

Angle seat valves VZXF

FESTO



Festo core product range
Covers 80% of your automation tasks

Worldwide:

Always in stock

Superb:

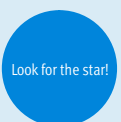
Festo quality at an attractive price

Easy:

Reduces procurement and storing complexity

★ Generally ready for shipping ex works in 24 hours
Held in stock in 13 service centres worldwide
More than 2200 product

★ Generally ready for shipping ex works in 5 days
Assembled for you in 4 service centres worldwide
Up to 6×10^{12} variants per product series



Angle seat valves VZXF

Key features

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Function



Angle seat valves are externally controlled valves. These valves are actuated by a direct supply of compressed air. In this process, the seat of the process valve is raised by a pneumatic actuator. In the normal

position, the valve is closed by a spring. When the actuator is supplied with operating pressure, it raises the control piston as well as the valve disc – the valve opens.

The valve seat is slanted at an angle of approx. 50° in relation to the media flow. The flow direction is determined by the design of the valve. Angle seat valves are used in

applications in which absolute purity of the medium cannot be ensured, in which high-viscosity media are to be controlled or in vapour applications.

Design

-  - Connecting thread
G1/2 ... G2
-  - Flow rate Kv
3.3 ... 47.5 m³/h

- Gunmetal (red brass) variant
- Stainless steel casting variant
- Stainless steel casting variant, nickel-plated actuator head

General

- Angle seat valves 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 control suitable gaseous and liquid media in rigid piping systems without the need for any pressure differential
- No differential pressure required between the input and output
- Low flow resistance
- Insensitive to vapour or slightly contaminated media
- Long service life
- Low maintenance
- The valves have a high chemical and thermal resistance thanks to their design
- The NC function ensures that the valve is closed in the event of pressure loss in the control circuit
- Different designs of angle seat valves are available depending on the pressure of the medium
- There is a choice of two versions: "closing in the direction of media flow" is used for gaseous media. "Closing against the direction of media flow" is used for liquid media

Explosion protection

- ATEX certification is used in production areas which are potentially in certain conditions. The VZXF angle seat valves are certified for use in equipment group II, equipment category 2

PWIS-free

- PWIS-free is chosen for use in production areas in which the influence of paint-wetting impairment substances must be avoided at all costs

Vacuum version

- The variant that is suitable for vacuum is used in packaging machines which need to generate a vacuum

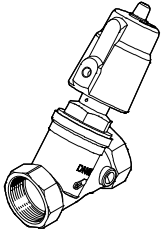
Angle seat valves VZXF

Key features

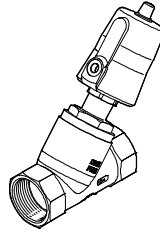
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Variants

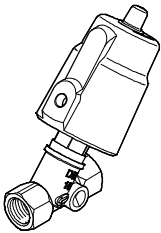
VZXF-L-...-M-A-G112-350-H3B1-50-8



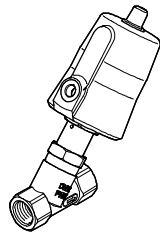
VZXF-L-...-M-A-G112-350-M1-V4V4T-50-7



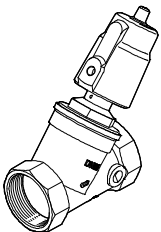
VZXF-L-...-M-A-G12-120-M1-H3B1-50-16



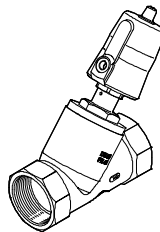
VZXF-L-...-M-B-G12-130-M1-V4V4T-50-40



VZXF-L-...-M-B-G2-430-H3B1-50-3




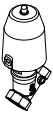
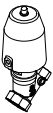

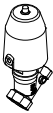
VZXF-L-...-M-B-G2-450-M1-V4V4T-50-3



Angle seat valves VZXF

Product range overview

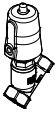
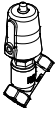
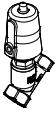

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Version	Type code	Process valve connection	Nominal width DN	Temperature of medium [°C]	Flow rate Kv [m³/h]	Process valve nominal pressure PN	→ Page/Internet	
Gunmetal (red brass)	Temperature of medium –10 ... +80°C							
		VZXF-L-...-H3B1-...	G1/2	15	–10 ... +80	3.5 ... 28	16	8
			G3/4	20				
			G1	25				
			G1 1/4	32				
			G1 1/2	40				
			G2	50				
	Temperature of medium –40 ... +200°C							
		VZXF-L-...-H3B1T-..., VZXF-L-...-H3ALT-...	G1/2	15	–40 ... +200	3.5 ... 40	16	12
			G3/4	20				
			G1	25				
			G1 1/4	32				
			G1 1/2	40				
			G2	50				
	Vacuum version							
		VZXF-L-...-H3B1V-..., VZXF-L-...-H3ALV-...	G1/2	15	–10 ... +80	3.5 ... 40	16	16
			G3/4	20				
			G1	25				
			G1 1/4	32				
			G1 1/2	40				
			G2	50				
PWIS-free								
	VZXF-L-...-H3B1V-...	G1/2	15	–10 ... +80	3.7 ... 16.5	16	18	
		G3/4	20					
		G1	25					
		G1 1/2	40					
With EX certification								
	VZXF-L-...-H3B1V-...-EX4	G1/2	15	–10 ... +80	3.5 ... 28	16	20	
		G3/4	20					
		G1	25					
		G1 1/4	32					
		G1 1/2	40					
		G2	50					

Angle seat valves VZXF

Product range overview

FESTO

Version		Type code	Process valve connection	Nominal width DN	Temperature of medium [°C]	Flow rate Kv [m³/h]	Process valve nominal pressure PN	→ Page/Internet
Stainless steel casting	Temperature of medium –40 ... +200°C							
		VZXF-L-...-V4V4T-...	G1/2	15	–40 ... +200	3.3 ... 43	40	24
			G3/4	20				
			G1	25				
			G1 1/4	32				
			G1 1/2	40				
			G2	50				
	Nickel-plated actuator head							
		VZXF-L-...-V4B2T-..., VZXF-L-...-V4ANT-...	G1/2	15	–40 ... +200	3.3 ... 43	40	27
			G3/4	20				
			G1	25				
			G1 1/4	32				
			G1 1/2	40				
			G2	50				
	Vacuum version							
		VZXF-L-...-V4B2V-..., VZXF-L-...-V4ANV-...	G1/2	15	–10 ... +80	3.8 ... 43	40	30
			G3/4	20				
			G1	25				
			G1 1/4	32				
			G1 1/2	40				
G2			50					
With EX certification								
	VZXF-L-...-V4V4T-...-EX4	G1/2	15	–40 ... +200	3.3 ... 34.5	40	32	
		G3/4	20					
		G1	25					
		G1 1/4	32					
		G1 1/2	40					
		G2	50					

Angle seat valves VZXF

Type codes

VZXF - L - M22C - M - A - G12 - 120 -

Type code

VZXF	Angle seat valve, externally controlled
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Type of directional control valve

L	In-line valve
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Valve function

M22C	2/2-way valve, normally closed
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Reset method for monostable valves

M	Mechanical spring
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Flow direction

A	Over valve seat, for gaseous media
B	Below valve seat, for gaseous and liquid media

Line connection

G12	G1/2 thread
G34	G3/4 thread
G1	G1 thread
G114	G1 1/4 thread
G112	G1 1/2 thread
G2	G2 thread

Nominal width DN

120	12 mm
130	13 mm
160	16 mm
180	18 mm
230	23 mm
240	24 mm
290	29 mm
310	31 mm
350	35 mm
430	43 mm
450	45 mm

Temperature range of medium

-	Standard, -10 ... +80 °C
M1	-40 ... +200 °C

Angle seat valves VZXF

Type code

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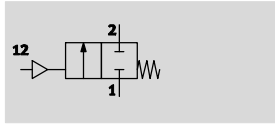
		H3	B1		-	50	-	16	-		-	EX4
Housing materials												
H3	Gunmetal (red brass)											
V4	Stainless steel											
Actuator housing material												
AL	Aluminium											
AN	Aluminium, nickel-plated											
B1	Brass											
B2	Brass, nickel-plated											
V4	Stainless steel											
Sealing material												
-	Standard, NBR											
T	PTFE											
V	FPM											
Actuator size												
50	50 mm											
80	80 mm											
Pressure of medium												
V	-0.9 ... 0 bar											
3	Max. 3 bar											
4	Max. 4 bar											
5	Max. 5 bar											
6	Max. 6 bar											
7	Max. 7 bar											
8	Max. 8 bar											
9	Max. 9 bar											
10	Max. 10 bar											
12	Max. 12 bar											
16	Max. 16 bar											
20	Max. 20 bar											
22	Max. 22 bar											
25	Max. 25 bar											
40	Max. 40 bar											
PWIS content												
-	Standard											
C	PWIS-free											
EU certification												
-	None											
EX4	II 2GD											


Angle seat valves VZXF


Gunmetal (red brass), temperature of medium -10 ... +80 °C

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Function



-  - Flow rate Kv
3.5 ... 28 m³/h

-  - Connecting thread
G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	12	16	23	29	35	43
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	VZXF-...-A-...	Over valve seat, for gaseous media				
	VZXF-...-B-...	Under valve seat, for gaseous and liquid media				

Angle seat valves VZXF

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Gunmetal (red brass), temperature of medium –10 ... +80 °C

Operating and environmental conditions							
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2	
Nominal pressure of process valve PN	16						
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Operating pressure [bar]	6 ... 10						
Medium	Vapour						
	Inert gases						
	Filtered compressed air, grade of filtration 200 µm						
	VZXF-...-B-... additionally	Mineral oil-based hydraulic fluid					
		Mineral oil					
Neutral fluids							
Water							
Max. viscosity [mm ² /s]	600						
Ambient temperature [°C]	–10 ... +60						
Temperature of medium [°C]	–10 ... +80						
CE marking (see declaration of conformity) ¹⁾	–			To EU Pressure Equipment Directive			

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

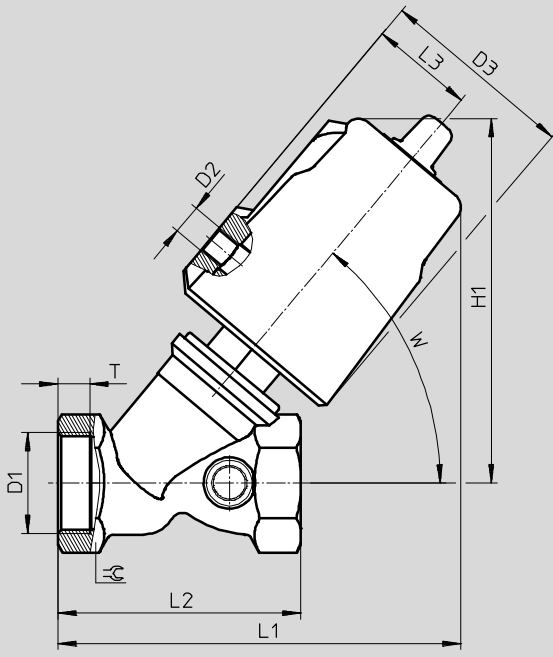
Materials	Material number
Process valve housing	Gunmetal (red brass) CC499K
Actuator housing	Brass
Spindle washer	NBR
Seat seal	PTFE
Note on materials	Contains PWIS (paint-wetting impairment substances)
	RoHS-compliant

Angle seat valves VZXF

Gunmetal (red brass), temperature of medium -10 ... +80 °C

Dimensions

Download CAD data → www.festo.com



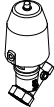
Type code	D1	D2	D3 Ø	H1	L1	L2	L3	T	W	☉
VZXF-L-...-G12-...	G1/2	G1/8	62	112	123	66	34	8	50°	27
VZXF-L-...-G34-...	G3/4			117	130	75		9		33
VZXF-L-...-G1-...	G1			121	133	80		10.5		41
VZXF-L-...-G114-...	G1 1/4			139	154	97		12.5		50
VZXF-L-...-G112-...	G1 1/2			145	161	107		14.5		56
VZXF-L-...-G2-...	G2			154	171	124		16.5		68


Angle seat valves VZXF

Gunmetal (red brass), temperature of medium -10 ... +80°C

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★ Core product range

Ordering data						
	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no. Type code
	G1/2	3.7	0 ... 16	1	1200	★ 1002501 VZXF-L-M22C-M-B-G12-120-H3B1-50-16
	G3/4	5.2	0 ... 16		1300	★ 1002503 VZXF-L-M22C-M-B-G34-160-H3B1-50-16
	G1	9.6	0 ... 10		1500	★ 1002505 VZXF-L-M22C-M-B-G1-230-H3B1-50-10

Ordering data						
	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no. Type code
	G1/2	3.5	0 ... 16	1	1200	1002500 VZXF-L-M22C-M-A-G12-120-H3B1-50-16
	G3/4	6.7	0 ... 16		1300	1002502 VZXF-L-M22C-M-A-G34-160-H3B1-50-16
	G1	10.8	0 ... 16		1500	1002504 VZXF-L-M22C-M-A-G1-230-H3B1-50-16
	G1 1/4	6	0 ... 7		1900	1002507 VZXF-L-M22C-M-B-G114-290-H3B1-50-7
		19	0 ... 10			1002506 VZXF-L-M22C-M-A-G114-290-H3B1-50-10
	G1 1/2	16.5	0 ... 6		2300	1002509 VZXF-L-M22C-M-B-G112-350-H3B1-50-6
		23				1002508 VZXF-L-M22C-M-A-G112-350-H3B1-50-8
	G2	23	0 ... 3		2800	1002511 VZXF-L-M22C-M-B-G2-430-H3B1-50-3
		28	0 ... 4			1002510 VZXF-L-M22C-M-A-G2-430-H3B1-50-4

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

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Festo core product range

★ Generally ready for shipping ex works in 24 hours

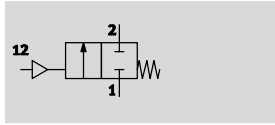
☆ Generally ready for shipping ex works in 5 days


Angle seat valves VZXF


Gunmetal (red brass), temperature of medium -40 ... +200 °C

FESTO

Function



-  - Flow rate Kv
3.5 ... 40 m³/h

-  - G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	12	16	23	29	35	43
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	VZXF-...-A-...	Over valve seat, for gaseous media				
	VZXF-...-B-...	Under valve seat, for gaseous and liquid media				

Angle seat valves VZXF

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Gunmetal (red brass), temperature of medium –40 ... +200 °C

Operating and environmental conditions							
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2	
Nominal pressure of process valve PN	16						
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Operating pressure [bar]	6 ... 10						
Medium	Vapour						
	Inert gases						
	Filtered compressed air, grade of filtration 200 µm						
	VZXF-...-B-... additionally	Mineral oil-based hydraulic fluid					
		Mineral oil					
		Neutral fluids					
Water							
Max. viscosity [mm ² /s]	600						
Ambient temperature [°C]	–10 ... +60						
Temperature of medium [°C]	–40 ... +200						
CE marking (see declaration of conformity) ¹⁾	–			To EU Pressure Equipment Directive			

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

Materials		Material number
Process valve housing	Gunmetal (red brass)	CC499K
Actuator housing	...-H3ALT-...	Aluminium
	...-H3B1T-...	Brass
Spindle washer	PTFE	
Seat seal	PTFE	
Note on materials	Contains paint-wetting impairment substances	
	RoHS-compliant	

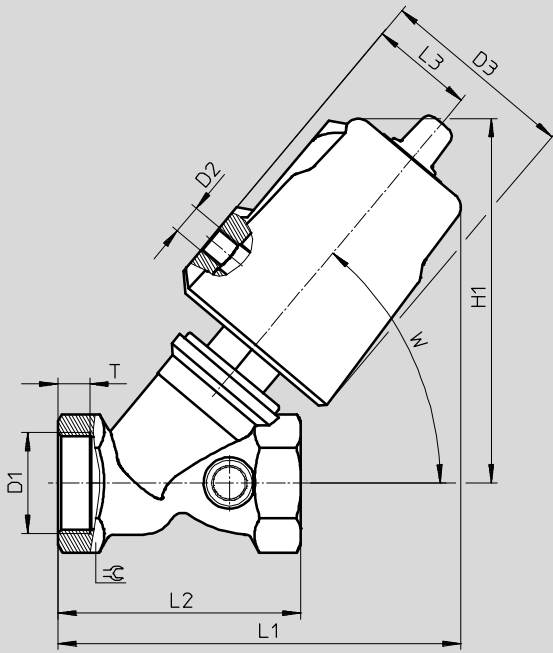
Angle seat valves VZXF

Gunmetal (red brass), temperature of medium -40 ... +200 °C

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Dimensions


Download CAD data → www.festo.com



Type code	D1	D2	D3 Ø	H1	L1	L2	L3	T	W	☉
VZXF-L-...-G12-...-H3B1T-50-...	G1/2	G1/8	62	130	135.5	66	34	13	50°	27
VZXF-L-...-G34-...-H3B1T-50-...	G3/4			130	140	75		14.5		32
VZXF-L-...-G1-...-H3B1T-50-...	G1			133	143	80		10.5		41
VZXF-L-...-G114-...-H3B1T-50-...	G1 1/4			148	160	97		12.5		50
VZXF-L-...-G114-...-H3ALT-80-...	G1 1/4		94	180	190	97	49	12.5		50
VZXF-L-...-G112-...-H3B1T-50-...	G1 1/2		62	152.5	167	107	34	14.5		55
VZXF-L-...-G112-...-H3ALT-80-...	G1 1/2		94	186	197	107	49	14.5		55
VZXF-L-...-G2-...-H3B1T-50-...	G2		62	162	178	124	34	16.5		67
VZXF-L-...-G2-...-H3ALT-80-...	G2		94	196	207.5	124	49	16.5		67

Angle seat valves VZXF

Gunmetal (red brass), temperature of medium –40 ... +200 °C

Ordering data						
	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no. Type code
	G1/2	3.5	0 ... 16	1	1200	3535619 VZXF-L-M22C-M-A-G12-120-M1-H3B1T-50-16
		3.7				3535620 VZXF-L-M22C-M-B-G12-120-M1-H3B1T-50-16
	G3/4	5.2	0 ... 16	1	1300	3535644 VZXF-L-M22C-M-B-G34-160-M1-H3B1T-50-16
		6.7				3535643 VZXF-L-M22C-M-A-G34-160-M1-H3B1T-50-16
	G1	9.6	0 ... 10	1	1500	3535665 VZXF-L-M22C-M-B-G1-230-M1-H3B1T-50-10
		10.8	0 ... 16			3535664 VZXF-L-M22C-M-A-G1-230-M1-H3B1T-50-16
		14.5	0 ... 16	0	2000	3540768 VZXF-L-M22C-M-B-G1-230-M1-H3ALT-80-16
	G1 1/4	6	0 ... 7	1	1900	3535689 VZXF-L-M22C-M-B-G114-290-M1-H3B1T-50-7
		19	0 ... 10			3535684 VZXF-L-M22C-M-A-G114-290-M1-H3B1T-50-10
		19	0 ... 12	0	2300	3535712 VZXF-L-M22C-M-B-G114-290-M1-H3ALT-80-12
		21.5	0 ... 16			3535711 VZXF-L-M22C-M-A-G114-290-M1-H3ALT-80-16
	G1 1/2	16.5	0 ... 6	1	2300	3535721 VZXF-L-M22C-M-B-G112-350-M1-H3B1T-50-6
		23	0 ... 7			3535720 VZXF-L-M22C-M-A-G112-350-M1-H3B1T-50-7
		29.5	0 ... 8	0	2600	3535825 VZXF-L-M22C-M-B-G112-350-M1-H3ALT-80-8
		30.5	0 ... 16			3535824 VZXF-L-M22C-M-A-G112-350-M1-H3ALT-80-16
	G2	23	0 ... 3	1	2800	3535838 VZXF-L-M22C-M-B-G2-430-M1-H3B1T-50-3
		28	0 ... 4			3535837 VZXF-L-M22C-M-A-G2-430-M1-H3B1T-50-4
		30	0 ... 5	0	2900	3536436 VZXF-L-M22C-M-B-G2-430-M1-H3ALT-80-5
		40	0 ... 16			3536435 VZXF-L-M22C-M-A-G2-430-M1-H3ALT-80-16

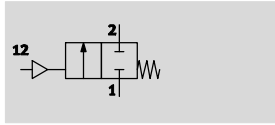
1) Corrosion resistance class CRC 0 to Festo standard FN 940070
 No corrosion stress. Applies to small, optically irrelevant standard parts such as threaded pins, circlips and clamping sleeves which are usually only available in a phosphated or burnished version (and possibly oiled) as well as to ball bearings (for components < CRC 3) and plain bearings.
 Corrosion resistance class CRC 1 to Festo standard FN 940070
 Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).


Angle seat valves VZXF


Gunmetal (red brass), vacuum version

FESTO

Function



-  - Flow rate Kv
3.5 ... 40 m³/h

-  - G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	12	16	23	29	35	43
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	Over valve seat, for gaseous media					

Operating and environmental conditions						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal pressure of process valve PN	16					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Operating pressure [bar]	6 ... 10					
Medium	Vapour					
	Inert gases					
	Filtered compressed air, grade of filtration 200 µm					
Max. viscosity [mm ² /s]	600					
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-10 ... +80					

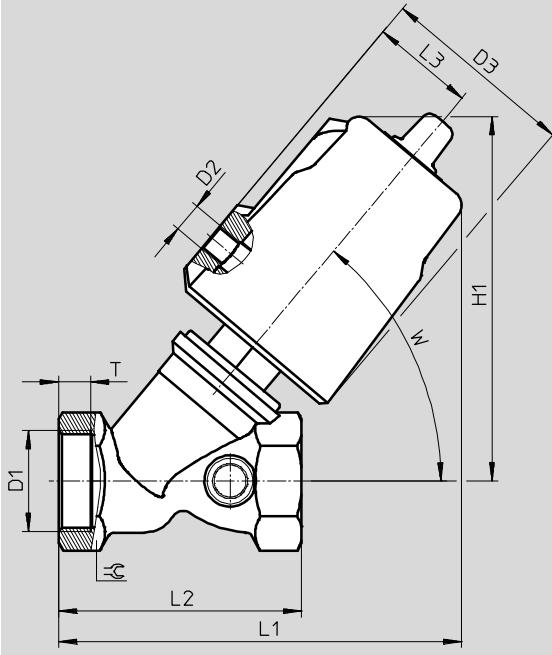
Materials		Material number
Process valve housing	Gunmetal (red brass)	CC499K
Actuator housing	...-H3ALV-...	Aluminium
	...-H3B1V-...	Brass
Spindle washer	FPM	
Seat seal	FPM	
Note on materials	Contains paint-wetting impairment substances	
	RoHS-compliant	

Angle seat valves VZXF

Gunmetal (red brass), vacuum version

Dimensions

Download CAD data → www.festo.com



Type code	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	≙
VZXF-L-...-G12-...-H3B1V-50-...	G1/2	G1/8	62	113.5	123	66	34	13	50°	27
VZXF-L-...-G34-...-H3B1V-50-...	G3/4			118	130	75	34	14.5		32
VZXF-L-...-G1-...-H3B1V-50-...	G1			121	133	80	34	10.5		41
VZXF-L-...-G1-...-H3ALV-80-...	G1		94	168	174.5	80	49	10.5		41
VZXF-L-...-G114-...-H3B1V-50-...	G1 1/4		62	138.5	153.5	97	34	12.5		50
VZXF-L-...-G114-...-H3ALV-80-...	G1 1/4		94	174.5	185	97	49	12.5		50
VZXF-L-...-G112-...-H3B1V-50-...	G1 1/2		62	146	160	107	34	14.5		55
VZXF-L-...-G112-...-H3ALV-80-...	G1 1/2		94	180.5	192	107	49	14.5		55
VZXF-L-...-G2-...-H3ALV-80-...	G2		94	190	202.5	124	49	16.5		68

Ordering data

	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no.	Type code
	G1/2	3.5	-0.9	1	1200	3538869	VZXF-L-M22C-M-A-G12-120-H3B1V-50-V
	G3/4	6.7		1	1300	3539178	VZXF-L-M22C-M-A-G34-160-H3B1V-50-V
	G1	10.8		1	1500	3539247	VZXF-L-M22C-M-A-G1-230-H3B1V-50-V
		12		0	2000	3536819	VZXF-L-M22C-M-A-G1-230-H3ALV-80-V
	G1 1/4	19		1	1900	3539352	VZXF-L-M22C-M-A-G114-290-H3B1V-50-V
		21.5		0	2300	3536830	VZXF-L-M22C-M-A-G114-290-H3ALV-80-V
	G1 1/2	23		1	2300	3539367	VZXF-L-M22C-M-A-G112-350-H3B1V-50-V
		30.5		0	2600	3536850	VZXF-L-M22C-M-A-G112-350-H3ALV-80-V
	G2	40		0	2900	3540796	VZXF-L-M22C-M-A-G2-430-H3ALV-80-V

1) Corrosion resistance class CRC 0 to Festo standard FN 940070

No corrosion stress. Applies to small, optically irrelevant standard parts such as threaded pins, circlips and clamping sleeves which are usually only available in a phosphated or burnished version (and possibly oiled) as well as to ball bearings (for components < CRC 3) and plain bearings.

Corrosion resistance class CRC 1 to Festo standard FN 940070

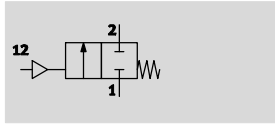
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).


Angle seat valves VZXF


Gunmetal (red brass), PWIS-free

FESTO

Function



-  - Flow rate Kv
3.7 ... 16.5 m³/h

-  - G1/2 ... G1 1/2



General technical data				
Line connection	G1/2	G3/4	G1	G1 1/2
Nominal width DN [mm]	12	16	23	35
Design	Poppet valve with piston actuator			
Type of actuation	Pneumatic			
Type of mounting	In-line installation			
Line connection	Threaded collar to DIN ISO 228-1			
Sealing principle	Soft			
Mounting position	Any			
Valve function	2/2-way, closed, monostable			
Pneumatic connection	Female thread G1/8			
Flow direction	Non-reversible			
Type of control	Externally controlled			
Reset method	Mechanical spring			
Exhaust function	Without flow control option			
Flow direction	Under valve seat, for gaseous and liquid media			

Operating and environmental conditions				
Line connection	G1/2	G3/4	G1	G1 1/2
Nominal pressure of process valve PN	16			
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]			
Operating pressure [bar]	6 ... 10			
Medium	Vapour			
	Inert gases			
	Filtered compressed air, grade of filtration 200 µm			
	Mineral oil-based hydraulic fluid			
	Mineral oil			
	Neutral fluids			
	Water			
Max. viscosity [mm ² /s]	600			
Ambient temperature [°C]	-10 ... +60			
Temperature of medium [°C]	-10 ... +80			
CE marking (see declaration of conformity) ¹⁾	-			To EU Pressure Equipment Directive

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

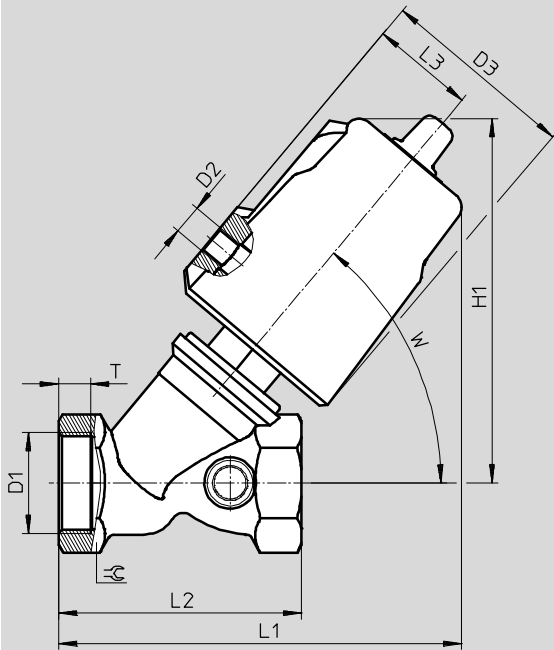
Materials	Material number	
Process valve housing	Gunmetal (red brass)	CC499K
Actuator housing	Brass	
Spindle washer	FPM	
Seat seal	FPM	
Note on materials	RoHS-compliant	

Angle seat valves VZXF

Gunmetal (red brass), PWIS-free

Dimensions

Download CAD data → www.festo.com



Type code	D1	D2	D3 Ø	H1	L1	L2	L3	T	W	☞
VZXF-L-...-G12-...	G1/2	G1/8	62	113.5	123	66	34	13	50°	27
VZXF-L-...-G34-...	G3/4			118	130	75	34	14.5		32
VZXF-L-...-G1-...	G1			121	133	80	34	10.5		41
VZXF-L-...-G112-...	G1 1/2		62	146	160	107	34	14.5		55

Ordering data

	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no.	Type code
	G1/2	3.7	0 ... 16	1	1200	3539036	VZXF-L-M22C-M-B-G12-120-H3B1V-50-16-C
	G3/4	5.2	0 ... 16		1300	3539179	VZXF-L-M22C-M-B-G34-160-H3B1V-50-16-C
	G1	9.6	0 ... 10		1500	3539248	VZXF-L-M22C-M-B-G1-230-H3B1V-50-10-C
	G1 1/2	16.5	0 ... 6		2300	3539368	VZXF-L-M22C-M-B-G112-350-H3B1V-50-6-C

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

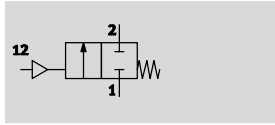
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).


Angle seat valves VZXF


Gunmetal (red brass) with EX certification

FESTO

Function



-  - Flow rate Kv
3.5 ... 28 m³/h

-  - G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	12	16	23	29	35	43
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	VZXF-...-A-...	Over valve seat, for gaseous media				
	VZXF-...-B-...	Under valve seat, for gaseous and liquid media				

Operating and environmental conditions						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal pressure of process valve PN	16					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Operating pressure [bar]	6 ... 10					
Medium	Vapour					
	Inert gases					
	Filtered compressed air, grade of filtration 200 µm					
	VZXF-...-B-... additionally	Mineral oil-based hydraulic fluid				
		Mineral oil				
	Neutral fluids					
	Water					
Max. viscosity [mm ² /s]	600					
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-10 ... +80					
CE marking (see declaration of conformity) ¹⁾	-				To EU Pressure Equipment Directive	

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

Angle seat valves VZXF

Gunmetal (red brass) with EX certification

FESTO

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	c TX X
ATEX category for dust	II 2D
Type of ignition protection for dust	c TX X
Explosion-proof ambient temperature rating [°C]	-10°C ≤ T _a ≤ +60°C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

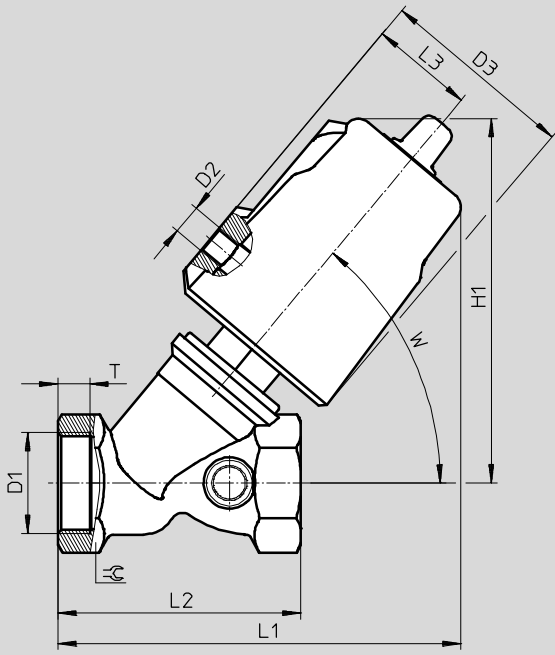
Materials		Material number
Process valve housing	Gunmetal (red brass)	CC499K
Actuator housing	Brass	
Spindle washer	NBR	
Seat seal	PTFE	
Note on materials	Contains paint-wetting impairment substances	
	RoHS-compliant	

Angle seat valves VZXF

Gunmetal (red brass) with EX certification

Dimensions

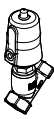
Download CAD data → www.festo.com



Type code	D1	D2	D3 Ø	H1	L1	L2	L3	T	W	EX
VZXF-L-...-G12-...	G1/2	G1/8	62	112	123	66	34	8	50°	27
VZXF-L-...-G34-...	G3/4			117	130	75	34	9		33
VZXF-L-...-G1-...	G1			121	133	80	34	10.5		41
VZXF-L-...-G114-...	G1 1/4			139	154	97	34	12.5		50
VZXF-L-...-G112-...	G1 1/2			145	161	107	34	14.5		56
VZXF-L-...-G2-...	G2			154	171	124	34	16.5		68

Angle seat valves VZXF

Gunmetal (red brass) with EX certification

Ordering data						
	Line connection	Flow rate Kv [m ³ /h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no. Type code
	G1/2	3.5	0 ... 16	1	1200	3539021 VZXF-L-M22C-M-A-G12-120-H3B1-50-16-EX4
		3.7				3539037 VZXF-L-M22C-M-B-G12-120-H3B1-50-16-EX4
	G3/4	5.2	0 ... 16		1300	3539181 VZXF-L-M22C-M-B-G34-160-H3B1-50-16-EX4
		6.7				3539180 VZXF-L-M22C-M-A-G34-160-H3B1-50-16-EX4
	G1	9.6	0 ... 10		1500	3539250 VZXF-L-M22C-M-B-G1-230-H3B1-50-10-EX4
		10.8	0 ... 16			3539249 VZXF-L-M22C-M-A-G1-230-H3B1-50-16-EX4
	G1 1/4	6	0 ... 7		1900	3539354 VZXF-L-M22C-M-B-G114-290-H3B1-50-7-EX4
		19	0 ... 10			3539353 VZXF-L-M22C-M-A-G114-290-H3B1-50-10-EX4
	G1 1/2	16.5	0 ... 6		2300	3539370 VZXF-L-M22C-M-B-G112-350-H3B1-50-6-EX4
		23	0 ... 7			3539369 VZXF-L-M22C-M-A-G112-350-H3B1-50-7-EX4
	G2	23	0 ... 3		2800	3540293 VZXF-L-M22C-M-B-G2-430-H3B1-50-3-EX4
		28	0 ... 4			3540292 VZXF-L-M22C-M-A-G2-430-H3B1-50-4-EX4

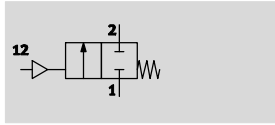
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
 Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Angle seat valves VZXF

Stainless steel casting, temperature of medium -40 ... +200°C

FESTO

Function



Flow rate Kv
3.3 ... 43 m³/h

Connecting thread
G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	13	18	24	31	35	45
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	VZXF-...-A-...	Over valve seat, for gaseous media				
	VZXF-...-B-...	Under valve seat, for gaseous and liquid media				

Operating and environmental conditions						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal pressure of process valve PN	40					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Operating pressure [bar]	6 ... 10					
Medium	Vapour					
	Inert gases					
	Filtered compressed air, grade of filtration 200 µm					
	VZXF-...-B-... additionally	Mineral oil-based hydraulic fluid				
		Mineral oil				
		Neutral fluids				
		Water				
Max. viscosity [mm ² /s]	600					
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-40 ... +200					
CE marking (see declaration of conformity) ¹⁾	-				To EU Pressure Equipment Directive	

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

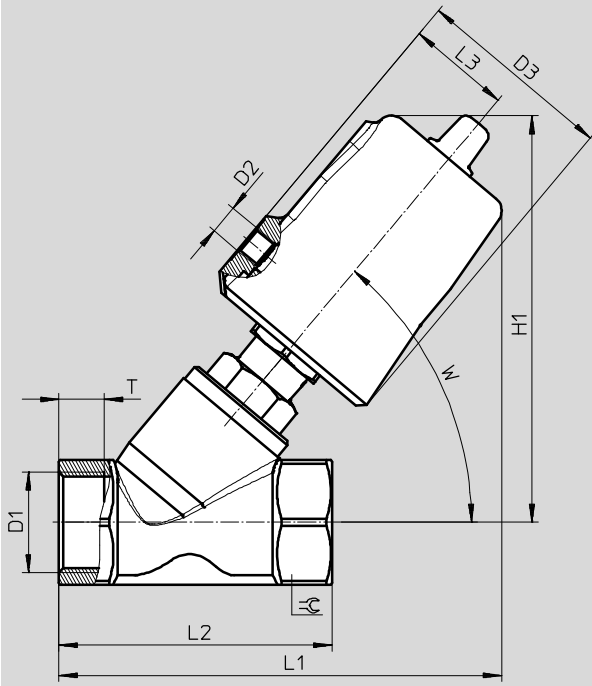
Materials	Material number
Process valve housing	Stainless steel casting 1.4408
Actuator housing	High-alloy stainless steel
Spindle washer	PTFE
Seat seal	PTFE
Note on materials	Contains PWIS (paint-wetting impairment substances) RoHS-compliant

Angle seat valves VZXF

Stainless steel casting, temperature of medium -40 ... +200°C

Dimensions

Download CAD data → www.festo.com




	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	⊕
VZXF-L-...-G12-...-V4V4T-50-...	G1/2	G1/8	62	129	135	65	34	12	50°	27
VZXF-L-...-G34-...-V4V4T-50-...	G3/4		62	130	138	75	34	13		32
VZXF-L-...-G1-...-V4V4T-50-...	G1		62	135	146	90	34	15		42
VZXF-L-...-G1-...-V4V4T-80-...	G1		94	177	184		48			
VZXF-L-...-G114-...-V4V4T-50-...	G1 1/4		62	151	155	110	34	17		50
VZXF-L-...-G114-...-V4V4T-80-...	G1 1/2		94	183	194		48			
VZXF-L-...-G112-...-V4V4T-50-...	G1 1/2		62	155	174	120	34	19		55
VZXF-L-...-G112-...-V4V4T-80-...	G1 1/2		94	187	202		48			
VZXF-L-...-G2-...-V4V4T-50-...	G2		62	167	193	150	34	21		70
VZXF-L-...-G2-...-V4V4T-80-...	G2		94	199	222		48			


Angle seat valves VZXF

FESTO

Stainless steel casting, temperature of medium -40 ... +200°C

★ Core product range

Ordering data							
	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no.	Type code
	G1/2	3.3	0 ... 40	3	1300	★ 1002513	VZXF-L-M22C-M-B-G12-130-M1-V4V4T-50-40
	G3/4	6.5	0 ... 20		1400	★ 1002515	VZXF-L-M22C-M-B-G34-180-M1-V4V4T-50-20
	G1	11	0 ... 10		1600	★ 1002517	VZXF-L-M22C-M-B-G1-240-M1-V4V4T-50-10

Ordering data							
	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no.	Type code
	G1/2	3.8	0 ... 16	3	1300	1002512	VZXF-L-M22C-M-A-G12-130-M1-V4V4T-50-16
	G3/4	7.5	0 ... 16		1400	1002514	VZXF-L-M22C-M-A-G34-180-M1-V4V4T-50-16
	G1	12	0 ... 16		1600	1002516	VZXF-L-M22C-M-A-G1-240-M1-V4V4T-50-16
			0 ... 22		3600	1002526	VZXF-L-M22C-M-B-G1-240-M1-V4V4T-80-22
			0 ... 16			1002525	VZXF-L-M22C-M-A-G1-240-M1-V4V4T-80-16
	G1 1/4	10.7	0 ... 7		2200	1002519	VZXF-L-M22C-M-B-G114-310-M1-V4V4T-50-7
			0 ... 10		3800	1002528	VZXF-L-M22C-M-B-G114-310-M1-V4V4T-80-10
			0 ... 9		2200	1002518	VZXF-L-M22C-M-A-G114-310-M1-V4V4T-50-9
			0 ... 16		3800	1002527	VZXF-L-M22C-M-A-G114-310-M1-V4V4T-80-16
	G1 1/2	17.5	0 ... 6		2500	1002521	VZXF-L-M22C-M-B-G112-350-M1-V4V4T-50-6
			0 ... 7			1002520	VZXF-L-M22C-M-A-G112-350-M1-V4V4T-50-7
			0 ... 8		4300	1002530	VZXF-L-M22C-M-B-G112-350-M1-V4V4T-80-8
			0 ... 16			1002529	VZXF-L-M22C-M-A-G112-350-M1-V4V4T-80-16
			G2		19.5	0 ... 3	3500
	0 ... 4					1002522	VZXF-L-M22C-M-A-G2-450-M1-V4V4T-50-4
	0 ... 5	5400				1002532	VZXF-L-M22C-M-B-G2-450-M1-V4V4T-80-5
	0 ... 12					1002531	VZXF-L-M22C-M-A-G2-450-M1-V4V4T-80-12

1) 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 requirements for the surface and which are in direct contact with a normal industrial environment.

Festo core product range

★ Generally ready for shipping ex works in 24 hours

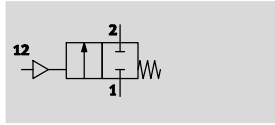
☆ Generally ready for shipping ex works in 5 days

Angle seat valves VZXF

Stainless steel casting, nickel-plated actuator head

FESTO

Function



- - Flow rate Kv
3.3 ... 43 m³/h

- - G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	13	18	24	31	35	45
Design	Poppet valve with actuator actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	VZXF-...-A-...	Over valve seat, for gaseous media				
	VZXF-...-B-...	Under valve seat, for gaseous and liquid media				

Operating and environmental conditions						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal pressure of process valve PN	40					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Operating pressure [bar]	6 ... 10					
Medium	Vapour					
	Inert gases					
	Filtered compressed air, grade of filtration 200 µm					
	VZXF-...-B-... additionally	Mineral oil-based hydraulic fluid				
		Mineral oil				
		Neutral fluids				
		Water				
Max. viscosity [mm ² /s]	600					
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-40 ... +200					
CE marking (see declaration of conformity) ¹⁾	-			To EU Pressure Equipment Directive		

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

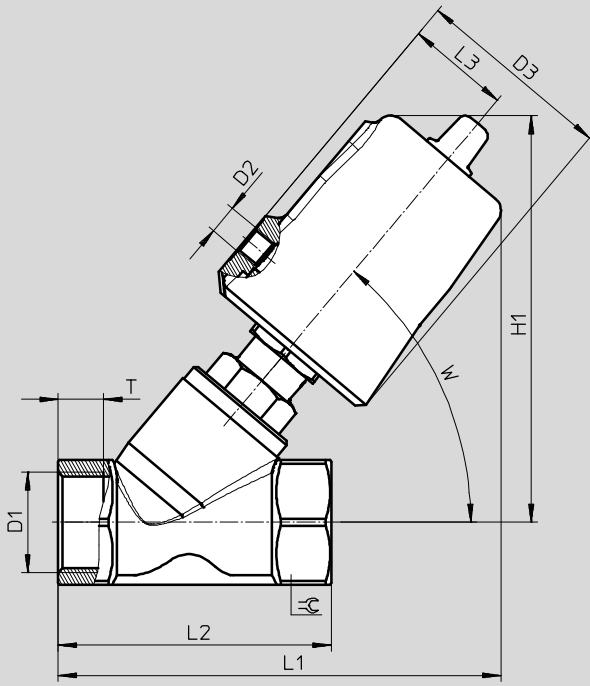
Materials	Material number
Process valve housing	Stainless steel casting 1.4408
Actuator housing	...-V4ANT- ... Aluminium, nickel-plated ...-V4B2T- ... Brass, nickel-plated
Spindle washer	PTFE
Seat seal	PTFE
Note on materials	Contains paint-wetting impairment substances RoHS-compliant

Angle seat valves VZXF

Stainless steel casting, nickel-plated actuator head

Dimensions

Download CAD data → www.festo.com

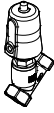


Type code	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	∠
VZXF-L-...-G12-...-V4B2T-50-...	G1/2	G1/8	62	128	133	65	34	12	50°	27
VZXF-L-...-G34-...-V4B2T-50-...	G3/4		62	128	136.5	75		13		32
VZXF-L-...-G1-...-V4B2T-50-...	G1		62	133	145	90		15		41
VZXF-L-...-G1-...-V4ANT-80-...			94	176.5	183	90	49	15		41
VZXF-L-...-G114-...-V4B2T-50-...	G1 1/4		62	150	163.5	110	34	17		50
VZXF-L-...-G114-...-V4ANT-80-...			94	183	193	110		17		50
VZXF-L-...-G112-...-V4B2T-50-...	G1 1/2		62	153	172	120		19		55
VZXF-L-...-G112-...-V4ANT-80-...			94	187	202	120		19		55
VZXF-L-...-G2-...-V4B2T-50-...	G2		62	167	193	150		21		70
VZXF-L-...-G2-...-V4ANT-80-...			94	199	221.5	150		49		21

Angle seat valves VZXF

Stainless steel casting, nickel-plated actuator head

FESTO

Ordering data						
	Line connection	Flow rate Kv [m ³ /h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no. Type code
	G1/2	3.3	0 ... 40	2	1300	3539720 VZXF-L-M22C-M-B-G12-130-M1-V4B2T-50-40
	G3/4	6.5	0 ... 20	2	1400	3538842 VZXF-L-M22C-M-B-G34-180-M1-V4B2T-50-20
		7.5	0 ... 16			3539745 VZXF-L-M22C-M-A-G34-180-M1-V4B2T-50-16
	G1	11	0 ... 10	2	1600	3539783 VZXF-L-M22C-M-B-G1-240-M1-V4B2T-50-10
		12	0 ... 16	2	1600	3539782 VZXF-L-M22C-M-A-G1-240-M1-V4B2T-50-16
		12	0 ... 22	1	3600	3540198 VZXF-L-M22C-M-B-G1-240-M1-V4ANT-80-22
	G1 1/4	10.7	0 ... 7	2	2200	3539816 VZXF-L-M22C-M-B-G114-310-M1-V4B2T-50-7
		17.5	0 ... 10	1	3800	3540818 VZXF-L-M22C-M-B-G114-310-M1-V4ANT-80-10
		18.5	0 ... 9	2	2200	3539815 VZXF-L-M22C-M-A-G114-310-M1-V4B2T-50-9
		19	0 ... 16	1	3800	3540817 VZXF-L-M22C-M-A-G114-310-M1-V4ANT-80-16
	G1 1/2	17.5	0 ... 6	2	2500	3539927 VZXF-L-M22C-M-B-G112-350-M1-V4B2T-50-6
		25	0 ... 7	2	2500	3539926 VZXF-L-M22C-M-A-G112-350-M1-V4B2T-50-7
		28	0 ... 8	1	4300	3540250 VZXF-L-M22C-M-B-G112-350-M1-V4ANT-80-8
		29	0 ... 16	1	4300	3540248 VZXF-L-M22C-M-A-G112-350-M1-V4ANT-80-16
	G2	19.5	0 ... 3	2	3500	3540146 VZXF-L-M22C-M-B-G2-450-M1-V4B2T-50-3
		34.5	0 ... 4	2	3500	3540145 VZXF-L-M22C-M-A-G2-450-M1-V4B2T-50-4
		39	0 ... 5	1	5400	3540277 VZXF-L-M22C-M-B-G2-450-M1-V4ANT-80-5
		43	0 ... 12	1	5400	3540276 VZXF-L-M22C-M-A-G2-450-M1-V4ANT-80-12

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

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Corrosion resistance class CRC 2 to Festo standard FN 940070

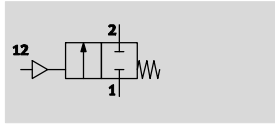
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Angle seat valves VZXF

Stainless steel casting, vacuum version

FESTO

Function



Flow rate Kv
3.8 ... 43 m³/h

G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	13	18	24	31	35	45
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	Over valve seat, for gaseous media					

Operating and environmental conditions						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal pressure of process valve PN	40					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Operating pressure [bar]	6 ... 10					
Medium	Vapour					
	Inert gases					
	Filtered compressed air, grade of filtration 200 µm					
Max. viscosity [mm ² /s]	600					
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-10 ... +80					

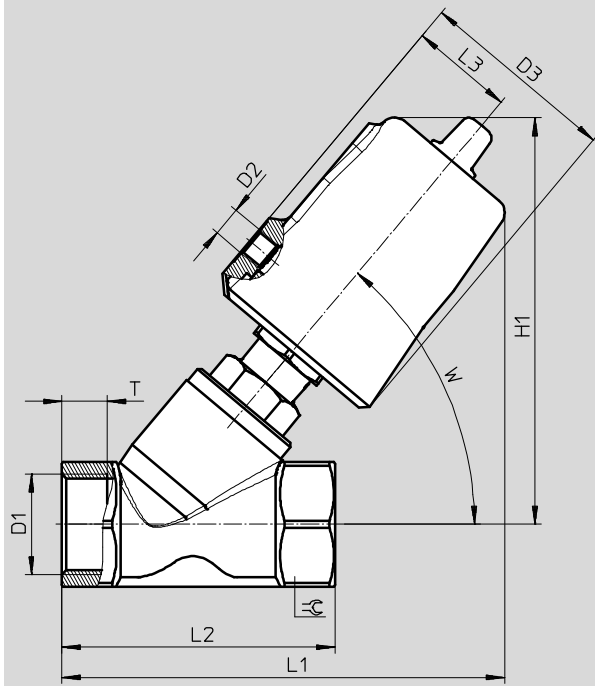
Materials		Material number
Process valve housing	Stainless steel casting	1.4408
Actuator housing	...-V4ANV-...	Aluminium, nickel-plated
	...-V4B2V-...	Brass, nickel-plated
Spindle washer	FPM	
Seat seal	FPM	
Note on materials	Contains paint-wetting impairment substances	
	RoHS-compliant	

Angle seat valves VZXF

Stainless steel casting, vacuum version

Dimensions

Download CAD data → www.festo.com



Type code	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	⌀
VZXF-L-...-G12-...-V4B2V-50-...	G1/2	G1/8	62	112	119	65	34	12	50°	27
VZXF-L-...-G34-...-V4B2V-50-...	G3/4		62	118	126.5	75	34	13		32
VZXF-L-...-G1-...-V4B2V-50-...	G1		62	121.5	135	90	34	15		41
VZXF-L-...-G1-...-V4ANV-80-...			94	169	176	90	49	15		41
VZXF-L-...-G114-...-V4B2V-50-...	G1 1/4		62	142.5	156.5	110	34	17		50
VZXF-L-...-G114-...-V4ANV-80-...			94	177	188	110	49	17		50
VZXF-L-...-G112-...-V4B2V-50-...	G1 1/2		62	146	165	120	34	19		55
VZXF-L-...-G112-...-V4ANV-80-...			94	181	197	120	49	19		55
VZXF-L-...-G2-...-V4ANV-80-...	G2		94	193	216.5	150	49	21		70

Ordering data

	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no.	Type code
	G1/2	3.8	-0.9	2	1300	3536502	VZXF-L-M22C-M-A-G12-130-V4B2V-50-V
	G3/4	7.5		2	1400	3536650	VZXF-L-M22C-M-A-G34-180-V4B2V-50-V
	G1	12		2	1600	3536659	VZXF-L-M22C-M-A-G34-180-V4B2V-50-V
		12.5		1	3600	3536677	VZXF-L-M22C-M-A-G1-240-V4ANV-80-V
	G1 1/4	18.5		2	2200	3536686	VZXF-L-M22C-M-A-G114-310-V4B2V-50-V
		19		1	3800	3536711	VZXF-L-M22C-M-A-G114-310-V4ANV-80-V
	G1 1/2	25		2	2500	3536717	VZXF-L-M22C-M-A-G112-350-V4B2V-50-V
		29		1	4300	3536771	VZXF-L-M22C-M-A-G112-350-V4ANV-80-V
	G2	43		1	5400	3536786	VZXF-L-M22C-M-A-G2-450-V4ANV-80-V

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

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Corrosion resistance class CRC 2 to Festo standard FN 940070

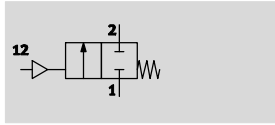
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.


Angle seat valves VZXF


Stainless steel casting with EX certification

FESTO

Function



-  - Flow rate Kv
3.3 ... 34.5 m³/h

-  - G1/2 ... G2



General technical data						
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
Nominal width DN [mm]	13	18	24	31	35	45
Design	Poppet valve with piston actuator					
Type of actuation	Pneumatic					
Type of mounting	In-line installation					
Line connection	Threaded collar to DIN ISO 228-1					
Sealing principle	Soft					
Mounting position	Any					
Valve function	2/2-way, closed, monostable					
Pneumatic connection	Female thread G1/8					
Flow direction	Non-reversible					
Type of control	Externally controlled					
Reset method	Mechanical spring					
Exhaust function	Without flow control option					
Flow direction	VZXF-...-A-...	Over valve seat, for gaseous media				
	VZXF-...-B-...	Under valve seat, for gaseous and liquid media				

Angle seat valves VZXF

Stainless steel casting with EX certification

Operating and environmental conditions							
Line connection	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2	
Nominal pressure of process valve PN	40						
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]						
Operating pressure [bar]	6 ... 10						
Medium	Vapour						
	Inert gases						
	Filtered compressed air, grade of filtration 200 µm						
	VZXF-...-B-... additionally	Mineral oil-based hydraulic fluid					
		Mineral oil					
		Neutral fluids					
Water							
Max. viscosity [mm ² /s]	600						
Ambient temperature [°C]	-10 ... +60						
Temperature of medium [°C]	-40 ... +200						
CE marking (see declaration of conformity) ¹⁾	-				To EU Pressure Equipment Directive		

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

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	c TX X
ATEX category for dust	II 2D
Type of ignition protection for dust	c TX X
Explosion-proof ambient temperature rating [°C]	-10°C ≤ Ta ≤ +60°C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

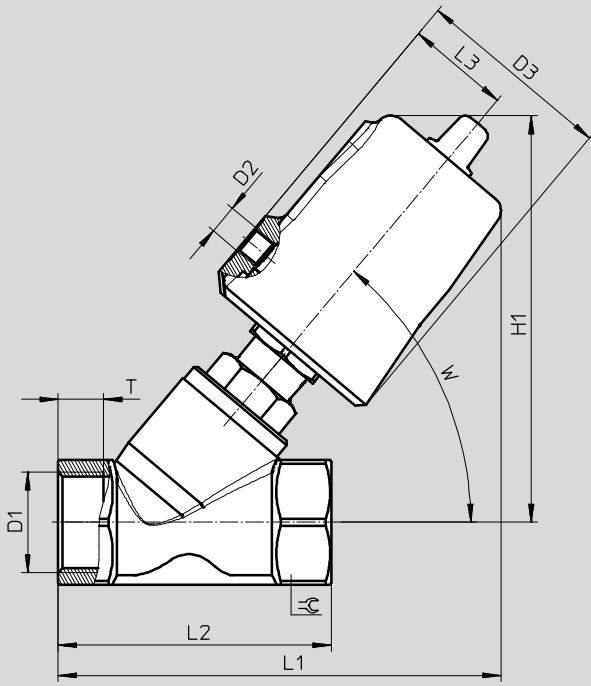
Materials	Material number
Process valve housing	Stainless steel casting 1.4408
Actuator housing	High-alloy stainless steel
Spindle washer	PTFE
Seat seal	PTFE
Note on materials	Contains paint-wetting impairment substances
	RoHS-compliant

Angle seat valves VZXF

Stainless steel casting with EX certification

Dimensions

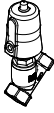
Download CAD data → www.festo.com



	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	↻
VZXF-L-...-G12-...-V4V4T-50-...	G1/2	G1/8	62	129	135	65	34	12	50°	27
VZXF-L-...-G34-...-V4V4T-50-...	G3/4			130	138	75		13		32
VZXF-L-...-G1-...-V4V4T-50-...	G1			135	146	90		15		42
VZXF-L-...-G114-...-V4V4T-50-...	G1 1/4			151	155	110		17		50
VZXF-L-...-G112-...-V4V4T-50-...	G1 1/2			155	174	120		19		55
VZXF-L-...-G2-...-V4V4T-50-...	G2			167	193	150		21		70

Angle seat valves VZXF

Stainless steel casting with EX certification

Ordering data							
	Line connection	Flow rate Kv [m³/h]	Pressure of medium [bar]	Corrosion resistance CRC ¹⁾	Product weight [g]	Part no.	Type code
	G1/2	3.3	0 ... 40	3	1300	3539723	VZXF-L-M22C-M-B-G12-130-M1-V4V4T-50-40-EX4
	G3/4	6.5	0 ... 20		1400	3539749	VZXF-L-M22C-M-B-G34-180-M1-V4V4T-50-20-EX4
		7.5	0 ... 16			3539748	VZXF-L-M22C-M-A-G34-180-M1-V4V4T-50-16-EX4
	G1	11	0 ... 10		1600	3539787	VZXF-L-M22C-M-B-G1-240-M1-V4V4T-50-10-EX4
		12	0 ... 16			3539786	VZXF-L-M22C-M-A-G1-240-M1-V4V4T-50-16-EX4
	G1 1/4	10.7	0 ... 7		2200	3539820	VZXF-L-M22C-M-B-G114-310-M1-V4V4T-50-7-EX4
		18.5	0 ... 9			3539819	VZXF-L-M22C-M-A-G114-310-M1-V4V4T-50-9-EX4
	G1 1/2	17.5	0 ... 6		2500	3539931	VZXF-L-M22C-M-B-G112-350-M1-V4V4T-50-6-EX4
		25	0 ... 7			3539930	VZXF-L-M22C-M-A-G112-350-M1-V4V4T-50-7-EX4
	G2	19.5	0 ... 3		3500	3540148	VZXF-L-M22C-M-B-G2-450-M1-V4V4T-50-3-EX4
		34.5	0 ... 4			3540147	VZXF-L-M22C-M-A-G2-450-M1-V4V4T-50-4-EX4

1) 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 requirements for the surface and which are in direct contact with a normal industrial environment.