per ANSI/ASME B 1.20.1  Valve function  Non-reversible  Medium pressure  O MPa 3 MPa  Medium pressure  O bar 30 bar  Reset method  Mechanical spring  Type of control  Externally controlled  Pneumatic connection  Internal thread 61/8  Operating pressure  O 5 MPa 7 MPa  Operating pressure  O 5 MPa 7 Dar  Operating pressure  O 5 MPa 0,7 MPa  Operating pressure  O 10 MPa 10 List psi  Symbol  O 995586  Medium  Vapor  Hydraulic fluid based on mineral oil Inert gas Mineral oil Water  Filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction  On/off mode  Operating 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  O ° C 180 ° C  Ambient temperature  O ° C 180 ° C  Ambient temperature  O ° C 180 ° C  How rate Kv  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  LABS (PWIS) conformity  VDMA24364 zone III	Actuation type	Pneumatic
Cable connection Threaded sleeve 1/2 NPT as per ANSI/ASME B 1.20.1  Valve function 2/2 Flow direction Non-reversible Medium pressure O MPa 3 MPa Medium pressure O bar 30 bar Reset method Mechanical spring Type of control Externally controlled Pneumatic connection Internal thread G1/8 Operating pressure O 5 bar 7 bar Operating pressure 72.5 psi 101.5 psi Symbol Oopersting pressure 72.5 psi 101.5 psi Symbol Medium Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids Flow direction On/off mode Operating medium Control of the medium On/off mode Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Max. viscosity Good mm²/s Temperature of medium 10 °C 60 °C Ambient temperature O °C 60 °C Flow rate Kv Use in exterior area Weather-protected locations class C1 based on IEC 60654-1 Note on materials ROHS (WIS) conformity WDMA24364 zone III	Mounting position	Any
Valve function 2/2 Flow direction Non-reversible Medium pressure 0 MPa 3 MPa Medium pressure 0 Obar 30 bar Reset method Mechanical spring Reset method Mechanical spring Type of control Externally controlled Pneumatic connection Internal thread 61/8 Operating pressure 0.5 MPa 0.7 MPa Operating pressure 5 bar 7 bar Operating pressure 72.5 psi 101.5 psi Symbol 00995586 Medium Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids Flow direction 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 - 10 °C 180 °C Ambient temperature 0 medium - 10 °C 60 °C Flow rate Kv 4.6 m³/h Use in exterior area Weather-protected locations class C1 based on IEC 60654-1 Note on materials RoHS-compliant	Type of mounting	Line installation
Flow direction  Mon-reversible  Medium pressure  O MPa 3 MPa  Medium pressure  O bar 30 bar  Reset method  Mechanical spring  Type of control  Externally controlled  Preumatic connection  Internal thread G1/8  Operating pressure  O.5 MPa 0.7 MPa  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Tesperating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Tesperating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Tesperating pressure  Operating season  Mineral oil  Inert gas  Mineral oil  Water  Filtered compressed air, 200 µm filter mesh  Neutral liquids  Flow direction  Under valve seat, for gaseous and liquid media  On/off mode  Operating 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  -10 °C 180 °C  Ambient temperature  O °C 60 °C  Flow rate kV  4.6 m³/h  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  RoHS-compliant  VDMA24364 zone III	Cable connection	Threaded sleeve 1/2 NPT as per ANSI/ASME B 1.20.1
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 61/8  Operating pressure  0.5 MPa 0.7 MPa  Operating pressure  5 bar 7 bar  Operating pressure  7.2.5 psi 101.5 psi  Symbol  Medium  Vapor  Hydraulic fluid based on mineral oil linert gas Mineral oil water filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction  Under valve seat, for gaseous and liquid media  Control of the medium  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Max. viscosity  600 mm²/s  Temperature of medium  10° C 180° C  Anbient temperature  0° C 60° C  Flow rate KV  4.6 m³/h  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  RoHS-compliant  VDMA24364 zone III	Valve function	2/2
Medium pressure  Reset method  Mechanical spring  Externally controlled  Pneumatic connection  Internal thread G1/8  Operating pressure  Vapor Hydraulic fluid based on mineral oil Inerting as Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction  Under valve seat, for gaseous and liquid media  On/off mode  Operating 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  -10 °C 180 °C  Ambient temperature  O °C 60 °C  Flow rate KV  4.6 m³/h  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  RoHS-compliant  VDMA24364 zone III	Flow direction	Non-reversible
Reset method  Mechanical spring Type of control  Externally controlled Pneumatic connection  Internal thread G1/8 Operating pressure  O.5 MPa O.7 MPa Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  72.5 psi 101.5 psi Symbol  Operating Machieum  Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction  Under valve seat, for gaseous and liquid media  On/off mode  Operating medium  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Max. viscosity  600 mm²/s  Temperature of medium  1:0 °C 180 °C  Ambient temperature  O °C 60 °C  Flow rate Kv  4.6 m³/h  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  RoHS-compliant  VDMA24364 zone III	Medium pressure	0 MPa 3 MPa
Type of control  Externally controlled  Pneumatic connection  Internal thread G1/8  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Testing pressure  Operating pressure  Operating pressure  Testing pressure  Testin	Medium pressure	0 bar 30 bar
Pneumatic connection Internal thread G1/8 Operating pressure 0.5 MPa 0.7 MPa Operating pressure 72.5 psi 101.5 psi Symbol 00995586 Medium Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids Flow direction 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 -10 °C 180 °C Ambient temperature 0 °C 60 °C Flow rate KV 4.6 m³/h Use in exterior area Weather-protected locations class C1 based on IEC 60654-1 Note on materials RoHS-compliant VDMA24364 zone III	Reset method	Mechanical spring
Operating pressure Operating pressure Operating pressure Sbar 7 bar Operating pressure 72.5 psi 101.5 psi Symbol Operating pressure Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids Flow direction 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 -10 °C 180 °C Ambient temperature O°C 60 °C Flow rate Kv 4.6 m³/h Use in exterior area Weather-protected locations class C1 based on IEC 60654-1 Note on materials ROHS-compliant VDMA24364 zone III	Type of control	Externally controlled
Operating pressure  Operating pressure  72.5 psi 101.5 psi  Op995586  Medium  Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction  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  -10 °C 180 °C  Ambient temperature  O °C 60 °C  Flow rate Kv  4.6 m³/h  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  RoHS-compliant  VDMA24364 zone III	Pneumatic connection	Internal thread G1/8
Operating pressure       72.5 psi 101.5 psi         Symbol       00995586         Medium       Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 μm filter mesh Neutral liquids         Flow direction       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       -10 °C 180 °C         Ambient temperature       0 °C 60 °C         Flow rate KV       4.6 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	Operating pressure	0.5 MPa 0.7 MPa
Symbol 00995586  Medium Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 μm filter mesh Neutral liquids  Flow direction 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 -10 °C 180 °C  Ambient temperature  O °C 60 °C  Flow rate Kv 4.6 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	Operating pressure	5 bar 7 bar
Medium       Vapor Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 μm filter mesh Neutral liquids         Flow direction       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       -10 °C 180 °C         Ambient temperature       0 °C 60 °C         Flow rate Kv       4.6 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	Operating pressure	72.5 psi 101.5 psi
Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh Neutral liquids  Flow direction 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 -10 °C 180 °C  Ambient temperature O °C 60 °C  Flow rate Kv 4.6 m³/h Use in exterior area Weather-protected locations class C1 based on IEC 60654-1  Note on materials RoHS-compliant  VDMA24364 zone III	Symbol	00995586
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 -10 °C 180 °C Ambient temperature 0 °C 60 °C Flow rate Kv 4.6 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	Medium	Hydraulic fluid based on mineral oil Inert gas Mineral oil Water Filtered compressed air, 200 µm filter mesh
Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Max. viscosity  600 mm²/s  Temperature of medium  -10 °C 180 °C  Ambient temperature  0 °C 60 °C  Flow rate Kv  4.6 m³/h  Use in exterior area  Weather-protected locations class C1 based on IEC 60654-1  Note on materials  ROHS-compliant  VDMA24364 zone III	Flow direction	Under valve seat, for gaseous and liquid media
Max. viscosity  600 mm²/s  Temperature of medium  -10 °C 180 °C  Ambient temperature  0 °C 60 °C  Flow rate Kv  4.6 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	Control of the medium	On/off mode
Temperature of medium -10 °C 180 °C  Ambient temperature 0 °C 60 °C  Flow rate Kv 4.6 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	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature 0 °C 60 °C  Flow rate Kv 4.6 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	Max. viscosity	600 mm <sup>2</sup> /s
Flow rate Kv 4.6 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	Temperature of medium	-10 °C 180 °C
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	Ambient temperature	0 °C 60 °C
Note on materials RoHS-compliant  LABS (PWIS) conformity VDMA24364 zone III	Flow rate Kv	4.6 m³/h
LABS (PWIS) conformity VDMA24364 zone III	Use in exterior area	Weather-protected locations class C1 based on IEC 60654-1
	Note on materials	RoHS-compliant
Valve housing material Brass	LABS (PWIS) conformity	VDMA24364 zone III
	Valve housing material	Brass

Feature	Value
Material number, fitting housing	CW724R
Seals material	FPM
Spindle seal material	PTFE
Seat seal material	PTFE
Product weight	1151 g
Actuator size	46 mm
Stroke	17 mm
Control function	Closed by spring force, NC
Position sensing	With mechanical indicator
Drive housing material	PA-reinforced
Storage temperature	-10 °C 60 °C
Degree of protection	IP65 IP67
Piston rod material	High-alloy stainless steel
Cover material	PA-reinforced