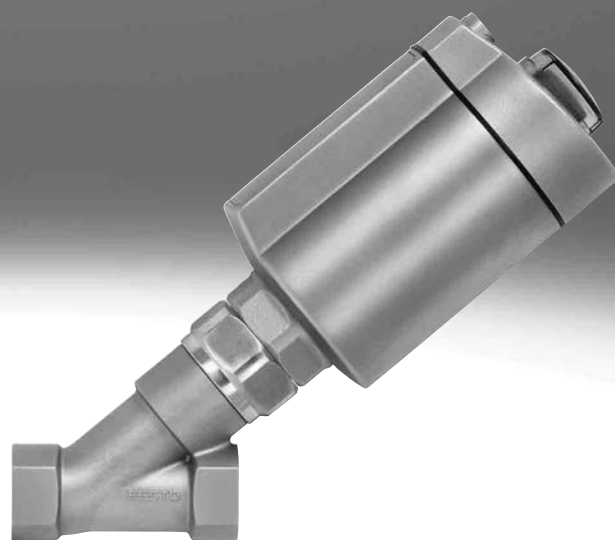


Angle seat valves VZXA

FESTO

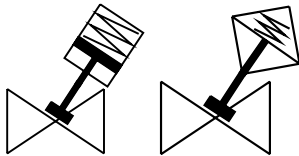


Key features

Function

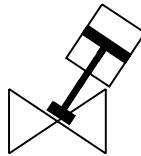
The angle seat valves VZXA are externally actuated valves which are controlled by a direct supply of compressed air and are used to shut off gaseous or liquid media in pipe systems. In the process, a spindle with a soft-sealing valve disc is raised and lowered using a pneumatic actuator. In all the versions mentioned below, the valve seat is slanted at an angle of approx. 40° in relation to the medium flow. The flow direction is determined by the design of the valve (angle seat fitting and actuator).

NC version (normally closed)



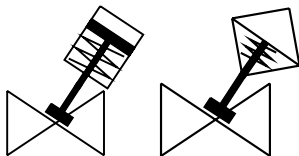
In the normal position, the valve is closed by springs. When the actuator is supplied with operating pressure, it raises the control piston and, at the same time, the valve disc too – this opens the valve.

DA version (double-acting)



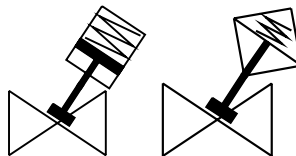
The control function is performed by alternate pneumatic actuation of the actuator chambers. Only available for the piston actuator.

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
- Also suitable for vacuum applications
- Temperature of medium –30 ... +200°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

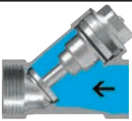
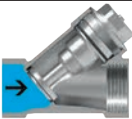
- Connection sizes DN13 ... DN65 and 1/2" ... 2 1/2"
- Pressure of medium 0 ... 30 bar
- Operating pressure 0.5 ... 1 MPa, 72.5 ... 145 psi, 5 ... 10 bar
- Threaded collar connection
- ATEX



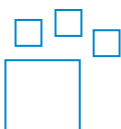
- Piston actuator with low space requirement, can close against pressures up to 1 MPa/145 psi/10 bar, in actuator sizes 46 mm and 75 mm
- Diaphragm actuator without stick-slip effect, ideal for high force requirements and control applications, in actuator size 90 mm
- The interface screws between the valve body and the piston and diaphragm actuators are identical to spanner size 46



Product range overview

Product range overview			
	Type	Control function	Flow direction
	VZXA-A-...	Closed via reduced spring force, NC	- Over the valve seat - For gaseous media, "closing in the direction of medium flow" is used
	VZXA-B-...	- Closed via spring force, NC - Opened via spring force, NO - Double-acting, DA	- Under the valve seat - For gaseous and liquid media, "closing against the direction of medium flow" is used in order to prevent or reduce water hammer

Ordering data – Product options

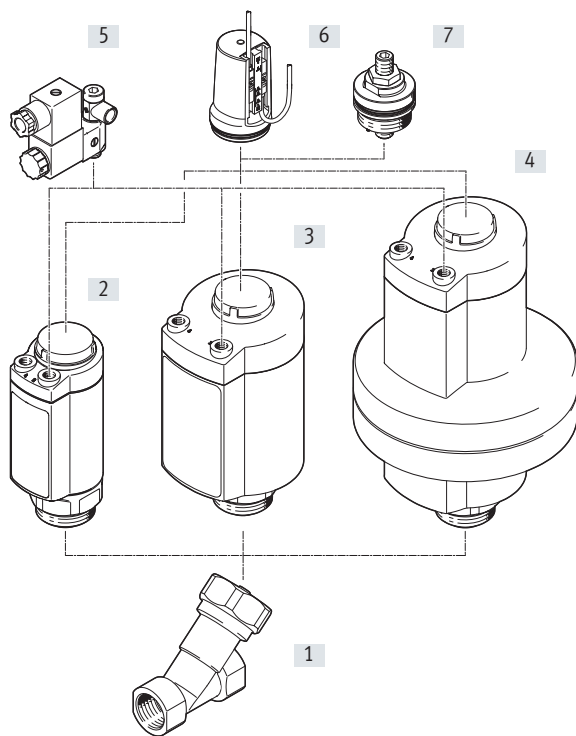


Configurable product
This product and all its product options can be ordered using the configurator.

The configurator can be found under
Products on the DVD or at
→ www.festo.com/catalogue/...

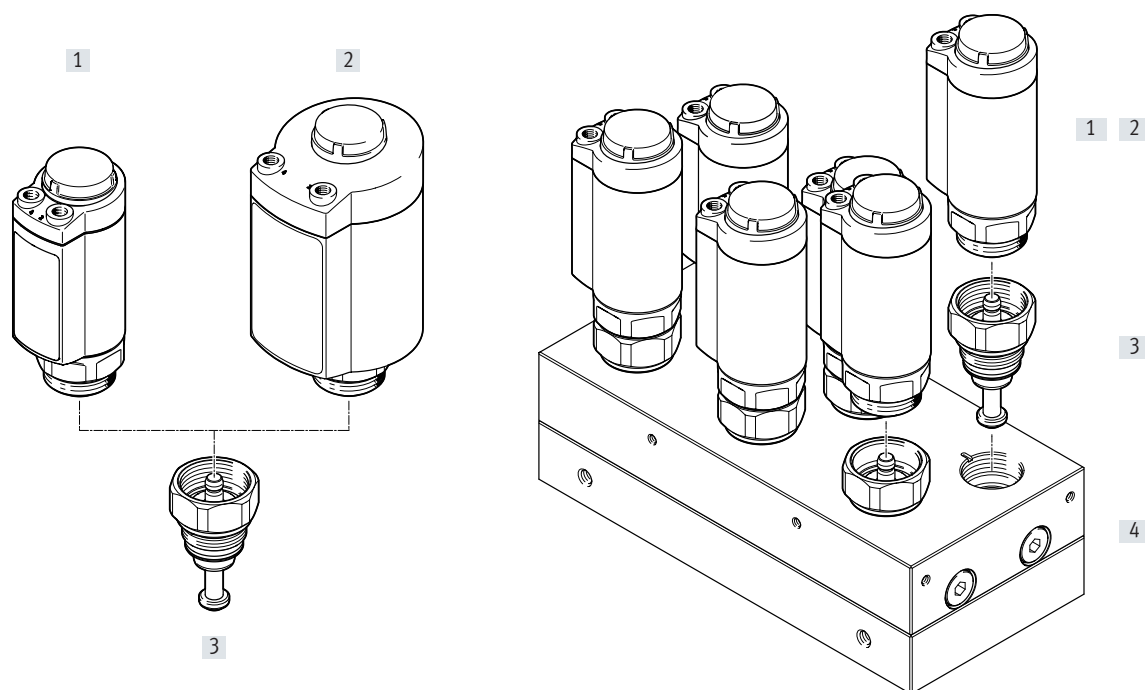
Part no. Type
3539410 VZXA

Peripherals overview



Designation	Description	→ Page
Angle seat valve VZXA		
[1] Valve body VZZA	- G thread to DIN ISO 228-1 - NPT thread to ANSI/ASME B 1.20.1 - Rc thread to DIN 10226-2	–
[2] Piston actuator DFPK	- Actuator size 46 mm - Small footprint	7
[3] Piston actuator DFPK	- Actuator size 75 mm - Small footprint	7
[4] Diaphragm actuator DFPM	- Actuator size 90 mm - Without stick-slip effect, ideal for high force requirements and control applications	13
[5] Pilot valve VOFX	- Mounted directly on the actuator - Can be ordered separately as an accessory	24
[6] Position indicator SAMH	- Position indicator with two standard T-slots for mounting position sensors - Version with or without sensors - Can be ordered separately as an accessory	27
[7] Stroke reducing kit VAVA	- Piston rod stroke is reduced using a threaded pin or shock absorber - For angle seat valves VZXA with piston and diaphragm actuator - For piston actuators DFPK - Can be ordered separately as an accessory	26

Peripherals overview



Designation	Description	→ Page
Parts available to purchase separately for customised valve block solutions		
[1] Piston actuator DFPK	• Actuator size 46 mm • Can be ordered separately as an accessory	20
[2] Piston actuator DFPK	• Actuator size 75 mm • Can be ordered separately as an accessory	20
[3] Cover kit VAVC	• Includes spindles and sealing components • Can be ordered separately as an accessory	22
[4] Manifold block	Requirements and dimensions for manufacturing → www.festo.com/catalogue/... → Support/Downloads	–

**Note**

Possible combinations and characteristic values of the medium or operating pressures, see page → 9

Type codes

001	Series	
VZXA	Process valve	

002	Flow direction	
A	Above valve seat, for gaseous media	
B	Below valve seat, for gaseous and liquid media	

003	Line connection	
T	Threaded collar	

004	Connection standard	
S6	G thread to DIN ISO 228	
S7	NPT thread to ANSI/A SME B 1.20.1	
S13	Rc thread to DIN 10226	

005	Connection size	
1/2"	1/2"	
3/4"	3/4"	
1"	1"	
1 1/4"	1 1/4"	
1 1/2"	1 1/2"	
2"	2"	
2 1/2"	2 1/2"	
13	DN13	
20	DN20	
25	DN25	
32	DN32	
40	DN40	
50	DN50	
65	DN65	

006	Temperature of medium	
M2	-10 ... +180°C	
M3	-10 ... +200°C	
M6	-10 ... +60°C	

007	Valve housing material	
V13	Stainless steel 1.4409	
V14	Stainless steel ASTM A351-CF3M	
B1	Brass	

008	Seat seal material	
T	PTFE	
TP	PTFE modified	

009	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	

010	Drive	
K	Piston drive	
M	Diaphragm actuator	

011	Drive size	
46	46 mm	
75	75 mm	
90	90 mm	

012	Stroke	
17	17	
20	20	
26	26	

013	Control function	
	Closed via spring force, N/C	
D	Double-acting	
S	Opened via spring force, N/O	
PR	Closed via reduced spring force, N/C	

014	Drive housing material	
V4	Stainless steel 1.4408	
PM	Polymer	

015	EU certification	
	None	
EX4	II 2GD	

Data sheet



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



General technical data

Line connection			DN13, 1/2"	DN20, 3/4"		DN25, 1"		DN32, 1 1/4"		DN40, 1 1/2"	DN50, 2"
Actuator			D46	D46	D75	D46	D75	D46	D75	D75	D75
Flow rate Kv	VZXA-A-...	[m ₃ /h]	6.6	–	14.5	–	21.5	–	–	–	–
	VZXA-B-...	[m ₃ /h]	6	13.3	13.5	20.3	22.6	27.9	30.3	41.4	50.1
Design			Poppet valve with piston actuator								
Actuation type			Pneumatic								
Type of mounting			In-line installation								
Mounting position			Any								
Valve function			2/2								
Pneumatic connection			Female thread G1/8								
Direction of flow			Not reversible								
Reset method			Mechanical spring								
Type of control			Externally piloted								
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								

Data sheet

Operating and environmental conditions		
Operating pressure ¹⁾	[MPa]	0.5 ... 1
	[psi]	72.5 ... 145
	[bar]	5 ... 10
Ambient temperature	[°C]	0 ... +60
Temperature of medium ²⁾	[°C]	-10 ... +180
Storage temperature	[°C]	-10 ... +60
CE marking (see declaration of conformity) ³⁾	To EU Machinery Directive	
Certification	CRN	
Certificate issuing authority	CRNOC20829.5C	
Degree of protection	IP65	
	IP67	
Max. viscosity	[mm ² /s]	600
Medium VZXA-B-... additionally	Vapour	
	Inert gases	
	Filtered compressed air, grade of filtration 200 µm	
	Mineral oil-based hydraulic fluid	
	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	German Technical Control Board (TÜV) 968/V 1039.0 0/18	

1) See "Pressure of medium and operating pressure" table with corresponding control function

2) Temperature of medium -30 ... +200°C only in conjunction with modified PTFE seat seal (see modular product system)

3) 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-proof ambient temperature	0 °C ≤ Ta ≤ +60°C

1) Selected types → www.festo.com

Materials	Material number	
Piston rod	High-alloy stainless steel	
Cover	Stainless steel casting	
Seals	FPM	
Spindle seal	PTFE	
Seat seal	PTFE	
Drive 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	

Data sheet

Pressure of medium and operating pressure for control function NC, VZXA-B (flow direction under the valve seat)

Actuator size	Min. pressure of medium [bar]		Max. pressure of medium [bar]		Min. operating pressure [bar]	
	46 mm	75 mm	46 mm	75 mm	46 mm	75 mm
DN13, 1/2"	-0.9 ¹⁾	–	30 ¹⁾	–	4.8	–
DN20, 3/4"	-0.9 ¹⁾	-0.9 ¹⁾	12.8 ¹⁾	30 ¹⁾	4.8	4.6
DN25, 1"	-0.9 ¹⁾	-0.9 ¹⁾	8.3 ¹⁾	23 ¹⁾	4.8	4.6
DN32, 1 1/4"	-0.9 ¹⁾	-0.9 ¹⁾	4.4 ¹⁾	13.5 ¹⁾	4.8	4.6
DN40, 1 1/2"	–	-0.9 ¹⁾	–	9.3 ¹⁾	–	4.6
DN50, 2"	–	-0.9 ¹⁾	–	5.6 ¹⁾	–	4.6

1) Also suitable for vacuum applications

Pressure of medium and operating pressure for control function NC with reduced spring force, VZXA-B-...-PR (flow direction under the valve seat)

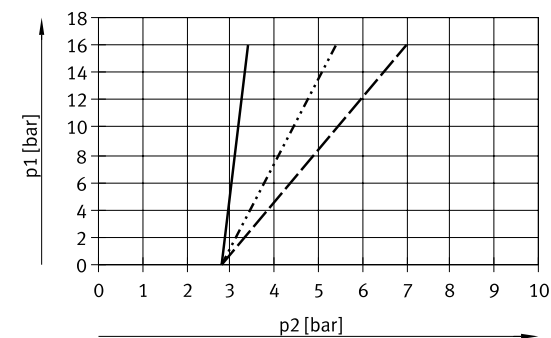
Actuator size	Max. pressure of medium [bar]		Min. operating pressure [bar]	
	46 mm	75 mm	46 mm	75 mm
DN13, 1/2"	11.5	–	2.6	–
DN20, 3/4"	6	16	2.6	2.2
DN25, 1"	–	9.3	–	2.2
DN32, 1 1/4"	–	4.8	–	2.2
DN40, 1 1/2"	–	4	–	2.2

Pressure of medium and operating pressure for control function NO opened via spring force, VZXA-B-...-S (flow direction under the valve seat)

Actuator size	Max. pressure of medium [bar]		Min. operating pressure [bar]	
	46 mm	75 mm	46 mm	75 mm
DN13, 1/2"	16	–	3.4	–
DN20, 3/4"	13.5	16	5	3.4
DN25, 1"	8.3	16	5	4
DN32, 1 1/4"	–	16	–	5
DN40, 1 1/2"	–	10	–	5
DN50, 2"	–	6.2	–	5

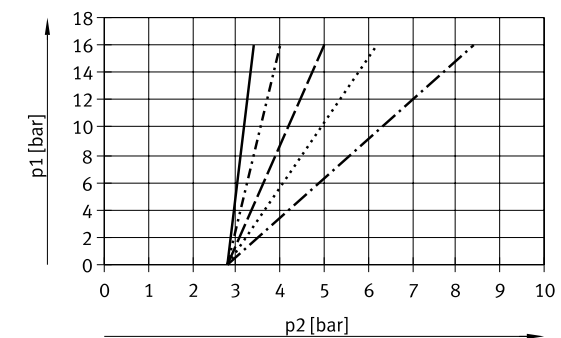
Pressure of medium p₁ and operating pressure p₂ for control function NO opened via spring force, VZXA-B-...-S (flow direction under the valve seat)

Piston actuator size 46 mm



— DN13, 1/2"
 - · - · - · DN20, 3/4"
 - - - - - DN25, 1"

Piston actuator size 75 mm



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

Data sheet

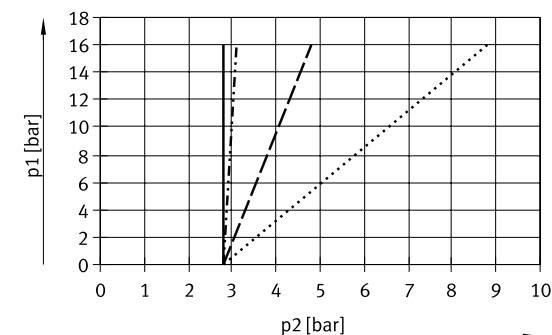
Pressure of medium and operating pressure for double-acting control function, VZXA-B-...-D (flow direction under the valve seat)

Actuator size	Max. pressure of medium [bar]		Min. operating pressure [bar]	
	46 mm	75 mm	46 mm	75 mm
DN13, 1/2"	16	–	2.8	–
DN20, 3/4"	16	16	3.1	2.8
DN25, 1"	16	16	4.8	2.8
DN32, 1 1/4"	6	16	5	2.8
DN40, 1 1/2"	–	16	–	3.8
DN50, 2"	–	10	–	5

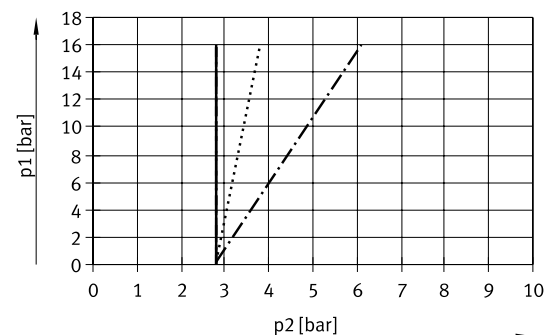
Pressure of medium p1 and operating pressure p2 for double-acting control function, VZXA-B-...-D (flow direction under the valve seat)

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" and DN25, 1" and DN32, 1 1/4"
 DN40, 1 1/2"
 - . - . DN50, 2"

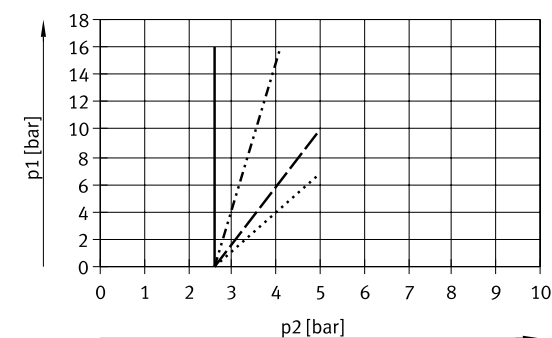
Pressure of medium and operating pressure for control function NC with reduced spring force, VZXA-A-...-PR (flow direction over the valve seat)

Actuator size	Max. pressure of medium [bar]		Min. operating pressure [bar]	
	46 mm	75 mm	46 mm	75 mm
DN13, 1/2"	16	–	2.6	–
DN20, 3/4"	16	16	4.1	2.4
DN25, 1"	10	16	5	3.1
DN32, 1 1/4"	6.8	16	5	4.2
DN40, 1 1/2"	–	15.5	–	5
DN50, 2"	–	8	–	5

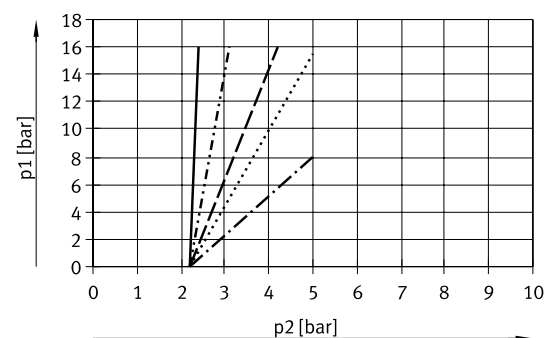
Pressure of medium p1 and operating pressure p2 for control function NC with reduced spring force, VZXA-A-...-PR (flow direction over the valve seat)

Piston actuator size 46 mm

Piston actuator size 75 mm



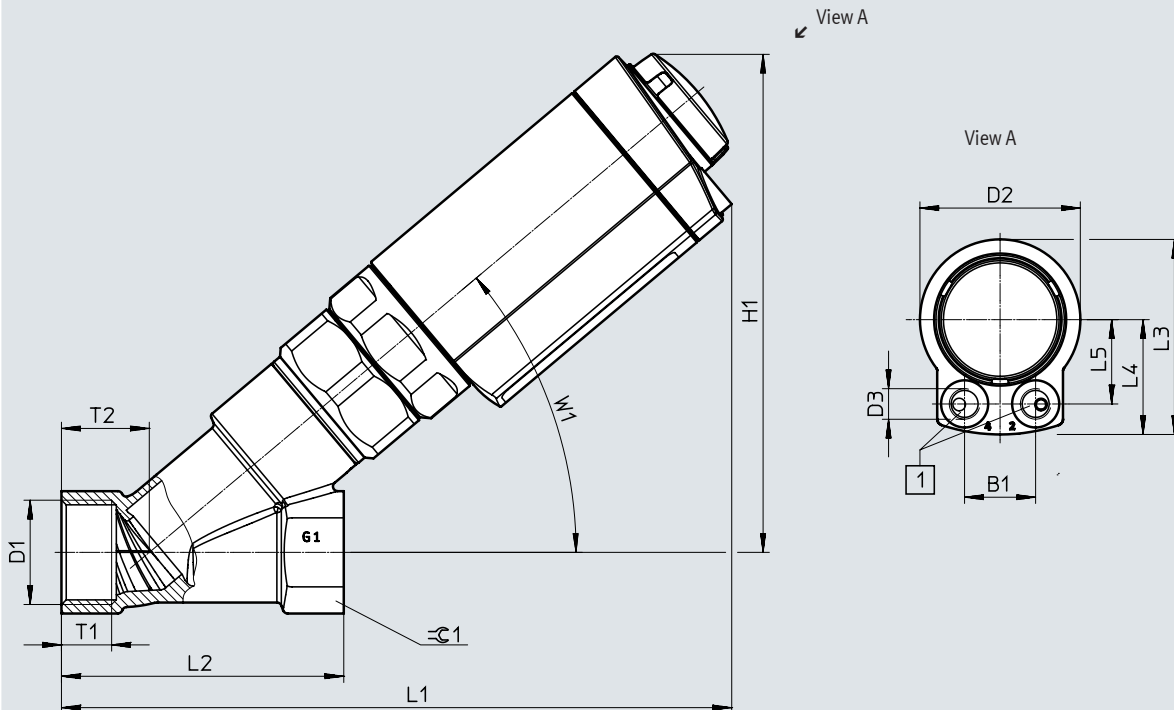
— DN13, 1/2"
 - - - DN20, 3/4"
 - - - DN25, 1"
 DN32, 1 1/4"



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

Data sheet

Dimensions

Download CAD data → www.festo.com

[1] Pneumatic connection

Type	B1	D1			D2 ø	D3	H1 max.	L1 max.	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	G1 1/4	1 1/4 NPT	Rc1 1/4	51		168	218	110
VZXA-B-...32-...13.5-...75-20-...	41	G1 1/4	1 1/4 NPT	Rc1 1/4	82.6		198	248	110
VZXA-B-...40-...9.3-...75-20-...	41	G1 1/2	1 1/2 NPT	Rc1 1/2	82.6		216	270	120
VZXA-B-...50-...5.6-...75-20-...	41	G2	2 NPT	Rc2	82.6		215	286	150

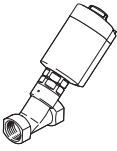
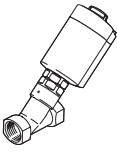
Type	L3	L4	L5	T1			T2	W1	≈G1
				S6	S7	S13			
VZXA-A-...13-...16-...46-17-...	62.1	36.5	26.8	14	13.7	13.2	21.5	40	25
VZXA-A-...20-...16-...75-20-...	94.4	53.1	41	16	14	14.5	24	40	32
VZXA-A-...25-...16-...75-20-...	94.4	53.1	41	16	16.8	16.8	28	40	41
VZXA-B-...13-...30-...46-17-...	62.1	36.5	26.8	14	13.7	13.2	21.5	40	25
VZXA-B-...20-...12.8-...46-17-...	62.1	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-...	62.1	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-...	62.1	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

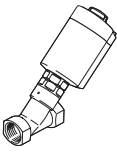
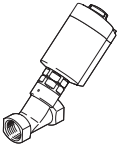
Data sheet

Ordering data

Key features:

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

VZXA-A-..., flow direction over the valve seat		Flow rate Kv [m³/h]	Pressure of medium [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 under the valve seat		Flow rate Kv [m³/h]	Pressure of medium [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

Data sheet



- Poppet valve with diaphragm actuator
- Line connection
1/2" ... 2 1/2", DN13 ... DN65
- Stroke
26 mm



General technical data							
Line connection			DN25, 1"	DN32, 1 1/4"	DN40, 1 1/2"	DN50, 2"	DN65, 2 1/2"
Actuator size		[mm]	90				
Stroke		[mm]	26				
Flow rate Kv	VZXA-A-...	[m ₃ /h]	–	35.4	47.4	68.5	77.4
	VZXA-B-...	[m ₃ /h]	23.6	33.1	49	60.4	77.9
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				
Direction of flow			Not reversible				
Reset method			Mechanical spring				
Type of control			Externally piloted				
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				

Data sheet

Operating and environmental conditions		
Operating pressure ¹⁾	[MPa]	0.5 ... 1
	[psi]	72.5 ... 145
	[bar]	5 ... 10
Ambient temperature	[°C]	0 ... +60
Temperature of medium ²⁾	[°C]	-10 ... +180
Storage temperature	[°C]	-10 ... +60
CE marking (see declaration of conformity) ³⁾	To EU Machinery Directive	
Certification	CRN	
Certificate issuing authority	CRNOC20829.5C	
Degree of protection	IP65	
	IP67	
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 fluid
		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	German Technical Control Board (TÜV) 968/V 1039.0 0/18	

1) See "Pressure of medium and operating pressure" table with corresponding control function

2) Temperature of medium -30 ... +200°C only in conjunction with modified PTFE seat seal (see modular product system)

3) 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-proof ambient temperature	0 °C ≤ Ta ≤ +60°C

1) Selected types → www.festo.com

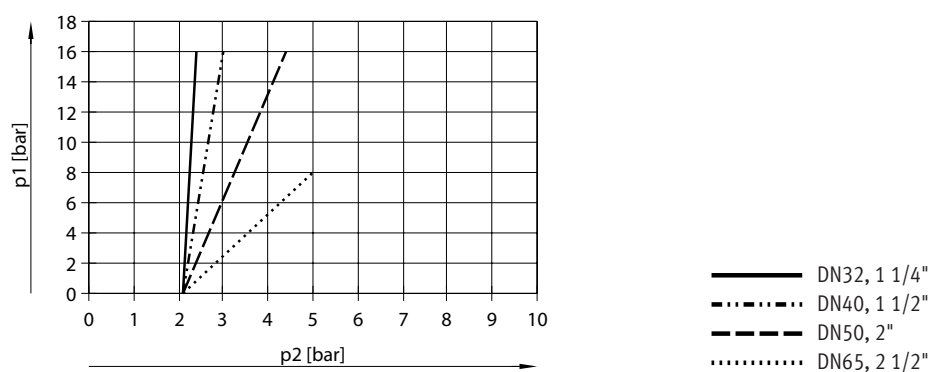
Data sheet

Materials		Material number
Piston rod	High-alloy stainless steel	
Cover	Stainless steel casting	
Seals	NBR	
Spindle seal	PTFE	
Seat seal	PTFE	
Drive 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	

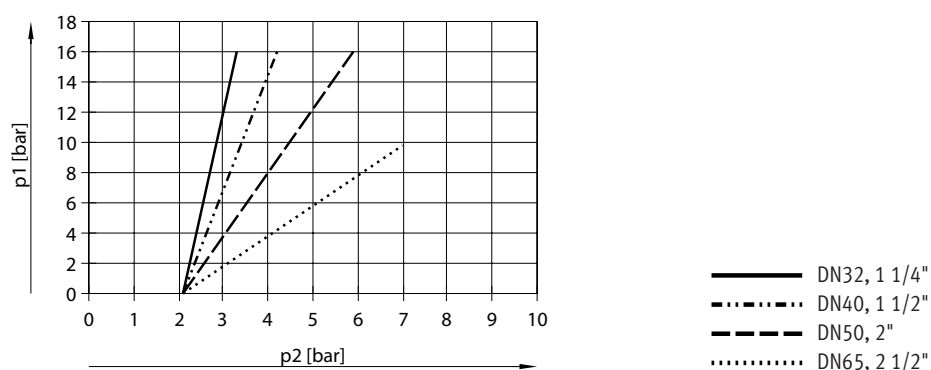
Permissible operating pressure as a function of pressure of medium for control function NC, VZXA-B-...		
	Min. operating pressure [bar]	Max. pressure of medium [bar]
Actuator size	90 mm	
DN25, 1"	5	30
DN32, 1 1/4"	5	25
DN40, 1 1/2"	5	16
DN50, 2"	5	10
DN65, 2 1/2"	5	5.6

Pressure of medium p₁ and operating pressure p₂ for control function NC with reduced spring force, VZXA-A-...-PR (flow direction over the valve seat)

Diaphragm actuator size 90 mm


Pressure of medium p₁ and operating pressure p₂ for control function NO opened via spring force, VZXA-B-...-S (flow direction under the valve seat)

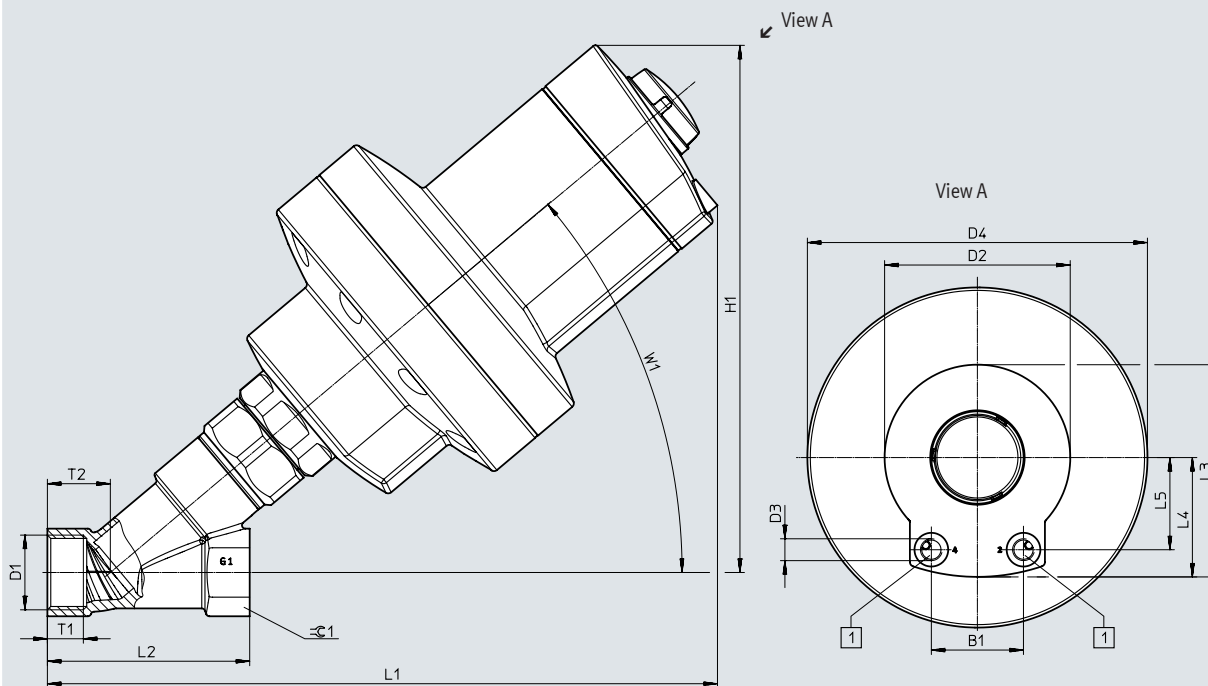
Diaphragm actuator size 90 mm



Data sheet

Dimensions

Size 90 mm

Download CAD data → www.festo.com


[1] Pneumatic connection

Type	B1	D1			D2 Ø	D3	D4 Ø	H1 max.	L1 max.	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
VZXA-B-...-65-...-5.6-...	41	G2 1/2	2 1/2 NPT	Rc2 1/2	82.6	G1/8	151.3	273	366	190

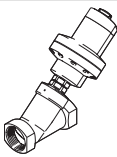
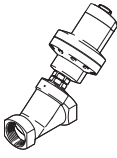
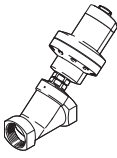
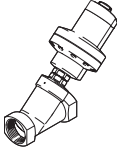
Type	L3	L4	L5	T1			T2	W1	≈G1
				S6	S7	S13			
VZXA-A-...-32-...-16-...-PR-...	94.4	53.1	41	20	17.3	19.1	36	42	50
VZXA-A-...-40-...-16-...-PR-...	94.4	53.1	41	22	17.3	19.1	38	42	55
VZXA-A-...-50-...-16-...-PR-...	94.4	53.1	41	24	17.6	23.4	43	40	65
VZXA-A-...-65-...-8-...-PR-...	94.4	53.1	41	27	24	27	53	40	85
VZXA-B-...-25-...-30-...	94.4	53.1	41	16	16.8	16.8	28	40	41
VZXA-B-...-32-...-25-...	94.4	53.1	41	20	17.3	19.1	36	42	50
VZXA-B-...-40-...-16-...	94.4	53.1	41	22	17.3	19.1	38	42	55
VZXA-B-...-50-...-10-...	94.4	53.1	41	24	17.6	23.4	43	40	65
VZXA-B-...-65-...-5.6-...	94.4	53.1	41	27	24	27	53	40	85

Data sheet

Ordering data

Key features:

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

VZXA-A-..., flow direction over the valve seat		Flow rate Kv [m ³ /h]	Pressure of medium [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
	DN65, 90 mm actuator	77.4	0 ... 8	10185	8060519	VZXA-A-TS6-65-M2-V13T-8-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-TS7-1 1/4"-M2-V14T-16-M-90-26-PR-V4
	1 1/2", 90 mm actuator	47.4	0 ... 16	7275	8060524	VZXA-A-TS7-1 1/2"-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
	2 1/2", 90 mm actuator	77.4	0 ... 8	10185	8060526	VZXA-A-TS7-2 1/2"-M2-V14T-8-M-90-26-PR-V4
VZXA-B-..., flow direction under the valve seat						
		Flow rate Kv [m ³ /h]	Pressure of medium [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
	DN65, 90 mm actuator	77.9	0 ... 5.6	10700	8060540	VZXA-B-TS6-65-M2-V13T-5.6-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-TS7-1 1/4"-M2-V14T-25-M-90-26-V4
	1 1/2", 90 mm actuator	49	0 ... 16	7790	8060551	VZXA-B-TS7-1 1/2"-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
	2 1/2", 90 mm actuator	77.9	0 ... 5.6	10700	8060554	VZXA-B-TS7-2 1/2"-M2-V14T-5.6-M-90-26-V4

Ordering data – Modular product system

Ordering table		Conditions	Code	Enter code
VZXA-...				
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	
Control of the medium	On/off operation			
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	
	DN65	[4]	-65	
	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"	
	2 1/2"	[1]	-2 1/2"	
Temperature of medium [°C]	-10 ... +180		-M2	
	-30 ... +200		-M3	
Angle seat housing material	Stainless steel 1.4409	[2]	-V13	
	Stainless steel ASTM A351-CF3M	[3]	-V14	
Seat seal material	PTFE		T	
	PTFE modified	[5]	TP	

[1] 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2"

[2] V13

[3] V14

[4] DN13, DN20, DN25, DN32, DN40, DN50, DN65

[5] TP

Not with connection standard S6, S13

Not with imperial connection size

Not with metric connection size

Not with connection standard S7

Only with temperature of medium M3

Ordering data – Modular product system

Ordering table		Conditions	Code	Enter code
VZXA-...				
Pressure of medium	[bar] 0 ... 4	[6]	-4	
	[bar] 0 ... 4.4	[6]	-4.4	
	[bar] 0 ... 4.8	[6]	-4.8	
	[bar] 0 ... 5.6	[6]	-5.6	
	[bar] 0 ... 5.8	[6]	-5.8	
	[bar] 0 ... 6	[6]	-6	
	[bar] 0 ... 6.2	[6]	-6.2	
	[bar] 0 ... 6.8	[7]	-6.8	
	[bar] 0 ... 7.5	[6]	-7.5	
	[bar] 0 ... 8	[7]	-8	
	[bar] 0 ... 8.3	[6]	-8.3	
	[bar] 0 ... 9.3	[6]	-9.3	
	[bar] 0 ... 10	[6]	-10	
	[bar] 0 ... 11.5	[6]	-11.5	
	[bar] 0 ... 12.2	[6]	-12.2	
	[bar] 0 ... 12.8	[6]	-12.8	
	[bar] 0 ... 13.5	[6]	-13.5	
	[bar] 0 ... 14.5	[6]	-14.5	
	[bar] 0 ... 15.5	[7]	-15.5	
	[bar] 0 ... 16		-16	
	[bar] 0 ... 23	[8], [6]	-23	
	[bar] 0 ... 25	[8], [6]	-25	
	[bar] 0 ... 30	[9], [6]	-30	
Actuator	Piston actuator		-K	
	Diaphragm actuator		-M	
Actuator size	[mm] 46	[14]	-46	
	[mm] 75	[14]	-75	
	[mm] 90	[15]	-90	
Stroke	[mm] 17	[10]	-17	
	[mm] 20	[11]	-20	
	[mm] 26	[12]	-26	
Control function	Closed via spring force, NC			
	Double-acting	[14]	-D	
	Opened via spring force, NO		-S	
	Closed via reduced spring force, NC	[13]	-PR	
Position sensing	Via mechanical indicator			
Actuator housing material	Stainless steel 1.4408		-V4	-V4
EU certification	None			
	II 2GD		-EX4	

[6] 4 ... 6.2, 7.5, 8.3, 9.3, 11.5 ... 14.5, 23 ... 30

[7] 6.8, 8, 15.5

[8] 18, 20, 23, 25

[9] 30

[10] Stroke 17

[11] Stroke 20

[12] Stroke 26

[13] Control function PR

[14] Control function D, S

[15] Size 90

Not in conjunction with flow direction A

Not in conjunction with flow direction B

Not with connection size DN65, 2 1/2", DN50, 2", DN40, 1 1/2" or flow direction A

Not with connection size DN65, 2 1/2", DN50, 2" DN40, 1 1/2", DN32, 1 1/4" or flow direction A

Only with actuator K and size 46

Only with actuator K and size 75

Only with actuator M

Must be in conjunction with flow direction A

Must be in conjunction with flow direction B

Not with actuator K

Accessories

Piston actuator DFPK

- Actuator sizes
46 mm with 17 mm stroke
75 mm with 20 mm stroke



General technical data		
Size of valve actuator		46
		75
Stroke [mm]		17
		20
Mounting position		Any
Position sensing		Via mechanical indicator
Control function		Closed via spring force, NC
		Closed via reduced spring force, NC
		Opened via spring force, NO
		Double-acting
Pneumatic connection		Female thread G1/8

Operating and environmental conditions		
Operating pressure	[MPa]	0.5 ... 1
	[psi]	72.5 ... 145
	[bar]	5 ... 10
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	[°C]	0 ... 60
Storage temperature	[°C]	−10 ... +60
Degree of protection		IP65
		IP67

ATEX		
ATEX category for gas		II 2G
Type of ignition protection for gas		Ex h IIC T6...T4 Gb
ATEX category for dust		II 2D
Type of ignition protection for dust		Ex h IIIC T80°C...T120°C Db
Explosion-proof ambient temperature	[°C]	0°C ≤ Ta ≤ +60°C

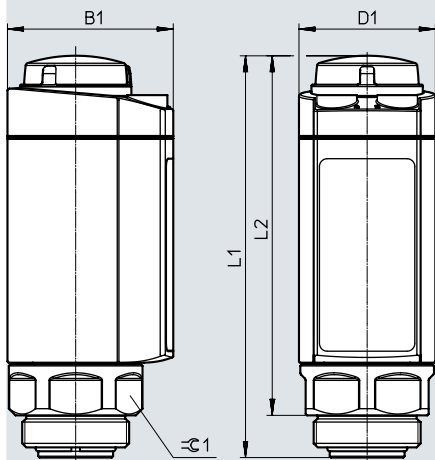
Materials		Material number
Housing	Stainless steel casting	1.4408
Piston rod	High-alloy stainless steel	
Cover	Stainless steel casting	
Seals	FPM	
Note on materials	Contains paint-wetting impairment substances	
	RoHS-compliant	

 Note

Possible combinations and characteristic values of the medium or operating pressures, see page → 9

Accessories

Dimensions

Download CAD data → www.festo.com

	B1	D1 Ø	L1	L2	1/8"
DFPK-46-17-V4	62	51	150.3	134.5	46
DFPK-46-17-PR-V4					
DFPK-46-17-S-V4					
DFPK-46-17-D-V4					
DFPK-75-20-V4	94.4	82.5	181	165.2	
DFPK-75-20-PR-V4					
DFPK-75-20-S-V4					
DFPK-75-20-D-V4					

Ordering data

	Control function	Product weight [g]	Part no.	Type
	Closed via spring force, NC	1298	8083959	DFPK-46-17-V4
	Closed via reduced spring force, NC	1243	8083960	DFPK-46-17-PR-V4
	Opened via spring force, NO	1243	8083961	DFPK-46-17-S-V4
	Double-acting	1210	8083962	DFPK-46-17-D-V4
	Closed by spring force, NC	2746	8083963	DFPK-75-20-V4
	Closed by reduced spring force, NC	2539	8083964	DFPK-75-20-PR-V4
	Opened by spring force, NO	2539	8083965	DFPK-75-20-S-V4
	Double-acting	2412	8083966	DFPK-75-20-D-V4



Note

The cover kit VAVC can be combined with the piston actuator DFPK to form a valve block solution. In this case, the cover kits are installed together with the actuators in a valve block.

The valve block acts as a valve housing and must be manufactured individually. Requirements and dimensions for manufacturing can be found at → www.festo.com/sp (Expert knowledge)

Accessories

Cover kit VAVC

- Nominal width DN 13 ... 50
- For piston actuators DFPK



General technical data	
Nominal width DN	13
	20
	25
	32
	40
	50
Mounting position	Any

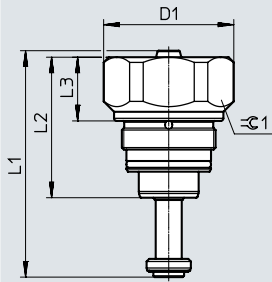
Operating and environmental conditions	
Medium	Vapour
	Mineral oil-based hydraulic fluid
	Inert gases
	Mineral oil
	Water
	Filtered compressed air, grade of filtration 200 µm
Note on the medium	Neutral fluids
Temperature of medium [°C]	Gaseous media are only permitted with inflow over the valve seat
Ambient temperature [°C]	−30 ... +200
Storage temperature [°C]	0 ... 60
	−10 ... +60

Materials	
Cover	High-alloy stainless steel
Spindle seal	PTFE
Seat seal	PTFE, modified
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

 **Note**
Possible combinations and characteristic values of the medium or operating pressures, see page → 9

Accessories

Dimensions

Download CAD data → www.festo.com

	D1 Ø	L1	L2	L3	≡C1	
VAVC-F12-SCC-13-TP	50	87	54	24.5	46	
VAVC-F12-SCC-20-TP		85.6				
VAVC-F12-SCC-25-TP		94.4		17		
VAVC-F12-SCC-32-TP		94.4				
VAVC-F12-SCC-40-TP	55	121.5	80.1	32.2		
VAVC-F12-SCC-50-TP	67.5	129.7	85.9	21.5		

Ordering data

	Nominal width DN	Product weight [g]	Part no.	Type
	13	358	8084035	VAVC-F12-SCC-13-TP
	20	363	8084036	VAVC-F12-SCC-20-TP
	25	385	8084042	VAVC-F12-SCC-25-TP
	32	424	8084034	VAVC-F12-SCC-32-TP
	40	846	8084032	VAVC-F12-SCC-40-TP
	50	1180	8084045	VAVC-F12-SCC-50-TP



Note

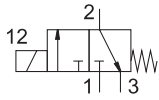
The cover kit VAVC can be combined with the piston actuator DFPK to form a valve block solution. In this case, the cover kits are installed together with the actuators in a valve block.

The valve block acts as a valve housing and must be manufactured individually. Requirements and dimensions for manufacturing can be found at

→ www.festo.com/catalogue/... → Support/Downloads

Accessories

Pilot valve VOFX



General technical data		
Width	[mm]	22
Nominal width DN	[mm]	1.3
Valve function		3/2-way, closed, single solenoid
Actuation type		Electrical
Design		Directly actuated poppet valve
Exhaust air function		Can be throttled
Reset method		Mechanical spring
Sealing principle		Soft
Mounting position		Any
Manual override		Detenting
Type of control		Direct
Pilot air supply		Internal
Direction of flow		Not reversible
Pneumatic connection 1		G1/8
Pneumatic connection 2		G1/8
Pneumatic connection 3		M5
Electrical connection		3-pin Type B Plug To EN 175301-803
Switching time off	[ms]	46
Switching time on	[ms]	31
Duty cycle	[%]	100
Characteristic coil data		24 V DC: 3.0 W
Permissible voltage fluctuations	[%]	+/- 10
Product weight	[g]	160

Operating and environmental conditions		
Operating pressure	[bar]	-0.9 ... 8
Ambient temperature	[°C]	-10 ... +50
Temperature of medium	[°C]	-10 ... +50
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Degree of protection		IP65
Standard nominal flow rate q _{nN}	[l/min]	50
Corrosion resistance class CRC ¹⁾		2

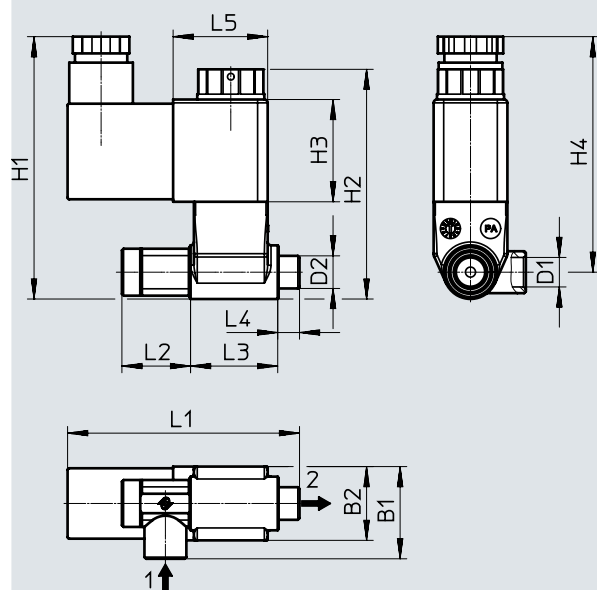
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Materials	
Seals	NBR
Housing	PA
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

Accessories

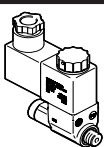
Dimensions

Download CAD data → www.festo.com

→ Flow direction

	B1	B2	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5
VOFX	27.5	22	G1/8	G1/8	~78.3	68.5	30.5	~70.3	69.2	20.5	26	6.5	28.2

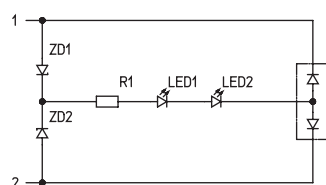
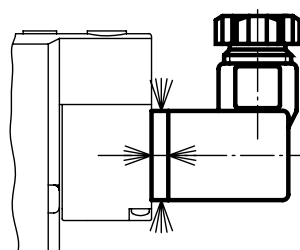
Ordering data

	Description	Part no.	Type
	Pilot valve, 3/2-way, closed, single solenoid	8119587	VOFX-LT-M32C-MY-G18-SG18-1B2

Ordering data – Illuminating seals

	Description	Product weight [g]	Max. tightening torque [Nm]	Operating voltage [V DC]	Part no.	Type
	- Illuminating seal for F solenoid coils - Degree of protection to EN 60529 IP65 (in assembled state)	1.6	0.6	12 ... 24	19143	MF-LD-12-24DC

Installation of the illuminating seal



- The existing seal must be removed before mounting the illuminating seal.
- The sealing surface of the illuminating seal must point towards the plug socket, and the sealing rim towards the solenoid coil.
- The illuminating seal is intended for one-time installation.
- Reusing illuminating seals can impair their function.

Accessories

Stroke reducing kit VAVA

- Opening stroke of the piston rod is reduced using a threaded pin or shock absorber
- For angle seat valves VZXA with piston and diaphragm actuator
- For piston actuators DFPK



General technical data		
	VAVA-F12-H-H1	VAVA-F12-H-H6
Design	Opening stroke limitation	Opening stroke limitation with cushioning
Application information	The SIL certification for the entire product is invalidated when used with angle seat valve VZXA.	
Mounting position	Any	
Product weight	253 g	249 g

Operating and environmental conditions		
	VAVA-F12-H-H1	VAVA-F12-H-H6
Ambient temperature [°C]	-50 ... +100	-10 ... +80
Storage temperature [°C]	-10 ... +60	
Degree of protection	IP6X	
Corrosion resistance class CRC ¹⁾	3	2

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

Materials	
Seals	EPDM
Nut	High-alloy stainless steel
Screws	High-alloy stainless steel
Shock absorber	High-alloy steel
Connector	High-alloy stainless steel
Note on materials	RoHS-compliant

Ordering data			
	Description	Part no.	Type
	Opening stroke limitation	• Stop with adjustable¹⁾ threaded pin • Only for flow under the seat	8089993 VAVA-F12-H-H1
		• Stop with adjustable¹⁾ shock absorber	8107369 VAVA-F12-H-H6

1) Special-purpose tool not required

Accessories

Position indicator SAMH

- Position indicator with two standard T-slots for mounting position sensors
- Version without sensors
- Version with sensors



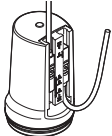
General technical data			
SAMH-F12-...	...-MK	...-MK-A1	...-MK-A2
Design	Without sensors	2 proximity switches with explosion protection	2 proximity switches with explosion protection and high level of IP protection
Mounting position	Any		
Application information	The SIL certification for the entire product is invalidated when used with angle seat valve VZXA.		
Product weight [g]	118	136	151

Operating and environmental conditions			
Ambient temperature [°C]	-20 ... 60°C	-20 ... 60°C	-20 ... 60°C
Storage temperature [°C]	-10 ... 60°C	-10 ... 60°C	-10 ... 60°C
Degree of protection	IP65		
	IP67		
Corrosion resistance class (CRC)	2		

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Materials	
Housing material	Aluminium Reinforced PA
Material: Seals	EPDM
Note on materials	RoHS-compliant Contains paint-wetting impairment substances

Ordering data				
	Description	Part no.		Type
		Part no. 574342	Part no. 574383	
		SMT-8M-A-PS-24V-E-0.3-M8D-EX2	CRSMT-8M-PS-24V-K-0.3-M8D	
Position indicator				
	• Without sensors	–	–	8092711 SAMH-F12-MK
	• With 2 sensors with explosion protection ¹⁾	■	–	8092712 SAMH-F12-MK-A1
	• With 2 sensors with explosion protection and a high level of IP protection ¹⁾	–	■	8101084 SAMH-F12-MK-A2

1) Included in the scope of delivery

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