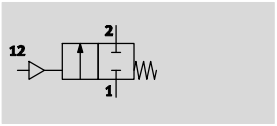
Angle seat valve VZXF, NPT

Technical data – Gunmetal (red brass), temperature of medium –10 … +80 °C

Function



- Flow rate Kv
  3.5 … 28 m³/h

- Connecting thread
  NPT½ … NPT2

General technical data				
Process valve connection		NPT½	NPT¾	NPT1
Auxiliary pilot air port		G⅛		
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		With external control		
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		

Process valve connection		NPT1¼	NPT1½	NPT2
Auxiliary pilot air port		G⅛		
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		With external control		
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		

Angle seat valve VZXF, NPT

Technical data – Gunmetal (red brass), temperature of medium –10 … +80 °C

Operating and environmental conditions				
Process valve connection		NPT1½	NPT¾	NPT1
Nominal pressure of process valve PN		16		
Medium		Filtered compressed air, grade of filtration 200 µm		
		Mineral oil-based hydraulic oil		
		Inert gases		
		Mineral oil		
		Neutral fluids		
		Water		
Max. viscosity	[mm²/s]	600		
Ambient temperature	[°C]	–10 … +60		
Temperature of medium	[°C]	–10 … +80		
CE marking (see declaration of conformity)		–		

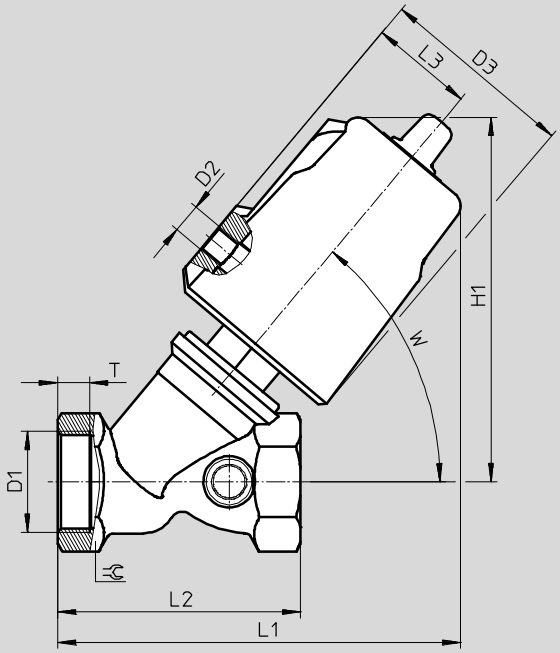
Process valve connection		NPT1¼	NPT1½	NPT2
Nominal pressure of process valve PN		16		
Medium		Filtered compressed air, grade of filtration 200 µm		
		Mineral oil-based hydraulic oil		
		Inert gases		
		Mineral oil		
		Neutral fluids		
		Water		
Max. viscosity	[mm²/s]	600		
Ambient temperature	[°C]	–10 … +60		
Temperature of medium	[°C]	–10 … +80		
CE marking (see declaration of conformity)		To EU Pressure Equipment Directive		

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

Angle seat valve VZXF, NPT

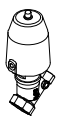
Technical data – Gunmetal (red brass), temperature of medium –10 … +80 °C

Dimensions Download CAD data ➔



	D1	D2	D3 ∅	H1	L1	L2	L3	T	W	⫧
VZXF-L-…-N12-…-H3B1-50-…	NPT½	G⅛	62	112	123	66	34	8	50°	27
VZXF-L-…-N34-…-H3B1-50-…	NPT¾			117	130	75		9		33
VZXF-L-…-N1-…-H3B1-50-…	NPT1			121	133	80		10.5		41
VZXF-L-…-N114-…-H3B1-50-…	NPT1¼			139	154	97		12.5		50
VZXF-L-…-N112-…-H3B1-50-…	NPT1½			145	161	107		14.5		56
VZXF-L-…-N2-…-H3B1-50-…	NPT2			154	171	124		16.5		68

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
	NPT½	3.5	0 … 16	1	1200	**1002533**	**VZXF-L-M22C-M-A-N12-120-H3B1-50-16**
		3.7				**1002534**	**VZXF-L-M22C-M-B-N12-120-H3B1-50-16**
	NPT¾	6.7	0 … 16		1300	**1002535**	**VZXF-L-M22C-M-A-N34-160-H3B1-50-16**
		5.2				**1002536**	**VZXF-L-M22C-M-B-N34-160-H3B1-50-16**
	NPT1	10.8	0 … 16		1500	**1002537**	**VZXF-L-M22C-M-A-N1-230-H3B1-50-16**
		9.6	0 … 10			**1002538**	**VZXF-L-M22C-M-B-N1-230-H3B1-50-10**
	NPT1¼	19	0 … 10		1900	**1002539**	**VZXF-L-M22C-M-A-N114-290-H3B1-50-10**
		6	0 … 7			**1002540**	**VZXF-L-M22C-M-B-N114-290-H3B1-50-7**
	NPT1½	23	0 … 8		2300	**1002541**	**VZXF-L-M22C-M-A-N112-350-H3B1-50-8**
		16.5	0 … 6			**1002542**	**VZXF-L-M22C-M-B-N112-350-H3B1-50-6**
	NPT2	28	0 … 4		2800	**1002543**	**VZXF-L-M22C-M-A-N2-430-H3B1-50-4**
		23	0 … 3			**1002544**	**VZXF-L-M22C-M-B-N2-430-H3B1-50-3**

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).