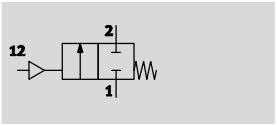
Angle seat valve VZXF

Technical data – Gunmetal (red brass), temperature of medium –40 … +200 °C

Function



- Flow rate Kv
  3.5 … 40 m^3/h

- G½ … G2

General technical data				
Process valve connection		G½	G¾	G1
Pneumatic connection		G ⅛		
Nominal size DN		15	20	25
Nominal width	[mm]	12	16	23
Valve function		2/2-way, closed, monostable		
Design		Poppet valve with spring return		
Type of mounting		In-line installation		
Mounting position		Any		
Direction of flow		Non-reversible		
Exhaust function		No flow control		
Sealing principle		Soft		
Reset method		Mechanical spring		
Type of actuation		Pneumatic		
Type of pilot control		Externally actuated		

Process valve connection		G1¼	G1½	G2
Pneumatic connection		G ⅛		
Nominal size DN		32	40	50
Nominal width	[mm]	29	35	43
Valve function		2/2-way, closed, monostable		
Design		Poppet valve with spring return		
Type of mounting		In-line installation		
Mounting position		Any		
Direction of flow		Non-reversible		
Exhaust function		No flow control		
Sealing principle		Soft		
Reset method		Mechanical spring		
Type of actuation		Pneumatic		
Type of pilot control		Externally actuated		

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Operating and environmental conditions							
Process valve connection		G½		G¾		G1	
Variant		…-M-A-…	…-M-B-…	…-M-A-…	…-M-B-…	…-M-A-…	…-M-B-…
Nominal pressure of process valve PN		16					
Operating pressure	[bar]	6 … 10					
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]					
Medium		Steam					
		Inert gases					
		Filtered compressed air, degree of filtration 200 µm					
		–	Mineral oil-based hydraulic oil	–	Mineral oil-based hydraulic oil	–	Mineral oil-based hydraulic oil
		–	Mineral oil	–	Mineral oil	–	Mineral oil
		–	Neutral fluids	–	Neutral fluids	–	Neutral fluids
		–	Water	–	Water	–	Water
Max. viscosity	[mm²/s]	600					
Ambient temperature	[°C]	–10 … +60					
Temperature of medium	[°C]	–40 … +200					
CE marking (see declaration of conformity)		–					

Process valve connection		G1¼		G1½		G2	
Variant		…-M-A-…	…-M-B-…	…-M-A-…	…-M-B-…	…-M-A-…	…-M-B-…
Nominal pressure of process valve PN		16					
Operating pressure	[bar]	6 … 10					
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]					
Medium		Steam					
		Inert gases					
		Filtered compressed air, degree of filtration 200 µm					
		–	Mineral oil-based hydraulic oil	–	Mineral oil-based hydraulic oil	–	Mineral oil-based hydraulic oil
		–	Mineral oil	–	Mineral oil	–	Mineral oil
		–	Neutral fluids	–	Neutral fluids	–	Neutral fluids
		–	Water	–	Water	–	Water
Max. viscosity	[mm²/s]	600					
Ambient temperature	[°C]	–10 … +60					
Temperature of medium	[°C]	–40 … +200					
CE marking (see declaration of conformity)		To EU Pressure Equipment Directive					

Materials				
Angle seat valves	…-H3ALT-…	…-H3B1T-…	Material number	
1	Housing	Gunmetal (red brass)		CC499K
2	Actuator head	Aluminium	Brass	–
3	Stem seal	PTFE		–
	Seat seal	PTFE		–
–	Note on materials	Contains paint-wetting impairment substances, RoHS compliant		

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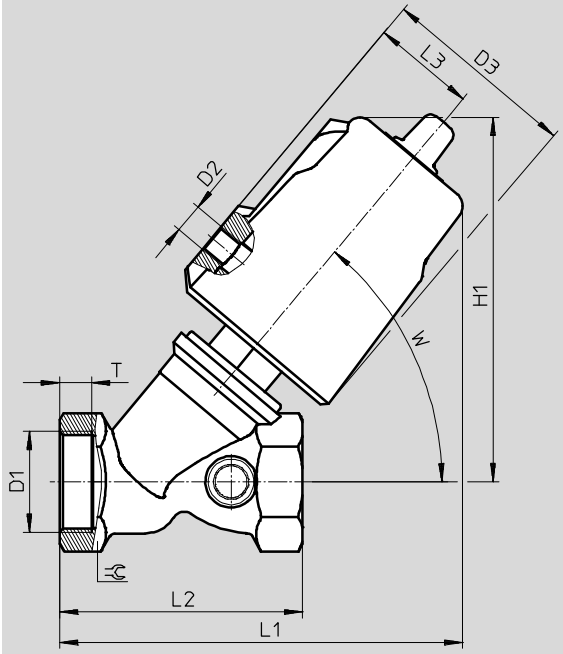
Dimensions Download CAD data ➔

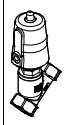


	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	⫧
VZXF-L-…-G12-…-H3B1T-50-…	G½			130	135.5	66		13		27
VZXF-L-…-G34-…-H3B1T-50-…	G¾		62	130	140	75	34	14.5		32
VZXF-L-…-G1-…-H3B1T-50-…	G1			133	143	80		10.5		41
VZXF-L-…-G114-…-H3B1T-50-…	G1¼			148	160	97		12.5		50
VZXF-L-…-G114-…-H3ALT-80-…	G1¼	G⅛	94	180	190	97	49	12.5	50°	50
VZXF-L-…-G112-…-H3B1T-50-…	G1½		62	152.5	167	107	34	14.5		55
VZXF-L-…-G112-…-H3ALT-80-…	G1½		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 valve VZXF

Technical data – Gunmetal (red brass), temperature of medium –40 … +200 °C

Ordering data – Angle seat valve VZXF

	Process valve connection	Flow rate Kv [m³/h]	Medium pressure [bar]	Corrosion resistance CRC[1)]	Product weight [g]	Part No.	Type
	G½	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**
	G¾	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	–	2000	**3540768**	**VZXF-L-M22C-M-B-G1-230-M1-H3ALT-80-16**
	G1¼	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	–	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**
	G1½	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	–	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	–	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 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).