## angle seat valve VZXA-A-TS6-32-M2-V13T-16-M-90-26-PR-V4 Part number: 8060516

Modular, pneumatically actuated angle seat valve in stainless steel. Over seat version, safety position closed, G thread, nominal width DN32.

## **Data sheet**

Design structure     Poppet valve with diaphragm actuator       Type of actuation     pneumatic       Assembly position     Any       Mounting type     Line installation       Line connection     G1¼ threaded collar to DIN ISO 228       Valve function     2/2       Flow direction     non reversible       Pressure of medium     01.6 MPa       Medium pressure     01.6 MPa       Type of reset     mechanical spring       Type of reset     mechanical spring       Type of piloting     With external control       Pheumatic connection     Female thread G1/8       Operating pressure MPa     0.5 7 Dar       Operating pressure     5 7 bar       Control of the medium     Vapour       Medium     Vapour       Inert gases     Filtered compressed air, degree of filtration 200 µm       Flow direction     Above valve seat, for gaseous media       Control of the medium     On/off operation       Operating medium     Compressed air in accordance with ISO8573-1:2010 [7:4:4]       Max. viscosity     600 mm2/s       Medium temperature     0 60 °C	Feature	Value
Type of actuationpneumaticAssembly positionAnyMounting typeLine installationLine connectionG1¼ threaded collar to DIN ISO 228Valve function2/2Flow directionnon reversiblePressure of medium0 1.6 MPaMedium pressure0 1.6 barType of pilotingWith external controlPressure of pilotingWith external controlPressure of pilotingFemale thread G1/8Operating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 0.7 MPaOperating pressure5 7 barMediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionOn/off operationOperating mediumCompressed air accordance with ISO8573-1:2010[7:4:4]Max. viscosity600 mm2/sMediut temperature10 180 °CAmbient temperature0 60 °CFlow rate KV35.4 m3/hOutdoor useC1 - weather protected locations of useMaterial noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial spaleMBRMaterial spale sealPTFEProduct weight6,595 g AuthorisationCE mark (see edclaration of conformity)to EU directive pressure devices	Design structure	Poppet valve with diaphragm actuator
Mounting type   Line installation     Line connection   G1¼ threaded collar to DIN ISO 228     Valve function   2/2     Flow direction   non reversible     Pressure of medium   0 1.6 MPa     Medium pressure   0 16 bar     Type of reset   mechanical spring     Type of piloting   With external control     Pneumatic connection   Female thread G1/8     Operating pressure MPa   0.5 0.7 MPa     Operating pressure   5 7 bar     Z.5 101.5 psi   Medium     Medium   Vapour     Inert gases   Filtered compressed air, degree of filtration 200 µm     Flow direction   Above valve seat, for gaseous media     Control of the medium   On/off operation     Operating medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4]     Max. viscosity   600 mm2/s     Medium temperature   -10 180 °C     Ambein temperature   -10 80 °C     Flow rate Kv   35.4 m3/h     Outdoor use   C1 - weather protected locations of use     Materials note   Conforms to RoHS     PWIS conformity   VDMA24364 zone II	Type of actuation	pneumatic
Line connectionG1¼ threaded collar to DIN ISO 228Valve function2/2Flow directionnon reversiblePressure of medium0 1.6 MPaMedium pressure0 16 barType of resetmechanical springType of plotingWith external controlPneumatic connectionFemale thread G1/8Operating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 0.7 MPaOperating pressure5 7 DarZisto and the mediumVapourInert gasesFiltered compressed air, degree of filtration 200 µmHow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterial snoteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial number, process valve housing1.4409Material spindle sealPTEMaterial spindle sealPTEPreduct weight6.595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Assembly position	Any
Line connectionG1¼ threaded collar to DIN ISO 228Valve function2/2Flow directionnon reversiblePressure of medium0 1.6 MPaMedium pressure0 16 barType of resetmechanical springType of pilotingWith external controlPneumatic connectionFemale thread G1/8Operating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 7 bar72.5 101.5 psiMediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010[7:4:4]Max. viscosity600 mm2/sMedium temperature10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material spindle sealPTEMaterial spindle sealPTEMaterial spindle sealPTEMaterial spindle sealPTEFreeMaterial spindle sealCE mark (see declaration of conformity)CRNCE mark (see declaration of conformity)CRN	Mounting type	Line installation
InvestmentInvestmentBlow direction01.6 MPaMedium pressure01.6 MPaMedium pressure016 barType of resetmechanical springType of pilotingWith external controlPneumatic connectionFemale thread G1/8Operating pressure MPa0.5 0.7 MPaOperating pressure MPa0.5 0.7 MPaOperating pressure5 7 bar72.5 101.5 psiMediumMediumVapourInert gasesFiltered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air, in accordance with IS08573-1:2010[7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate KV35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RMSPWIS conformityVDMA2364 zone IIIMaterial process valve housing1.4409Material spindle sealPTFEMaterial spindle sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		G1¼ threaded collar to DIN ISO 228
Pressure of medium   0 1.6 MPa     Medium pressure   0 16 bar     Type of reset   mechanical spring     Type of piloting   With external control     Pneumatic connection   Female thread G1/8     Operating pressure MPa   0.50.7 MPa     Operating pressure   57 MPa     Operating pressure   5011.5 psi     Medium   Vapour     Inert gases   Filtered compressed air, degree of filtration 200 µm     Flow direction   Above valve seat, for gaseous media     Control of the medium   On/off operation     Operating medium   Compressed air in accordance with IS08573-1:2010 [7:4:4]     Max. viscosity   600 mm2/s     Medium temperature   10 180 °C     Ambient temperature   0 60 °C     Flow rate Kv   35.4 m3/h     Outdor use   C1 - weather protected locations of use     Materials note   Conforms to RoHS     PWIS conformity   VDMA24364 zone III     Material process valve housing   1.4409     Material seals   NBR     Material seals   NBR     Material seals   PIFE <td< td=""><td>Valve function</td><td>2/2</td></td<>	Valve function	2/2
Medium pressure   0 16 bar     Type of reset   mechanical spring     Type of piloting   With external control     Pneumatic connection   Female thread G1/8     Operating pressure MPa   0.5 0.7 MPa     Operating pressure   5 7 bar     72.5 101.5 psi   Medium     Medium   Vapour     Inert gases   Filtered compressed air, degree of filtration 200 µm     Flow direction   Above valve seat, for gaseous media     Control of the medium   On/off operation     Operating medium   Compressed air in accordance with ISO8573-1:2010[7:4:4]     Max. viscosity   600 mm2/s     Medium temperature   -10 180 °C     Ambient temperature   0 60 °C     Flow rate Kv   35.4 m3/h     Outdor use   C1 - weather protected locations of use     Materials note   Conforms to ROHS     PWIS conformity   VDMA24364 zone III     Material spindle seal   PIFE     Material spindle seal   PIFE     Product weight   6,595 g     Authorisation   CRN     CE mark (see declaration of conformity)   to EU directive pressure devi	Flow direction	non reversible
Type of reset   mechanical spring     Type of piloting   With external control     Pneumatic connection   Female thread G1/8     Operating pressure MPa   0.5 0.7 MPa     Operating pressure   5 7 bar     72.5 101.5 psi   Medium     Wedium   Vapour     Inert gases   Filtered compressed air, degree of filtration 200 µm     Flow direction   Above valve seat, for gaseous media     Control of the medium   On/off operation     Operating medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4]     Max. viscosity   600 mm2/s     Medium temperature   -10 180 °C     Ambient temperature   0 60 °C     Flow rate Kv   35.4 m3/h     Outdoor use   C1 - weather protected locations of use     Materials note   Conforms to RoHS     PWIS conformity   VDMA24364 zone III     Material snote   NBR     Material seals   NBR     Material seals   NBR     Material seals   PTE     Product weight   6,595 g     Authorisation   CRN     CE mark (see declaration of conformity)	Pressure of medium	0 1.6 MPa
Type of pilotingWith external controlPneumatic connectionFemale thread G1/8Operating pressure MPa0.5 0.7 MPaOperating pressure5 7 bar72.5 101.5 psi72.5 101.5 psiMediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useConforms to RoHSWHS conformityVDMA24364 zone IIIMaterials noteConforms to RoHSPWIS conformityStainless steel castingMaterial sealsNBRMaterial sealsNBRMaterial sealsPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Medium pressure	0 16 bar
Type of pilotingWith external controlPneumatic connectionFemale thread G1/8Operating pressure MPa0.5 0.7 MPaOperating pressure5 7 bar72.5 101.5 psi72.5 101.5 psiMediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useConforms to RoHSWHS conformityVDMA24364 zone IIIMaterials noteConforms to RoHSPWIS conformityStainless steel castingMaterial sealsNBRMaterial sealsNBRMaterial sealsPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Type of reset	mechanical spring
Pneumatic connection   Female thread G1/8     Operating pressure MPa   0.5 0.7 MPa     Operating pressure   5 7 bar     72.5 101.5 psi     Medium   Vapour     Inert gases     Filtered compressed air, degree of filtration 200 µm     Flow direction   Above valve seat, for gaseous media     Control of the medium   On/off operation     Operating medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4]     Max. viscosity   600 mm2/s     Medium temperature   -10 180 °C     Ambient temperature   0 60 °C     Flow rate Kv   35.4 m3/h     Outdoor use   C1 - weather protected locations of use     Material process valve housing   1.4409     Material process valve housing   1.4409     Material seals   NBR     Material seals   NBR     Material seals   PTFE     Product weight   6,595 g     Authorisation   CRN     CE mark (see declaration of conformity)   to EU directive pressure devices		With external control
Operating pressure5 7 bar 72.5 101.5 psiMediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConfroms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material spindle sealPTFEMaterial spindle sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Operating pressure   5 7 bar     72.5 101.5 psi     Medium   Vapour     Inert gases     Filtered compressed air, degree of filtration 200 µm     Flow direction   Above valve seat, for gaseous media     Control of the medium   On/off operation     Operating medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4]     Max. viscosity   600 mm2/s     Medium temperature   -10 180 °C     Ambient temperature   0 60 °C     Flow rate Kv   35.4 m3/h     Outdoor use   C1 - weather protected locations of use     Materials note   Confroms to RoHS     PWIS conformity   VDMA24364 zone III     Material process valve housing   1.4409     Material number, process valve housing   1.4409     Material spindle seal   PTFE     Material spindle seal   PTFE     Material spindle seal   PTFE     Product weight   6,595 g     Authorisation   CRN     CE mark (see declaration of conformity)   to EU directive pressure devices	Operating pressure MPa	0.5 0.7 MPa
72.5 101.5 psiMediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010[7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useConforms to RoHSMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material sealsNBRMaterial sealsPTFEMaterial sealsPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
MediumVapour Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with IS08573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material sealsNBRMaterial sealsPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		72.5 101.5 psi
Inert gases Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material sealsNBRMaterial sealsPTFEMaterial sealsPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Medium	
Filtered compressed air, degree of filtration 200 µmFlow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial sealsPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Flow directionAbove valve seat, for gaseous mediaControl of the mediumOn/off operationOperating mediumCompressed air in accordance with IS08573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConformityVDMA24364 zone IIIMaterial process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial spindle sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Control of the mediumOn/off operationOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Flow direction	, _ ,
Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material sealsNBRMaterial sealsPTFEMaterial sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Max. viscosity600 mm2/sMedium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial sealsNBRMaterial sealsCTFEMaterial sealCTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Medium temperature-10 180 °CAmbient temperature0 60 °CFlow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housingStainless steel castingMaterial number, process valve housing1.4409Material spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	, _	
Flow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housingStainless steel castingMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	,	-10 180 °C
Flow rate Kv35.4 m3/hOutdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housingStainless steel castingMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		0 60 °C
Outdoor useC1 - weather protected locations of useMaterials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housingStainless steel castingMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Materials noteConforms to RoHSPWIS conformityVDMA24364 zone IIIMaterial process valve housingStainless steel castingMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Outdoor use	
Material process valve housingStainless steel castingMaterial number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Materials note	
Material number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	PWIS conformity	VDMA24364 zone III
Material number, process valve housing1.4409Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices	Material process valve housing	Stainless steel casting
Material sealsNBRMaterial spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Material spindle sealPTFEMaterial seat sealPTFEProduct weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Material seat seal PTFE   Product weight 6,595 g   Authorisation CRN   CE mark (see declaration of conformity) to EU directive pressure devices		
Product weight6,595 gAuthorisationCRNCE mark (see declaration of conformity)to EU directive pressure devices		
Authorisation CRN   CE mark (see declaration of conformity) to EU directive pressure devices		
CE mark (see declaration of conformity) to EU directive pressure devices		-
I UKCA marking (see declaration of conformity)	UKCA marking (see declaration of conformity)	UK regulation for pressure equipment
Certificate issuing department TÜV 968/V 1039.01/20		
Safety Integrity Level (SIL) SIL 2		
Probability of Failure per Hour in [1/h]. 1.36E-07		
PFD (Probability of Failure on Demand) 5.95E-04		
Actuator size 90 mm		
Stroke 26 mm		





## **FESTO**

Feature	Value
Control function	Closed via reduced spring force, NC
Position detection	With mechanical indicator
Material drive housing	Stainless steel casting
Material number, actuator housing	1.4408
Storage temperature	-10 60 °C
Protection class	IP65
	IP67
Material piston rod	High alloy steel, non-corrosive
Material cover	Stainless steel casting