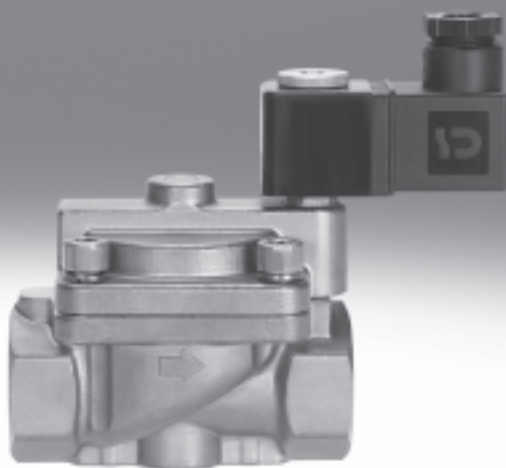


Solenoid valves VZWP, servo-controlled

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Solenoid valves VZWP, servo-controlled

Key features and overview

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Function

The solenoid valve VZWP-L-... is a servo-controlled 2/2-way valve with solenoid coil. The solenoid valve is closed when de-energised. When energised, the differential pressure

from the secondary side of the piston is reduced via the servo hole. The differential pressure lifts the piston away from the valve seat.

General

- N- Connecting thread
G $\frac{1}{4}$... G1
-  - Flow rate Kv
1.5 ... 11.5 m³/h

Application

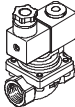
- All applications with a differential pressure of 0.5 bar
- Applications with an open medium circuit

Design

- The valve features a simple, sturdy design. The valve drive only fulfils a pilot control function, which relieves the burden on the main sealing element

Advantages

- High pressures can be controlled with large nominal diameters using small magnets
- The valves can be operated with air, neutral gases and neutral liquids
- The N/C version guarantees that the valve will be closed in the event of a voltage failure

Version	Type	Process valve connection	Nominal size (DN)	Process valve nominal pressure (PN)	→ Page/Internet
	VZWP-L-...	G $\frac{1}{4}$	13	40	4
		G $\frac{3}{8}$	13		
		G $\frac{1}{2}$	13		
		G $\frac{3}{4}$	25		
		G1	25		

Type codes

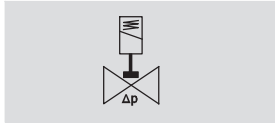
Type codes

Solenoid valves VZWP, servo-controlled

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Technical data

Function



Flow rate Kv
1.5 ... 11.5 m³/h

-N- Connecting thread
G¼ ... G1



General technical data					
Process valve connection	G¼	G¾	G½	G¾	G1
Nominal size (DN)	13	13	13	25	25
Valve function	2/2-way, single solenoid, closed				
Design	Piloted piston poppet valve				
Type of mounting	In-line installation				
Actuation type	Electric				
Type of control	Piloted				
Manual override	None				
Mounting position	Coil preferably on top				
Sealing principle	Soft				
Direction of flow	Non-reversible				
Max. viscosity [mm²/s]	22				
Protection class	IP65				
Product weight [g]	600	575	550	1,500	1,400

Operating and environmental conditions					
Process valve connection	G¼	G¾	G½	G¾	G1
Switching time on [ms]	100	100	100	130	130
Switching time off [ms]	250	250	250	300	300
Standard nominal flow rate [l/min]	1,600	2,100	2,650	8,750	12,250
Flow rate [m³/h]	1.5	2	2.5	8.2	11.5
Operating pressure [bar]	0.5 ... 40				
Process valve nominal pressure (PN)	40				
Differential pressure [bar]	0.5				
Process valve operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] Neutral liquids Inert gases Further media upon request				
Ambient temperature [°C]	-10 ... 35				
Temperature of medium [°C]	-10 ... 80				
Leak rate to EN 12266-1	A				
Corrosion resistance class CRC ¹⁾	1				

1) Corrosion resistance class 1 according to Festo standard 940 070
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Materials		
Solenoid valves		Material number
1 Housing	Cast brass	CW617N
2 Screws	High-alloy stainless steel	1.4301
3 Seals	NBR, FPM	–
– Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	–

Solenoid valves VZWP, servo-controlled

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Technical data

Electrical data – 24 V DC			
			VZWP- ...1- ...
Electrical connection			Type A
			Plug
			To EN 175301-803
Coil characteristics	Direct current DC	[V]	24
		[W]	6.8
Permissible voltage fluctuations		[%]	±10
Duty cycle		[%]	100
Protection class			IP65

Electrical data – 110 V AC				VZWP- ...2A- ...
Electrical connection				Type A
				Plug
				To EN 175301-803
Coil characteristics	Alternating current AC	[V]		110
		[Hz]		50, 60
	Pick-up power	[VA]		10.5
	Holding power	[VA]		8
Permissible voltage fluctuations			[%]	±10
Duty cycle			[%]	100
Protection class				IP65
CE marking (see declaration of conformity)				To EU Low Voltage Directive

Electrical data – 230 V AC				VZWP- ...3A- ...
Electrical connection				Type A
				Plug
				To EN 175301-803
Coil characteristics	Alternating current AC	[V]		230
		[Hz]		50, 60
	Pick-up power	[VA]		10.5
	Holding power	[VA]		7.6
Permissible voltage fluctuations			[%]	±10
Duty cycle			[%]	100
Protection class				IP65
CE marking (see declaration of conformity)				To EU Low Voltage Directive

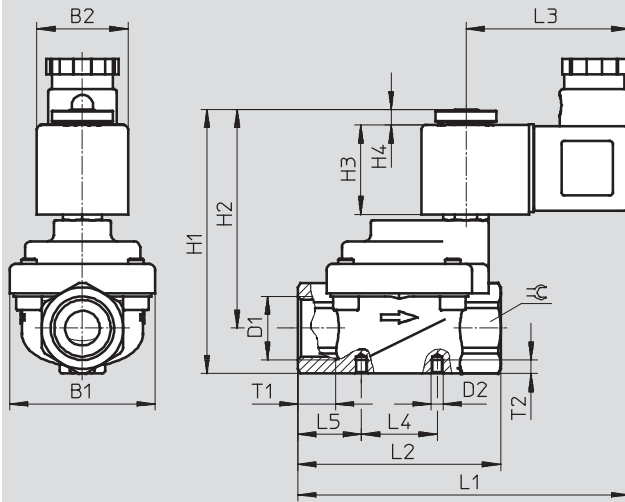
Solenoid valves VZWP, servo-controlled

Technical data

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Dimensions

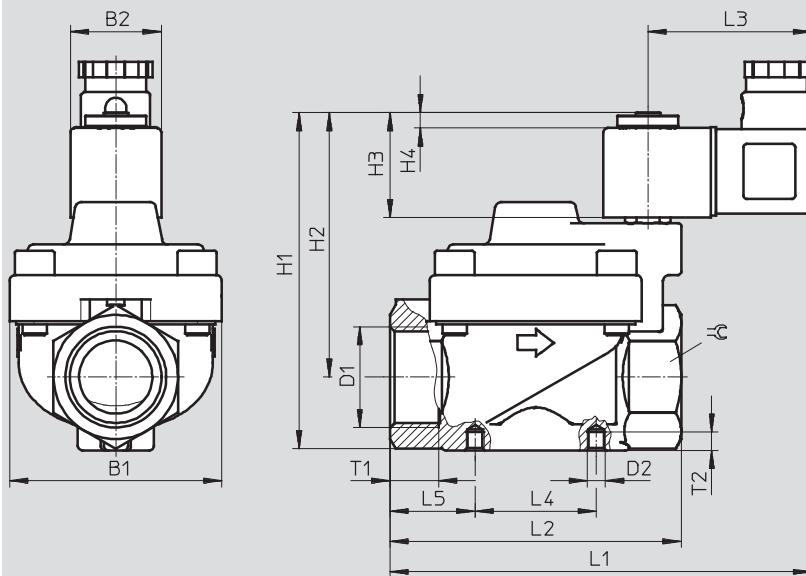
Download CAD Data → www.festo.com/us/cad



	B1	B2	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2	≅
VZWP-L-M22C-G14-130-...	48	30	G1/4	M4	88	73	30	5	110	67	54	25	21	12.5	4.5	27
VZWP-L-M22C-G38-130-...	48	30	G3/8	M4	88	73	30	5	110	67	54	25	21	12.5	4.5	27
VZWP-L-M22C-G12-130-...	48	30	G1/2	M4	88	73	30	5	110	67	54	25	21	12.5	4.5	27

Dimensions

Download CAD Data → www.festo.com/us/cad

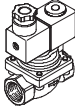


	B1	B2	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2	≅
VZWP-L-M22C-G34-250-...	70	30	G3/4	M6	112	88	30	5	139	96	54	40	28	16	6	41
VZWP-L-M22C-G1-250-...	70	30	G1	M6	112	88	30	5	139	96	54	40	28	16	6	41

Solenoid valves VZWP, servo-controlled

Technical data

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Ordering data		
	Process valve connection	Part No. Type
	G $\frac{1}{4}$	1489940 VZWP-L-M22C-G14-130-1P4-40
		1489950 VZWP-L-M22C-G14-130-2AP4-40
		1489960 VZWP-L-M22C-G14-130-3AP4-40
		1489945 VZWP-L-M22C-G14-130-V-1P4-40
		1489955 VZWP-L-M22C-G14-130-V-2AP4-40
		1489965 VZWP-L-M22C-G14-130-V-3AP4-40
	G $\frac{3}{8}$	1489941 VZWP-L-M22C-G38-130-1P4-40
		1489951 VZWP-L-M22C-G38-130-2AP4-40
		1489961 VZWP-L-M22C-G38-130-3AP4-40
		1489946 VZWP-L-M22C-G38-130-V-1P4-40
		1489956 VZWP-L-M22C-G38-130-V-2AP4-40
		1489966 VZWP-L-M22C-G38-130-V-3AP4-40
	G $\frac{1}{2}$	1489942 VZWP-L-M22C-G12-130-1P4-40
		1489952 VZWP-L-M22C-G12-130-2AP4-40
		1489962 VZWP-L-M22C-G12-130-3AP4-40
		1489947 VZWP-L-M22C-G12-130-V-1P4-40
		1489957 VZWP-L-M22C-G12-130-V-2AP4-40
		1489967 VZWP-L-M22C-G12-130-V-3AP4-40
	G $\frac{3}{4}$	1489943 VZWP-L-M22C-G34-250-1P4-40
		1489953 VZWP-L-M22C-G34-250-2AP4-40
		1489963 VZWP-L-M22C-G34-250-3AP4-40
		1489948 VZWP-L-M22C-G34-250-V-1P4-40
		1489958 VZWP-L-M22C-G34-250-V-2AP4-40
		1489968 VZWP-L-M22C-G34-250-V-3AP4-40
	G1	1489944 VZWP-L-M22C-G1-250-1P4-40
		1489954 VZWP-L-M22C-G1-250-2AP4-40
		1489964 VZWP-L-M22C-G1-250-3AP4-40
		1489949 VZWP-L-M22C-G1-250-V-1P4-40
		1489959 VZWP-L-M22C-G1-250-V-2AP4-40
		1489969 VZWP-L-M22C-G1-250-V-3AP4-40

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