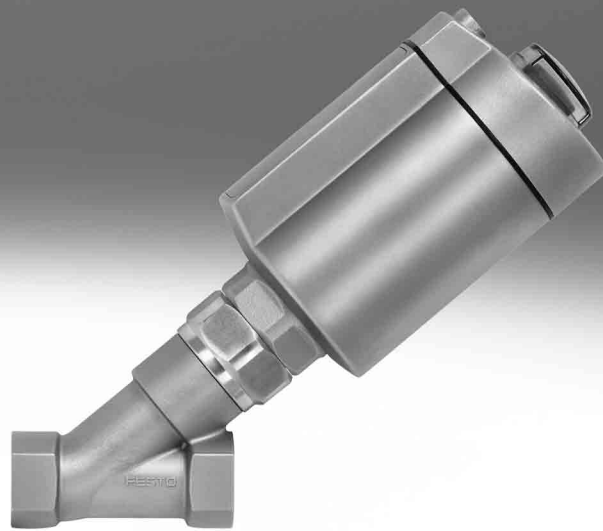


Angle seat valves VZXA

FESTO



Angle seat valves VZXA

Key features

FESTO

Function

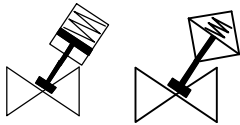
The angle seat valves VZXA are externally actuated valves which are controlled by a direct supply of compressed air and are used to shut

off gaseous or liquid media in pipe systems. In the process, a spindle with a soft-sealing valve disc is raised and lowered with the aid of a

pneumatic actuator. In all the versions mentioned below, the valve seat is slanted around 40° toward the

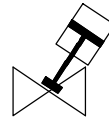
medium flow. The flow direction is determined by the design of the valve (process valve and actuator).

NC version (normally closed)



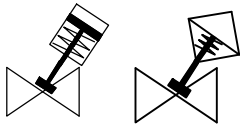
In the normal position, the valve is closed by springs. When the actuator is supplied with operating pressure, it raises the control piston and, at the same time, the valve disc too – this opens the valve.

DA version (double acting)



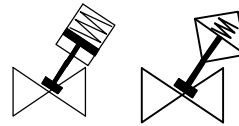
The control function is performed by reciprocal pneumatic actuation of the actuator chambers. Only available with the piston actuator.

NO version (normally open)



In the normal position, the valve is opened by a spring. When the actuator is supplied with operating pressure, it lowers the control piston and, at the same time, the valve disc, too – this closes the valve.

NC version (normally closed) with reduced spring force



In the normal position the valve is closed by a spring (reduced spring force for low operating pressures). When the actuator is supplied with operating pressure, it raises the control piston and, at the same time, the valve disc too – this opens the valve.

Economical

- Modular design
- Hygienic design, insensitive to dirt
- Long service life
- Quick and easy maintenance
- High flow rates achievable

Flexible

- Control of medium flows (gaseous and liquid) in closed and open circuits
- The angle seat valves VZXA are simple and sturdy and are thus perfectly suitable for almost all media with a viscosity of up to 600 mm²/s
- Angle seat valves VZXA made from stainless steel with PTFE seals have high chemical and thermal resistance
- Temperature of medium –10 ... +180 °C

Design

- G thread to DIN ISO 228-1 Parallel Whitworth pipe thread, non-metallic seal: must either be provided with an annular seal outside the thread or must be sealed by wrapping the thread with PTFE or hemp
- NPT thread to ANSI/ASME B 1.20.1 American tapered pipe thread with sealing material in the thread, female thread tapered, male thread tapered
- Rc thread to DIN 10226-2 Pipe thread for fittings sealing in the thread, female thread tapered, male thread tapered

- Connection sizes DN13 ... DN50 and 1/2" ... 2"
- Medium pressure: 0 ... 30 bar
- Operating pressure: 5 ... 10 bar
- Threaded collar connection
- ATEX

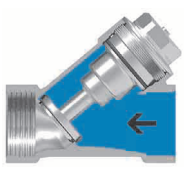



- Piston actuator with low space requirement, can close against pressures up to 10 bar, in actuator sizes 46 mm and 75 mm
- Diaphragm actuator without stick-slip effect, ideal for high force requirements and control applications, in actuator size 90 mm
- Note: The interface screws between the valve body and the piston and diaphragm actuators are identical to spanner size AF46

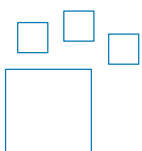


Angle seat valves VZXA

Product range overview

Product range overview			
	Type code	Control function	Flow direction
	VZXA-A...	<ul style="list-style-type: none"> Closed via reduced spring force, N/C 	<ul style="list-style-type: none"> Over valve seat For gaseous media, "closing in the direction of medium flow" is used
	VZXA-B...	<ul style="list-style-type: none"> Closed via spring force, NC Opened via spring force, NO Double-acting, DA 	<ul style="list-style-type: none"> Under valve seat For gaseous and liquid media, "closing against the direction of medium flow" is used in order to prevent or reduce water hammer effects

Ordering data – Product options



Configurable product
This product and all its product options can be ordered using the configurator.

The configurator can be found under Products on the DVD or
[→ www.festo.com/catalogue/...](http://www.festo.com/catalogue/...)

Part No. Type code
3539410 VZXA

Angle seat valves VZXA

Type codes

FESTO

VZXA - A - - T S7 - 1/2" - M2 - V14 T

Type

VZXA	Process valve
------	---------------

Direction of flow

A	Above valve seat for gaseous media
B	Below valve seat for gaseous and liquid media

Control of the medium

-	On/off operation
---	------------------

Line connection

T	Threaded collar
---	-----------------

Connection standard

S6	DIN ISO 228-1
S7	ANSI/ASME B 1.20.1
S13	DIN 10226

Connection size

1/2"	1/2"
3/4"	3/4"
1"	1"
1 1/2"	1 1/2"
1 1/4"	1 1/4"
2"	2"
13	DN13
20	DN20
25	DN25
32	DN32
40	DN40
50	DN50

Temperature of medium

M2	-10 to +180 °C
----	----------------

Valve housing material

V13	Stainless steel 1.4409
V14	Stainless steel ASTM A351-CF3M

Seat seal material

T	PTFE
---	------

Angle seat valves VZXA

Type codes

- 16 - K - 46 - 17 - PR - - V4 -

Medium pressure	
4	0 ... 4 bar
4,4	0 ... 4.4 bar
4,8	0 ... 4.8 bar
5,6	0 ... 5.6 bar
5,8	0 ... 5.8 bar
6	0 ... 6 bar
6,2	0 ... 6.2 bar
6,8	0 ... 6.8 bar
7,5	0 ... 7.5 bar
8	0 ... 8 bar
8,3	0 ... 8.3 bar
9,3	0 ... 9.3 bar
10	0 ... 10 bar
11,5	0 ... 11.5 bar
12,2	0 ... 12.2 bar
12,8	0 ... 12.8 bar
13,5	0 ... 13.5 bar
14,5	0 ... 14.5 bar
15,5	0 ... 15.5 bar
16	0 ... 16 bar
23	0 ... 23 bar
25	0 ... 25 bar
30	0 ... 30 bar

Actuator	
K	Piston actuator
M	Diaphragm actuator

Actuator size	
46	46 mm
75	75 mm
90	90 mm

Stroke	
17	17 mm
20	20 mm
26	26 mm

Control function	
-	Closed via spring force, NC
D	Double-acting
S	Opened via spring force, NO
PR	Closed via reduced spring force, NC

Position sensing	
-	With mechanical indicator

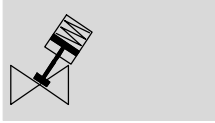
Actuator housing material	
V4	Stainless steel 1.4408

EU certification	
-	None
EX4	II 2GD

Angle seat valves VZXA with piston actuator

Technical data

Function



- Poppet valve with piston actuator
- Line connection
1/2" ... 2", DN13 ... DN50
- Stroke
17 ... 20 mm



General technical data		DN13, 1/2"	DN20, 3/4"	DN25, 1"		DN32, 1 1/4"		DN40, 1 1/2"	DN50, 2"	
Line connection										
Actuator		D46	D46	D75	D46	D75	D46	D75	D75	
Flow rate Kv	VZXA-A-... [m³/h]	6.6	–	14.5	–	21.5	–	–	–	
	VZXA-B-... [m³/h]	6	13.3	13.5	20.3	22.6	27.9	30.3	41.4	
Design		Poppet valve with piston actuator								
Type of actuation		Pneumatic								
Type of mounting		In-line installation								
Mounting position		Any								
Valve function		2/2								
Pneumatic connection		Female thread G1/8								
Flow direction		Non-reversible								
Reset method		Mechanical spring								
Type of actuation		Externally actuated								
Position sensing		With mechanical indicator								
Control of the medium		On/off operation								
Control function	VZXA-A-...	Closed via reduced spring force, NC								
	VZXA-B-...	Closed via spring force, NC								
Direction of flow	VZXA-A-...	Above valve seat for gaseous media								
	VZXA-B-...	Below valve seat for gaseous and liquid media								

Angle seat valves VZXA with piston actuator

Technical data

Operating and environmental conditions		
Operating pressure	[bar]	5 ... 10
Ambient temperature	[°C]	0 ... +60
Temperature of medium	[°C]	-10 ... +180
Storage temperature	[°C]	-10 ... +60
CE mark (see declaration of conformity) ¹⁾		To EU Machinery Directive
Degree of protection		IP65 IP67 IP69K
Max. viscosity	[mm ² /s]	600
Medium		Vapour Inert gases Filtered compressed air, grade of filtration 200 µm
	VZXA-B-... additionally	Mineral oil-based hydraulic oil Mineral oil Water Neutral fluids
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Safety Integrity Level (SIL)		SIL 2
PFH		0.00000014
PFD		0.000595
Certificate issuing authority		TÜV 968/V 1039.00/18

1) Additional information www.festo.com/sp → Certificates.

ATEX ¹⁾						
Connection size	DN13, 1/2"	DN20, 3/4"	DN25, 1"	DN32, 1 1/4"	DN40, 1 1/2"	DN50, 2"
ATEX category for gas	II 2G					
Type of ignition protection for gas	c T6 ... T3 X					
ATEX category for dust	II 2D					
Type of ignition protection for dust	c T80°C ... T200°C X					
Explosion ambient temperature	[°C] 0°C ≤ Ta ≤ +60°C					

1) Specified types → www.festo.com

Angle seat valves VZXA with piston actuator

Technical data

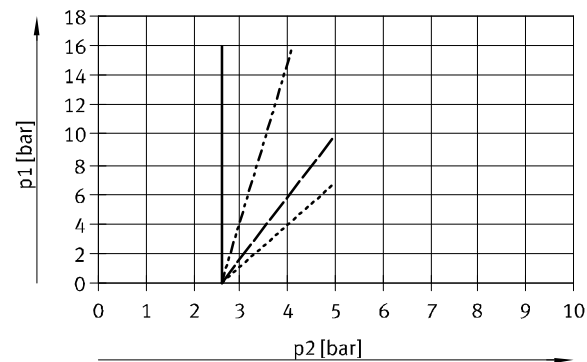
Materials	Material number	
Piston rod	High-alloy stainless steel	
End cap	Stainless steel casting	
Seals	FPM	
Spindle washer	PTFE	
Seat seal	PTFE	
Actuator housing	Stainless steel casting	1.4408
Valve housing	Stainless steel casting	1.4409
		ASTM A351-CF3M
Note on materials	Contains paint-wetting impairment substances	
	RoHS compliant	

Actuator size	Max. medium pressure [bar]		Min. operating pressure [bar]	
	46 mm	75 mm	46 mm	75 mm
DN13, 1/2"	30	–	4.8	–
DN20, 3/4"	12.8	30	4.8	4.6
DN25, 1"	8.3	23	4.8	4.6
DN32, 1 1/4"	4.4	13.5	4.8	4.6
DN40, 1 1/2"	–	9.3	–	4.6
DN50, 2"	–	5.6	–	4.6

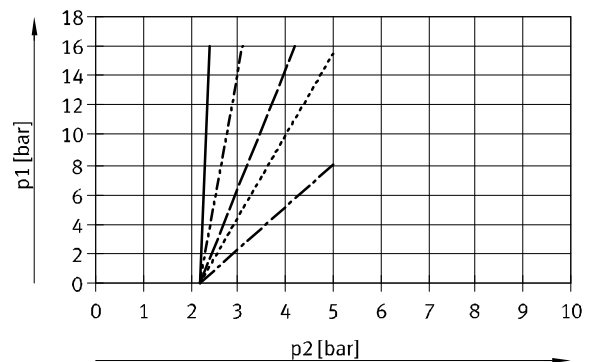
Permissible operating pressure p2 as a function of medium pressure p1 for control function NC, VZXA-A-...

Piston actuator size 46 mm

Piston actuator size 75 mm



- DN13, 1/2"
- - - DN20, 3/4"
- DN25, 1"
- - - DN32, 1 1/4"



- DN20, 3/4"
- - - DN25, 1"
- DN32, 1 1/4"
- - - DN40, 1 1/2"
- - - DN50, 2"

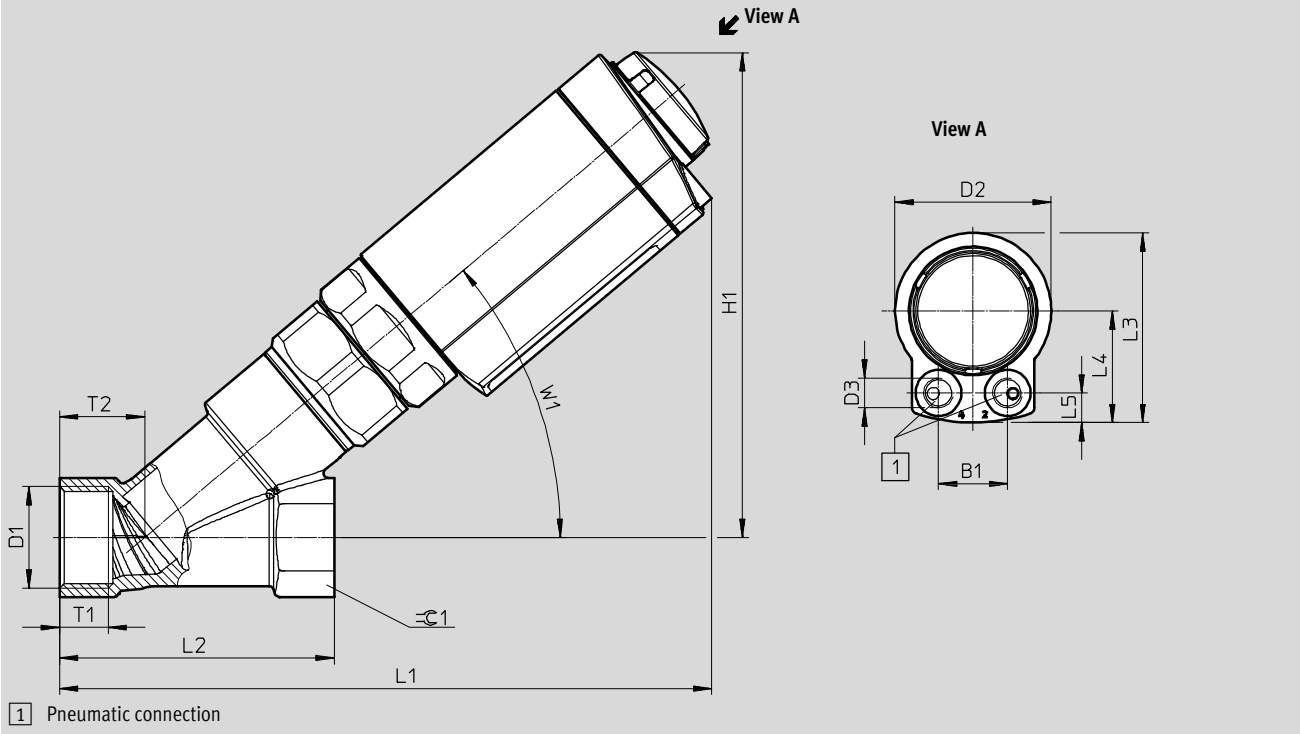
Angle seat valves VZXA with piston actuator

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	D1			D2 Ø	D3	H1	L1	L2
		S6	S7	S13					
VZXA-A-...-13-...-16-...-46-17-...	22.6	G1/2	1/2 NPT	Rc1/2	51	G1/8	159	202	65
VZXA-A-...-20-...-16-...-75-20-...	41	G3/4	3/4 NPT	Rc3/4	82.6		187	234	75
VZXA-A-...-25-...-16-...-75-20-...	41	G1	1" NPT	Rc1	82.6		192	244	90
VZXA-B-...-13-...-30-...-46-17-...	22.6	G1/2	1/2 NPT	Rc1/2	51		159	202	65
VZXA-B-...-20-...-12.8-...-46-17-...	22.6	G3/4	3/4 NPT	Rc3/4	51		158	203	75
VZXA-B-...-20-...-30-...-75-20-...	41	G3/4	3/4 NPT	Rc3/4	82.6		187	234	75
VZXA-B-...-25-...-8.3-...-46-17-...	22.6	G1	1" NPT	Rc1	51		164	214	90
VZXA-B-...-25-...-23-...-75-20-...	41	G1	1" NPT	Rc1	82.6		192	244	90
VZXA-B-...-32-...-4.4-...-46-17-...	22.6	G11/4	11/4 NPT	Rc11/4	51		168	218	110
VZXA-B-...-32-...-13.5-...-75-20-...	41	G11/4	11/4 NPT	Rc11/4	82.6		198	248	110
VZXA-B-...-40-...-9.3-...-75-20-...	41	G11/2	11/2 NPT	Rc11/2	82.6		216	270	120
VZXA-B-...-50-...-5.6-...-75-20-...	41	G2	2" NPT	Rc2	82.6		215	286	150

Type	L3	L4	L5	T1			T2	W1	C1
				S6	S7	S13			
VZXA-A-...-13-...-16-...-46-17-...	62	36.5	26.8	14	13.7	13.2	21.5	40	25
VZXA-A-...-20-...-16-...-75-20-...	94.4	53.1	41	16	14	14.5	24	40	32
VZXA-A-...-25-...-16-...-75-20-...	94.4	53.1	41	16	16.8	16.8	28	40	41
VZXA-B-...-13-...-30-...-46-17-...	62	36.5	26.8	14	13.7	13.2	21.5	40	25
VZXA-B-...-20-...-12.8-...-46-17-...	62	36.5	26.8	16	14	14.5	24	40	32
VZXA-B-...-20-...-30-...-75-20-...	94.4	53.1	41	16	14	14.5	24	40	32
VZXA-B-...-25-...-8.3-...-46-17-...	62	36.5	26.8	16	16.8	16.8	28	40	41
VZXA-B-...-25-...-23-...-75-20-...	94.4	53.1	41	16	16.8	16.8	28	40	41
VZXA-B-...-32-...-4.4-...-46-17-...	62	36.5	26.8	20	17.3	19.1	36	42	50
VZXA-B-...-32-...-13.5-...-75-20-...	94.4	53.1	41	20	17.3	19.1	36	42	50
VZXA-B-...-40-...-9.3-...-75-20-...	94.4	53.1	41	22	17.3	19.1	38	42	55
VZXA-B-...-50-...-5.6-...-75-20-...	94.4	53.1	41	24	17.6	23.4	43	40	65

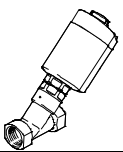
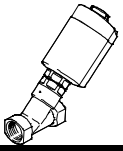
Angle seat valves VZXA with piston actuator

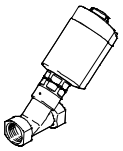
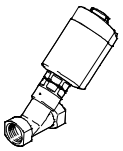
Technical data

Ordering data

Key features:

- Control function closed via spring force, NC
- Without ATEX certification

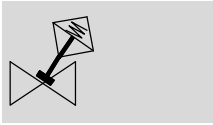
VZXA-A-..., flow direction above valve seat		Flow rate Kv [m ³ /h]	Medium pressure [bar]	Weight [g]	Part No.	Type
G thread to DIN ISO 228-1						
	DN13, 46 mm actuator	6.6	0 ... 16	1775	8060513	VZXA-A-TS6-13-M2-V13T-16-K-46-17-PR-V4
	DN20, 75 mm actuator	14.5		3155	8060514	VZXA-A-TS6-20-M2-V13T-16-K-75-20-PR-V4
	DN25, 75 mm actuator	21.5		3395	8060515	VZXA-A-TS6-25-M2-V13T-16-K-75-20-PR-V4
NPT thread to ANSI/ASME B 1.20.1						
	1/2", 46 mm actuator	6.6	0 ... 16	1775	8060520	VZXA-A-TS7-1/2"-M2-V14T-16-K-46-17-PR-V4
	3/4", 75 mm actuator	14.5		3155	8060521	VZXA-A-TS7-3/4"-M2-V14T-16-K-75-20-PR-V4
	1", 75 mm actuator	21.5		3395	8060522	VZXA-A-TS7-1"-M2-V14T-16-K-75-20-PR-V4

VZXA-B-..., flow direction below valve seat		Flow rate Kv [m ³ /h]	Medium pressure [bar]	Weight [g]	Part No.	Type
G thread to DIN ISO 228-1						
	DN13, 46 mm actuator	6	0 ... 30	1830	8060527	VZXA-B-TS6-13-M2-V13T-30-K-46-17-V4
	DN20, 46 mm actuator	13.3	0 ... 12.8	1910	8060528	VZXA-B-TS6-20-M2-V13T-12.8-K-46-17-V4
	DN20, 75 mm actuator	13.5	0 ... 30	3360	8060529	VZXA-B-TS6-20-M2-V13T-30-K-75-20-V4
	DN25, 46 mm actuator	20.3	0 ... 8.3	2150	8060530	VZXA-B-TS6-25-M2-V13T-8.3-K-46-17-V4
	DN25, 75 mm actuator	22.6	0 ... 23	3600	8060531	VZXA-B-TS6-25-M2-V13T-23-K-75-20-V4
	DN32, 46 mm actuator	27.9	0 ... 4.4	2480	8060533	VZXA-B-TS6-32-M2-V13T-4.4-K-46-17-V4
	DN32, 75 mm actuator	30.3	0 ... 13.5	3930	8060534	VZXA-B-TS6-32-M2-V13T-13.5-K-75-20-V4
	DN40, 75 mm actuator	41.4	0 ... 9.3	4610	8060536	VZXA-B-TS6-40-M2-V13T-9.3-K-75-20-V4
	DN50, 75 mm actuator	50.1	0 ... 5.6	5430	8060538	VZXA-B-TS6-50-M2-V13T-5.6-K-75-20-V4
NPT thread to ANSI/ASME B 1.20.1						
	1/2", 46 mm actuator	6	0 ... 30	1830	8060541	VZXA-B-TS7-1/2"-M2-V14T-30-K-46-17-V4
	3/4", 46 mm actuator	13.3	0 ... 12.8	1910	8060542	VZXA-B-TS7-3/4"-M2-V14T-12.8-K-46-17-V4
	3/4", 75 mm actuator	13.5	0 ... 30	3360	8060543	VZXA-B-TS7-3/4"-M2-V14T-30-K-75-20-V4
	1", 46 mm actuator	20.3	0 ... 8.3	2150	8060544	VZXA-B-TS7-1"-M2-V14T-8.3-K-46-17-V4
	1", 75 mm actuator	22.6	0 ... 23	3600	8060545	VZXA-B-TS7-1"-M2-V14T-23-K-75-20-V4
	1 1/4", 46 mm actuator	27.9	0 ... 4.4	2480	8060547	VZXA-B-TS7-1 1/4"-M2-V14T-4.4-K-46-17-V4
	1 1/4", 75 mm actuator	30.3	0 ... 13.5	3930	8060548	VZXA-B-TS7-1 1/4"-M2-V14T-13.5-K-75-20-V4
	1 1/2", 75 mm actuator	41.4	0 ... 9.3	4610	8060550	VZXA-B-TS7-1 1/2"-M2-V14T-9.3-K-75-20-V4
	2", 75 mm actuator	50.1	0 ... 5.6	5430	8060552	VZXA-B-TS7-2"-M2-V14T-5.6-K-75-20-V4

Angle seat valves VZXA, with diaphragm actuator

Technical data

Function



- Poppet valve with diaphragm actuator
- In-line installation
1/2" ... 2", DN13 ... DN50
- Stroke
26 mm



General technical data		DN25, 1"	DN32, 1 1/4"	DN40, 1 1/2"	DN50, 2"
In-line installation					
Actuator size	[mm]	90			
Flow rate Kv	VZXA-A-... [m³/h]	–	35.4	47.4	68.5
	VZXA-B-... [m³/h]	23.6	33.1	49	60.4
Design		Poppet valve with diaphragm actuator			
Actuation type		Pneumatic			
Type of mounting		In-line installation			
Mounting position		Any			
Valve function		2/2			
Pneumatic connection		Female thread G1/8			
Flow direction		Non-reversible			
Reset method		Mechanical spring			
Type of control		Externally controlled			
Position sensing		Via mechanical indicator			
Control of the medium		On/off operation			
Control function	VZXA-A-...	–	Closed via reduced spring force, NC		
	VZXA-B-...	Closed via spring force, NC			
Flow direction	VZXA-A-...	–	Over valve seat, for gaseous media		
	VZXA-B-...	Under valve seat, for gaseous and liquid media			

Angle seat valves VZXA, with diaphragm actuator

Technical data

Operating and environmental conditions		
Operating pressure	[bar]	5 ... 7
Ambient temperature	[°C]	0 ... +60
Temperature of medium	[°C]	-10 ... +180
Storage temperature	[°C]	-10 ... +60
CE marking (see declaration of conformity) ¹⁾		To the EU Machinery Directive
Degree of protection		IP65
		IP67
		IP69K
Max. viscosity	[mm ² /s]	600
Medium		Vapour
		Inert gases
		Filtered compressed air, grade of filtration 200 µm
	VZXA-B-... additionally	Mineral oil-based hydraulic oil
		Mineral oil
		Water
		Neutral fluids
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Safety integrity level (SIL)		SIL 2
PFH		0.00000014
PFD		0.000595
Certificate issuing authority		TÜV 968/V 1039.00/18

1) Additional information www.festo.com/sp → Certificates.

ATEX ¹⁾		
ATEX category for gas		II 2G
Type of ignition protection for gas		c T6 ... T3 X
ATEX category for dust		II 2D
Type of ignition protection for dust		c T80°C ... T200 °C X
Explosion ambient temperature	[°C]	0°C ≤ Ta ≤ +60 °C

1) Selected types → www.festo.com

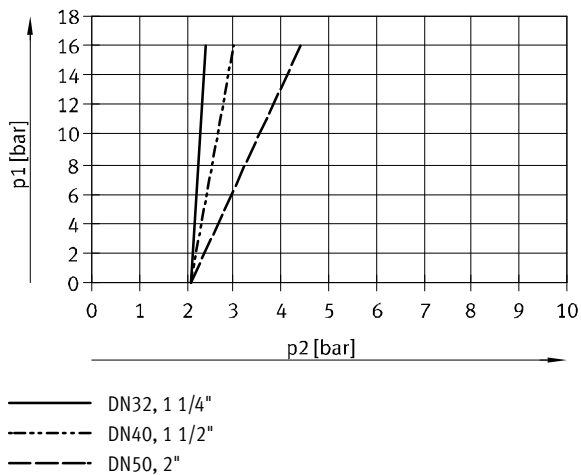
Angle seat valves VZXA, with diaphragm actuator

Technical data

Materials		Material number
Piston rod	High-alloy stainless steel	
Cover	Stainless steel casting	
Seals	NBR	
Stem seal	PTFE	
Seat seal	PTFE	
Actuator housing	Stainless steel casting	1.4408
Valve housing	Stainless steel casting	1.4409
		ASTM A351-CF3M
Note on materials	Contains paint-wetting impairment substances	
	RoHS-compliant	

Permissible operating pressure as a function of medium pressure for control function NC, VZXA-B-...		
	Min. operating pressure [bar]	Max. medium pressure [bar]
Actuator size	90 mm	
DN25, 1"	5	30
DN32, 1 1/4"	5	25
DN40, 1 1/2"	5	16
DN50, 2"	5	10

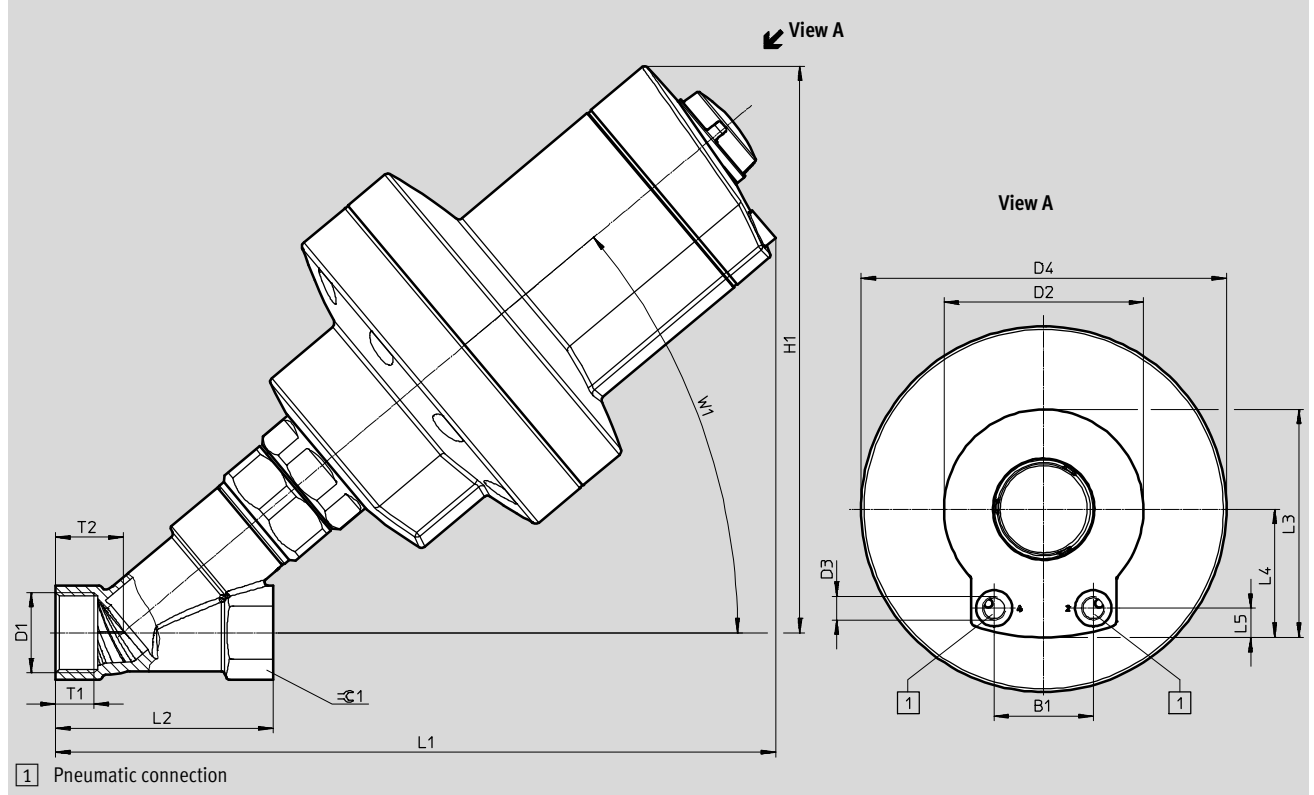
Permissible operating pressure p2 as a function of medium pressure p1 for control function NC, VZXA-A-...
Diaphragm actuator size 90 mm



Angle seat valves VZXA, with diaphragm actuator

Technical data

Dimensions Download CAD data → www.festo.com
 Size 90 mm



Type	B1	D1			D2 Ø	D3	D4 Ø	H1	L1	L2
		S6	S7	S13						
VZXA-A-...-32-...-16-...-PR-...	41	G1 1/4	1 1/4 NPT	Rc1 1/4	82.6	G1/8	151.3	245	300	110
VZXA-A-...-40-...-16-...-PR-...	41	G1 1/2	1 1/2 NPT	Rc1 1/2	82.6	G1/8	151.3	263	322	120
VZXA-A-...-50-...-16-...-PR-...	41	G2	2 NPT	Rc2	82.6	G1/8	151.3	260	340	150
VZXA-A-...-65-...-8-...-PR-...	41	G2 1/2	2 1/2 NPT	Rc2 1/2	82.6	G1/8	151.3	273	366	190
VZXA-B-...-25-...-30-...	41	G1	1 NPT	Rc1	82.6	G1/8	151.3	238	298	90
VZXA-B-...-32-...-25-...	41	G1 1/4	1 1/4 NPT	Rc1 1/4	82.6	G1/8	151.3	245	300	110
VZXA-B-...-40-...-16-...	41	G1 1/2	1 1/2 NPT	Rc1 1/2	82.6	G1/8	151.3	263	322	120
VZXA-B-...-50-...-10-...	41	G2	2 NPT	Rc2	82.6	G1/8	151.3	260	340	150

Type	L3	L4	L5	T1			T2	W1	≈C1
				S6	S7	S13			
VZXA-A-...-32-...-16-...-PR-...	94.4	53.1	12.1	20	17.3	19.1	36	42	50
VZXA-A-...-40-...-16-...-PR-...	94.4	53.1	12.1	22	17.3	19.1	38	42	55
VZXA-A-...-50-...-16-...-PR-...	94.4	53.1	12.1	24	17.6	23.4	43	40	65
VZXA-A-...-65-...-8-...-PR-...	94.4	53.1	12.1	27	24	27	53	40	85
VZXA-B-...-25-...-30-...	94.4	53.1	12.1	16	16.8	16.8	28	40	41
VZXA-B-...-32-...-25-...	94.4	53.1	12.1	20	17.3	19.1	36	42	50
VZXA-B-...-40-...-16-...	94.4	53.1	12.1	22	17.3	19.1	38	42	55
VZXA-B-...-50-...-10-...	94.4	53.1	12.1	24	17.6	23.4	43	40	65

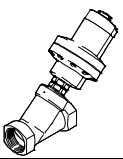
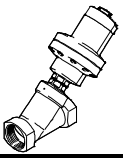
Angle seat valves VZXA, with diaphragm actuator

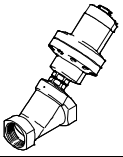
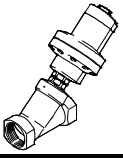
Technical data

Ordering data

Key features:

- Control function closed via spring force, NC
- Without ATEX certification

VZXA-A-..., flow direction above the valve seat		Flow rate Kv [m ³ /h]	Medium pressure [bar]	Weight [g]	Part No.	Type
G thread to DIN ISO 228-1						
	DN32, 90 mm actuator	35.4	0 ... 16	6595	8060516	VZXA-A-TS6-32-M2-V13T-16-M-90-26-PR-V4
	DN40, 90 mm actuator	47.4	0 ... 16	7275	8060517	VZXA-A-TS6-40-M2-V13T-16-M-90-26-PR-V4
	DN50, 90 mm actuator	68.5	0 ... 16	8095	8060518	VZXA-A-TS6-50-M2-V13T-16-M-90-26-PR-V4
NPT thread to ANSI/ASME B 1.20.1						
	1 1/4", 90 mm actuator	35.4	0 ... 16	6595	8060523	VZXA-A-TS7-11/4"-M2-V14T-16-M-90-26-PR-V4
	1 1/2", 90 mm actuator	47.4	0 ... 16	7275	8060524	VZXA-A-TS7-11/2"-M2-V14T-16-M-90-26-PR-V4
	2", 90 mm actuator	68.5	0 ... 16	8095	8060525	VZXA-A-TS7-2"-M2-V14T-16-M-90-26-PR-V4

VZXA-B-..., flow direction below the valve seat		Flow rate Kv [m ³ /h]	Medium pressure [bar]	Weight [g]	Part No.	Type
G thread to DIN ISO 228-1						
	DN25, 90 mm actuator	23.6	0 ... 30	6780	8060532	VZXA-B-TS6-25-M2-V13T-30-M-90-26-V4
	DN32, 90 mm actuator	33.1	0 ... 25	7110	8060535	VZXA-B-TS6-32-M2-V13T-25-M-90-26-V4
	DN40, 90 mm actuator	49	0 ... 16	7790	8060537	VZXA-B-TS6-40-M2-V13T-16-M-90-26-V4
	DN50, 90 mm actuator	60.4	0 ... 10	8610	8060539	VZXA-B-TS6-50-M2-V13T-10-M-90-26-V4
NPT thread to ANSI/ASME B 1.20.1						
	1", 90 mm actuator	23.6	0 ... 30	6780	8060546	VZXA-B-TS7-1"-M2-V14T-30-M-90-26-V4
	1 1/4", 90 mm actuator	33.1	0 ... 25	7110	8060549	VZXA-B-TS7-11/4"-M2-V14T-25-M-90-26-V4
	1 1/2", 90 mm actuator	49	0 ... 16	7790	8060551	VZXA-B-TS7-11/2"-M2-V14T-16-M-90-26-V4
	2", 90 mm actuator	60.4	0 ... 10	8610	8060553	VZXA-B-TS7-2"-M2-V14T-10-M-90-26-V4

Angle seat valves VZXA

Ordering data – Modular product system

FESTO

Ordering table					
VZXA-...			Condi- tions	Code	Entry code
M	Module no.	3539410			
	Product type	VZXA		VZXA	VZXA
	Flow direction	Over valve seat, for gaseous media		-A	
		Under valve seat, for gaseous and liquid media		-B	
O	Control of the medium	On/off operation			
M	Line connection	Threaded collar		-T	-T
	Connection standard	DIN ISO 228-1		S6	
		ANSI/ASME B 1.20.1		S7	
		DIN 10226-2		S13	
	Connection size	DN13	4	-13	
		DN20	4	-20	
		DN25	4	-25	
		DN32	4	-32	
		DN40	4	-40	
		DN50	4	-50	
		1/2"	1	-1/2"	
		3/4"	1	-3/4"	
		1"	1	-1"	
		1 1/4"	1	-1 1/4"	
		1 1/2"	1	-1 1/2"	
		2"	1	-2"	
	Temperature of medium [°C]	-10 ... +180		-M2	
	Valve housing material	Stainless steel 1.4409	2	-V13	
		Stainless steel ASTM A351-CF3M	3	-V14	
↓	Seat seal material	PTFE		T	

- | | |
|---|--------------------------------------|
| 1 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" | Not with connection standard S6, S13 |
| 2 V13 | Not with imperial connection size |
| 3 V14 | Not with metric connection size |
| 4 DN13, 20, 25, 32, 40, 50 | Not with connection standard S7 |

- M** Mandatory data
- O** Options

Transfer order code

VZXA - [] - [] - T [] - [] - [] - [] []

Angle seat valves VZXA

Ordering data – Modular product system

Ordering table			Condi- tions	Code	Entry code
VZXA-...					
↓ [M]	Medium pressure	[bar] 0 ... 4	[5]	-4	
		[bar] 0 ... 4.4	[5]	-4.4	
		[bar] 0 ... 4.8	[5]	-4.8	
		[bar] 0 ... 5.6	[5]	-5.6	
		[bar] 0 ... 5.8	[5]	-5.8	
		[bar] 0 ... 6	[5]	-6	
		[bar] 0 ... 6.2	[5]	-6.2	
		[bar] 0 ... 6.8	[6]	-6.8	
		[bar] 0 ... 7.5	[5]	-7.5	
		[bar] 0 ... 8	[6]	-8	
		[bar] 0 ... 8.3	[5]	-8.3	
		[bar] 0 ... 9.3	[5]	-9.3	
		[bar] 0 ... 10	[5]	-10	
		[bar] 0 ... 11.5	[5]	-11.5	
		[bar] 0 ... 12.2	[5]	-12.2	
		[bar] 0 ... 12.8	[5]	-12.8	
		[bar] 0 ... 13.5	[5]	-13.5	
		[bar] 0 ... 14.5	[5]	-14.5	
		[bar] 0 ... 15.5	[6]	-15.5	
		[bar] 0 ... 16		-16	
		[bar] 0 ... 23	[7], [5]	-23	
		[bar] 0 ... 25	[7], [5]	-25	
		[bar] 0 ... 30	[8], [5]	-30	
	Actuator	Piston actuator		-K	
		Diaphragm actuator		-M	
	Actuator size	[mm] 46	[13]	-46	
		[mm] 75	[13]	-75	
		[mm] 90	[14]	-90	
	Stroke	[mm] 17	[9]	-17	
		[mm] 20	[10]	-20	
		[mm] 26	[11]	-26	
[O]	Control function	Closed via spring force, NC			
		Double-acting	[13]	-D	
		Opened via spring force, NO		-S	
		Closed via reduced spring force, NC	[12]	-PR	
	Position sensing	Via mechanical indicator			
[M]	Actuator housing material	Stainless steel 1.4408		-V4	-V4
[O]	EU certification	None			
		II 2GD		-EX4	

- [5] 4...6.2, 7.5, 8.3, 9.3, 11.5...14.5, 23...30 Not in conjunction with flow direction A
- [6] 6.8, 8, 15.5 Not in conjunction with flow direction B
- [7] 18, 20, 23, 25 Not with connection size DN50, 2", DN40, 1 1/2" or flow direction A
- [8] 30 Not with connection size DN50, 2", DN40, 1 1/2", DN32, 1 1/4" or flow direction A
- [9] Stroke 17 Only with drive K and size 46
- [10] Stroke 20 Only with drive K and size 75
- [11] Stroke 26 Only with drive M
- [12] Control function PR Must be in combination with flow direction A
- [13] Control function D, S Must be in combination with flow direction B
- [14] Size: 90 Not with drive K

[M] Mandatory data
[O] Options

Transfer order code

- [] - [] - [] - [] - [] - V4 - []

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