

Pinch valves VZQA

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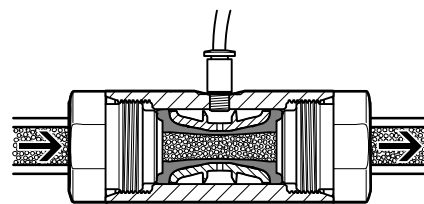
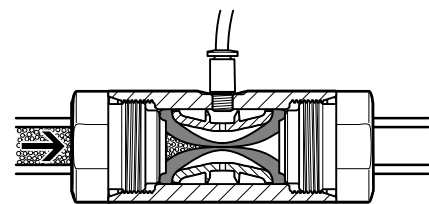
Pinch valves VZQA

Features

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Application	Design	Areas of application
The valve can be used to control liquid and dusty media, solids and material mixtures	- Easy-to-clean housing (clean design) - Open or closed in normal position - Pinch valve sleeve made from elastomer	The pinch valve may only be used in systems where a damaged or leaking seal cartridge cannot pose a hazard to people or property. The media circuit must be sized for the set operating pressure. The designer and operator of the system are responsible for ensuring the product is suitable for the system as well as for ensuring that the seal cartridge material is resistant to the medium used. Appropriate tests are generally required to assess the suitability. The risks associated with a leaking seal cartridge and the corresponding consequences must be taken into account when planning the system.

VZQA-C-M22C function (normally closed)	VZQA-C-M22U function (normally open)
The pinch valve is a 2/2-way valve for controlling material flows. It is closed in normal position. The shut-off element is a tubular pinch valve sleeve made from elastomer. The sleeve opens when the valve is pressurised, releasing the material flow. When pressure is no longer applied,	The pinch valve is a 2/2-way valve for controlling material flows. It is open in normal position. The shut-off element is a tubular pinch valve sleeve made from elastomer. The sleeve closes when the valve is pressurised, completely shutting off the material flow. When pressure is no longer applied, the normally closed valve will open due to the inherent

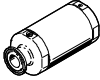
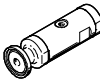
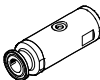
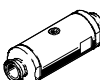


 Note The hermetic separation between the media circuit and control circuit is no longer guaranteed if wear causes the pinch valve sleeve to leak. The flow medium can then get into the control circuit, from where it can escape. Any potential hazard (e.g. due to aggressive or hot media) must be ruled out. The compressed air supply to the control valve must be protected against the	ingress of the flow medium using a suitable check valve, or a suitable protection against return flow must be integrated in the pilot line in the immediate vicinity of the media valve. Pilot medium can get into the media circuit if the pinch valve sleeve fails. The media circuit must therefore be sized for the set operating pressure. Any potential hazard must be ruled out.
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Pinch valves VZQA

Product range overview

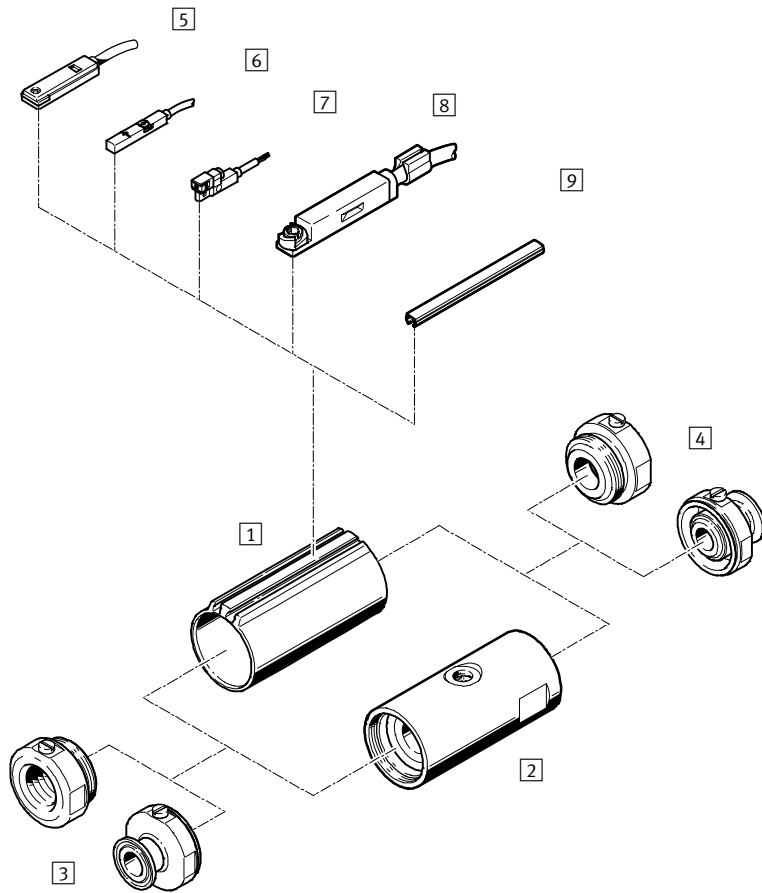
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Feature	Type	Nominal width DN	Process valve connection	Flow rate	Pilot air port 12 / max. permissible thread length	→ Page/Internet
				[m³/h]		
	VZQA-C-M22C-...	15	G1/2	5	M5 / 5 mm	6
			1/2 NPT			
			Clamp to DIN 32676, series A			
			Clamp to ASME-BPE, type A			
	VZQA-C-M22U-...	6	G1/4	0.7	M5 / 4.5 mm	9
			1/4 NPT			
			Clamp to DIN 32676, series A			
			Clamp to ASME-BPE, type A			
	VZQA-C-M22U-...	15	G1/2	5	G1/8 / 5 mm	9
			1/2 NPT			
			Clamp to DIN 32676, series A			
			Clamp to ASME-BPE, type A			
	VZQA-C-M22U-...	25	G1	18	G1/8 / 6 mm	9
			1 NPT			
			Clamp to DIN 32676, series A			
			Clamp to ASME-BPE, type A			
			Clamp to ASME-BPE, type B			

Pinch valves VZQA

Peripherals overview

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Accessories	Description	→ Page/Internet
1 Basic body VZQA-C-M22C	Normally closed	6
2 Basic body VZQA-C-M22U	Normally open	9
3 Connection type 1	Various connections are available: • G female thread • NPT female thread • Clamp to DIN 32676, series A • Clamp to ASME-BPE, type A • Clamp to ASME-BPE, type B	–
4 Connection type 2	Various connections are available: • G female thread • NPT female thread • Clamp to DIN 32676, series A • Clamp to ASME-BPE, type A • Clamp to ASME-BPE, type B	–
Proximity sensors for T-slot		14
5 SME-8	Magnetic reed, insertable in slot lengthwise	
6 SME-8M	Magnetic reed, insertable in the slot from above	
6 SMT-8M	Magneto-resistive, insertable in the slot from above	
7 SMT-8G	Magneto-resistive, insertable in slot lengthwise	
8 SMT-8F	Magneto-inductive, NAMUR, insertable in the slot from above, to EU Explosion Protection Directive	
9 Slot cover ABP-5-S	For protecting the sensor cable and keeping dirt out of the sensor slots	15

Pinch valves VZQA

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Type codes

VZQA - C - M22U - 6 - G G - V4 V4 N - 4 - E

Type

VZQA	Pinch valve, pneumatically actuated
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Product version

C	Easy-to-clean design
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Valve function

M22C	2/2-way valve, normally closed
M22U	2/2-way valve, normally open

Nominal width DN

6	6 mm
15	15 mm
25	25 mm

Connection type 1

G	G female thread
T	NPT female thread
S1	Clamp to ASME-BPE, type A
S5	Clamp to DIN 32676, series A
S12	Clamp to ASME-BPE, type B

Connection type 2

G	G female thread
T	NPT female thread
S1	Clamp to ASME-BPE, type A
S5	Clamp to DIN 32676, series A
S12	Clamp to ASME-BPE, type B

Housing material

AL	Aluminium
V2	Stainless steel
V4	Stainless steel

Housing cover material

AL	Aluminium
V4	Stainless steel
POM	Polyoxymethylene

Shut-off element material

E	EPDM
N	NBR
S1	Silicone

Pressure range of media

4	0 ... 4 bar
6	0 ... 6 bar

Sensing type

-	None
E	End positions

Pinch valves VZQA

Technical data M22C

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Function



General technical data		
Nominal width DN		15
Nominal pressure of process valve PN		10
Design		Pinch valve, pneumatically actuated
Type of actuation		Pneumatic
Sealing principle		Soft
Mounting position		Any
Valve function		2/2-way, closed, monostable
Direction of flow		Reversible
Reset method		Mechanical spring
Type of piloting		Externally actuated
Type of mounting		In-line installation
Auxiliary pilot air port 12		M5
Switching time on	[ms]	150
Switching time off	[ms]	250
Flow rate Kv	[m³/h]	5
Max. viscosity	[mm²/s]	4000

Operating and environmental conditions		
Operating pressure	[bar]	3.5 ... 6
Burst pressure	[bar]	16
Medium pressure	[bar]	0 ... 6
Ambient temperature	[°C]	-5 ... +60
Temperature of medium	[°C]	-5 ... +100
Storage temperature	[°C]	6 ... 8
Suitable for use in the food industry ¹⁾		As per manufacturer's declaration
Pilot medium		Compressed air to ISO 8573-1:2010 [7:4:1]
Medium		Compressed air to ISO 8573-1:2010 [-:-1]
		Water

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

Materials		
VZQA-C-M22C-...	V2V4E	ALV4E
Housing	High-alloy stainless steel	Wrought aluminium alloy
Housing cover	High-alloy stainless steel	
Bowl	PA6	
Seals	FPM	
Shut-off element	EPDM	
Note on materials	RoHS compliant	

Pinch valves VZQA

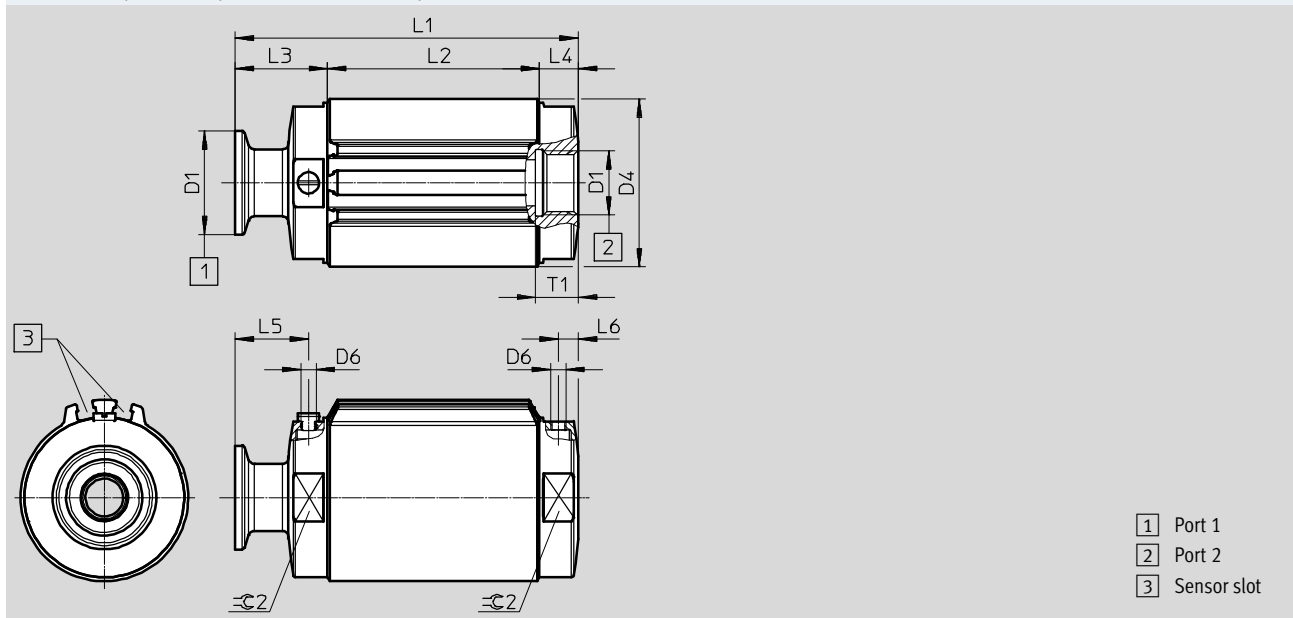
Technical data M22C

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Dimensions

Download CAD data → www.festo.com

Illustration of port 1: clamp to DIN 32676, series A, port 2: G1/2



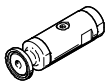
Process valve connection	D1	Housing material	D4 Ø	D6	L2	L3	L4	L5	L6	T1	≈ 2
Nominal width DN15											
G	G1/2	V2	52.4	M5	69.5	12.8	12.8	6.6	6.6	14	50
		AL	55			12.8	12.8	6.6	6.6		
T	1/2 NPT	V2	52.4			12.8	12.8	6.6	6.6		
		AL	55			12.8	12.8	6.6	6.6		
S5	DIN 32676, series A	V2	55			30.3	30.3	24	24		
S1	ASME-BPE, type A	V2	55			30.3	30.3	24	24		

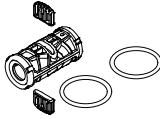
Connection types	L1
Nominal width DN15	
GG	95
GT, TT, TG	95
S1S1, S1S5, S5S5, S5S1	130
S1G, S1T, GS1, TS1, S5G, S5T, GS5, TS5	112.5

Pinch valves VZQA

Technical data M22C

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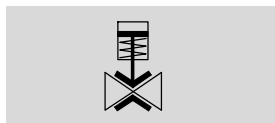
Ordering data						
Pinch valves	Nominal width DN	Process valve connection	Material shut-off element	Weight [g]	Part No.	Type
	15	Clamp to DIN 32676, series A	EPDM	666	3412424	VZQA-C-M22C-15-S5S5-V2V4E-6
		Clamp to DIN 32676, series A	EPDM	607	3412425	VZQA-C-M22C-15-S5S5-ALV4E-6-E
		G1/2	EPDM	536	3412426	VZQA-C-M22C-15-GG-V2V4E-6

Ordering data						
Seal cartridge	Nominal width DN	Storage temperature [°C]	Material shut-off element	Note on materials	Part No.	Type
	15	6 ... 8	EPDM	RoHS compliant	3418619	VAVC-Q2-M22C-15-E

Pinch valves VZQA

Technical data M22U

Function



General technical data				
Nominal width DN		6	15	25
Nominal pressure of process valve PN		10		
Design		Pinch valve, pneumatically actuated		
Type of actuation		Pneumatic		
Sealing principle		Soft		
Mounting position		Any		
Valve function		2/2-way, open, monostable		
Direction of flow		Reversible		
Reset method		Rebound resilience		
Type of piloting		Externally actuated		
Type of mounting		In-line installation		
Auxiliary pilot air port 12		M5	G1/8	G1/8
Switching time on	[ms]	125	250	250
Switching time off	[ms]	125	250	250
Flow rate Kv	[m³/h]	0.7	5	18
Max. viscosity	[mm²/s]	4000		

Materials				
VZQA-C-M22U-...	V4V4	ALAL	ALV4	ALPOM
Housing	High-alloy stainless steel	Wrought aluminium alloy		
Housing cover	High-alloy stainless steel	Wrought aluminium alloy	High-alloy stainless steel	POM
Bowl	PA6			
Seals	FPM			
Note on materials				
Shut-off element NBR, EPDM, VMQ	RoHS compliant			
Shut-off element VMQ	Contains paint-wetting impairment substances			

Pinch valves VZQA

Technical data M22U

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Operating and environmental conditions			
Nominal width DN	6	15	25
Operating pressure [bar]	1 ... 6.5		
Overload pressure [bar]	7.8		
Medium pressure [bar]	0 ... 4		
Differential pressure [bar]			
Shut-off element NBR, EPDM	2.5	2.5	2.5
Shut-off element VMQ	2.5	2.5	3
Burst pressure [bar]	16		
Ambient temperature [°C]	-5 ... +60		
Temperature of medium [°C]			
Shut-off element NBR	-5 ... +60		
Shut-off element EPDM	-5 ... +100		
Shut-off element VMQ	-5 ... +150		
Storage temperature [°C]			
Shut-off element NBR, EPDM	6 ... 8		
Shut-off element VMQ	0 ... 25		
Suitable for use in the food industry			
Shut-off element EPDM	As per manufacturer's declaration ¹⁾		
Shut-off element NBR, VMQ	See declaration of conformity		
Pilot medium			
Shut-off element EPDM	Compressed air to ISO 8573-1:2010 [7:4:1]		
Shut-off element NBR, VMQ	Compressed air to ISO 8573-1:2010 [7:4:4]		
Medium			
Shut-off element EPDM	Compressed air to ISO 8573-1:2010 [-::1]		
	Water		
Shut-off element NBR, VMQ	Compressed air to ISO 8573-1:2010 [-:::]		

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

Pinch valves VZQA

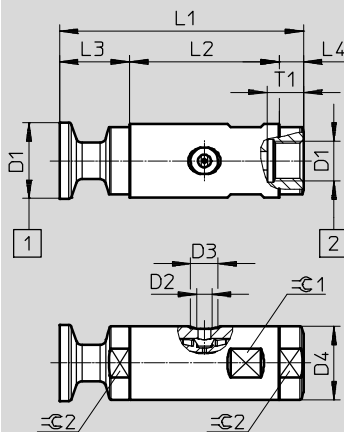
Technical data M22U

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Dimensions

Download CAD data → www.festo.com

Illustration of port 1: clamp to DIN 32676, series A, port 2: G1/2



1 Port 1
2 Port 2

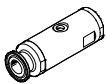
Process valve connection	D1	Housing material	D2	D3 Ø	D4 Ø	L2	L3	L4	T1	1	2
Nominal width DN6											
G	G1/4	V4, AL	M5	9	24	49	8	8	12	22	22
T	1/4 NPT	V4, AL					8	8			
S5	DIN 32676, series A	V4					23	23			
S1	ASME-BPE, type A	V4					23	23			
Nominal width DN15											
G	G1/2	V4, AL	G1/8	15	38	81	7	7	14	36	36
		POM					12	12			
T	1/2 NPT	V4, AL					7	7			
		POM					12	12			
S5	DIN 32676, series A	V4					24.5	24.5			
S1	ASME-BPE, type A	V4					24.5	24.5			
Nominal width DN25											
G	G1	V4, AL	G1/8	15	58	109	10.5	10.5	18	55	55
		POM					15.5	15.5			
T	1 NPT	V4, AL					10.5	10.5			
		POM					15.5	15.5			
S5	DIN 32676, series A	V4					28	28			
S1	ASME-BPE, type A	V4					28	28			
S12	ASME-BPE, type B	V4	28	28							

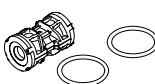
Connection types	L1		
	Nominal width DN6	Nominal width DN15	Nominal width DN25
GG, GT, TT, TG of V4 or AL	65	95	130
GG, GT, TT, TG of POM	–	105	140
GG, GT, TT, TG of V4 or AL with POM	–	100	135
S1S1, S1S5, S5S5, S5S1, S1S12, S12S1, S5S12, S12S5, S12S12	80	130	165
S1G, S1T, GS1, TS1, S5G, S5T, GS5, TS5, S12G, S12T, GS12, TS12	95	112.5	147.5

Pinch valves VZQA

Technical data M22U

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Ordering data							
Pinch valves	Nominal width DN	Process valve connection	Material shut-off element	Weight [g]	Part No.	Type	
	6	G1/4	NBR	105.5	2931679	VZQA-C-M22U-6-GG-ALV4N-4	
			EPDM	157	2931678	VZQA-C-M22U-6-GG-V4V4E-4	
			Silicone	157	2931683	VZQA-C-M22U-6-GG-V4V4S1-4	
		1/4 NPT	Silicone	157	2931685	VZQA-C-M22U-6-TT-V4V4S1-4	
		Clamp to DIN 32676, series A	EPDM	215	2931681	VZQA-C-M22U-6-S5S5-V4V4E-4	
			Silicone	215	2931682	VZQA-C-M22U-6-S5S5-V4V4S1-4	
		Clamp to ASME-BPE, type A	Silicone	195	2931684	VZQA-C-M22U-6-S1S1-V4V4S1-4	
	15	G1/2	NBR	431	3022830	VZQA-C-M22U-15-GG-V4V4N-4	
			NBR	265	3022831	VZQA-C-M22U-15-GG-ALV4N-4	
			NBR	158	3022832	VZQA-C-M22U-15-GG-ALPOMN-4	
			EPDM	431	3022829	VZQA-C-M22U-15-GG-V4V4E-4	
			Silicone	431	3022835	VZQA-C-M22U-15-GG-V4V4S1-4	
		1/2 NPT	Silicone	431	3022838	VZQA-C-M22U-15-TT-V4V4S1-4	
		Clamp to DIN 32676, series A	EPDM	559	3022833	VZQA-C-M22U-15-S5S5-V4V4E-4	
			Silicone	559	3022834	VZQA-C-M22U-15-S5S5-V4V4S1-4	
		Clamp to ASME-BPE, type A	Silicone	495	3022837	VZQA-C-M22U-15-S1S1-V4V4S1-4	
	25	G1	EPDM	1178	3968922	VZQA-C-M22U-25-GG-V4V4E-4	
			EPDM	480	3968923	VZQA-C-M22U-25-GG-ALALE-4	
			Silicone	1178	3968926	VZQA-C-M22U-25-GG-V4V4S1-4	
		1 NPT	Silicone	1178	3968928	VZQA-C-M22U-25-TT-V4V4S1-4	
		Clamp to DIN 32676, series A	EPDM	1474	3968924	VZQA-C-M22U-25-S5S5-V4V4E-4	
			Silicone	1474	3968925	VZQA-C-M22U-25-S5S5-V4V4S1-4	
		Clamp to ASME-BPE, type B	Silicone	1516	3968927	VZQA-C-M22U-25-S1S1S1-V4V4S1-4	

Ordering data							
Seal cartridge	Nominal width DN	Material shut-off element	Storage temperature [°C]	Note on materials	Food-safe	Part No.	Type
	6	NBR	6 ... 8	–	RoHS-compliant	–	2392881 VAVC-Q2-M22U-6-N
		EPDM				1)	2392882 VAVC-Q2-M22U-6-E
		VMQ (silicone)	0 ... 25	Contains PWIS (paint-wetting impairment substances)		2)	2392883 VAVC-Q2-M22U-6-S1
	15	NBR	6 ... 8	–	RoHS-compliant	–	3019151 VAVC-Q2-M22U-15-N
		EPDM				1)	3019148 VAVC-Q2-M22U-15-E
		VMQ (silicone)	0 ... 25	Contains PWIS (paint-wetting impairment substances)		2)	3019144 VAVC-Q2-M22U-15-S1
	25	NBR	6 ... 8	–	RoHS-compliant	–	3970092 VAVC-Q2-M22U-25-N
		EPDM				–	3970093 VAVC-Q2-M22U-25-E
		VMQ (silicone)	0 ... 25	Contains PWIS (paint-wetting impairment substances)		2)	3970094 VAVC-Q2-M22U-25-S1

- 1) See supplementary material information.
Additional information www.festo.com/sp → Certificates.
- 2) See declaration of conformity

Pinch valves VZQA

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Ordering data – Modular product system

Ordering table						
VZQA-C-...	M22C	M22U	Conditions	Code		Entry code
M Module no.	3174282	2037881				
Product type	Pinch valve			VZQA		VZQA
Version	Easy-to-clean design			-C		-C
Valve function	2/2-way valve, normally closed	–		-M22C		
	–	2/2-way valve, normally open		-M22U		
Nominal diameter DN	–	6		-6		
	15			-15		
	–	25		-25		
Process valve connection type 1	G female thread			-G		
	Clamp to ASME-BPE, type A		1 4 6	-S1		
	Clamp to DIN 32676, series A		1	-S5		
	NPT female thread			-T		
	Clamp to ASME-BPE, type B		1 3 6 7	-S12		
Process valve connection type 2	G female thread			G		
	Clamp to ASME-BPE, type A		1 4 6	S1		
	Clamp to DIN 32676, series A		1	S5		
	NPT female thread			T		
	Clamp to ASME-BPE, type B		1 3 6 7	-S12		
Housing material	Aluminium			-AL		
	Stainless steel (chrome-nickel, austenitic)	–		-V2		
	–	Stainless steel (chrome-nickel-molybdenum, austenitic)		-V4		
Housing cover material	Aluminium			AL		
	–	Polyoxymethylene	3	POM		
	Stainless steel (chrome-nickel-molybdenum, austenitic)			V4		
Shut-off element material	EPDM			E		
	–	NBR		N		
	–	Silicone	4	S1		
Pressure range of media [bar]	–	0 ... 4		-4		
	0 ... 6	–		-6		
O Sensing type	None	–				
	End positions	–	2 5	-E		

- 1 S1, S5, S12** Only in combination with housing cover material V4 (stainless steel)
- 2 E** Only in combination with valve function M22C
- 3 POM, S12** Not in combination with nominal diameter DN6
- 4 S1** Not in combination with nominal diameter DN25
- 5 E** Not in combination with housing material V2 (stainless steel)
- 6 S1, S12** Not in combination with nominal diameter DN25 and valve function M22C
- 7 S12** Not in combination with nominal diameter DN15

- M** Mandatory data
- O** Options

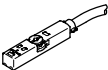
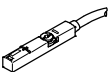
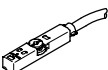
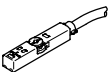
Transfer order code

VZQA – **C** – – – – – –

Pinch valves VZQA

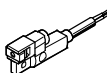
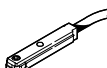
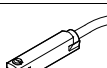
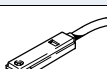
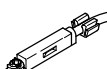
Accessories

FESTO

Ordering data – Proximity sensor for T-slot, magneto-resistive						Technical data → Internet: smt-8		
	Switching output	Electrical connection			Cable length [m]	Part No.	Type	
		Cable	Cable with plug, knurled ring					
			M8x1	M12x1				
N/O contact								
	PNP	–	3-pin	–	0.3	574334	SMT-8M-A-PS-24V-E-0,3-M8D	
		3-wire	–	–	2.5	574335	SMT-8M-A-PS-24V-E-2,5-OE	
		3-wire	–	–	5	574336	SMT-8M-A-PS-24V-E-5,0-OE	
		–	–	3-pin	0.3	574337	SMT-8M-A-PS-24V-E-0,3-M12	
		–	–	–	0.3	574342	SMT-8M-A-PS-24V-E-0,3-M8D-EX2	
	NPN	3-wire	–	–	2.5	574338	SMT-8M-A-NS-24V-E-2,5-OE	
		–	3-pin	–	0.3	574339	SMT-8M-A-NS-24V-E-0,3-M8D	
	Contactless	2-wire	–	–	5	574341	SMT-8M-A-ZS-24V-E-5,0-OE-EX2	
	Contacting, bipolar	–	–	–	0.3	543861	SME-8M-DS-24V-K-0,3-M8D	
		–	3-pin	–	2.5	543862	SME-8M-DS-24V-K-2,5-OE	
		3-wire	–	–	5	543863	SME-8M-DS-24V-K-5,0-OE	
		2-wire	–	–	2.5	543872	SME-8M-ZS-24V-K-2,5-OE	
		3-wire	–	–	7.5	543876	SME-8M-DS-24V-K-7,5-OE	
	N/C contact							
		PNP	3-wire	–	–	7.5	574340	SMT-8M-A-PO-24V-E-7,5-OE
Contacting, bipolar		3-wire	–	–	7.5	546799	SME-8M-DO-24V-K-7,5-OE	
Switchable								
	PNP/NPN	–	3-pin	–	0.3	574343	SMT-8M-A-PNS-24V-E-0,3-M8D	
	PNP PS/PO	–	3-pin	–	0.3	574344	SMT-8M-A-PSO-24V-E-0,3-M8D	

Pinch valves VZQA

Accessories

Ordering data – Proximity sensor for T-slot					Technical data ➔ Internet: crsmt	
	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	PlugM8x1			
N/O contact						
	PNP	3-wire	–	2.5	547859	SMT-8G-PS-24V-E-2,5Q-OE
		–	3-pin	0.3	547860	SMT-8G-PS-24V-E-0,3Q-M8D
	PNP Contacting, bipolar	–	3-pin	–	562019	SMT-8-SL-PS-LED-24-B
		3-wire	–	2.5	150855	SME-8-K-LED-24
		3-wire	–	5.0	175404	SME-8-K5-LED-24
		3-wire	–	7.5	530491	SME-8-K-7,5-LED-24
		–	3-pin	0.3	150857	SME-8-S-LED-24
		2-wire	–	2.5	171169	SME-8-ZS-KL-LED-24
		–	3-pin	–	526622	SME-8-SL-LED-24
		2-wire	–	2.5	161756	SME-8-K-24-S6
		2-wire	–	2.5	152820	SME-8-K-LED-230
			Contacting, bipolar	3-wire	–	1
2-wire	–			1	562516	SME-8-FM-ZS-24V-K-1,0-OE
N/C contact						
	Contacting, bipolar	3-wire	–	7.5	160251	SME-8-O-K-LED-24
NAMUR						
	NAMUR	2-wire	–	5	536956	SMT-8F-I-8,2V-K5,0-OE-EX

Ordering data – Slot cover for T-slot					
	Assembly	Length [m]	Part No.	Type	
	Insertable from above	2x 0.5	151680	ABP-5-S	

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