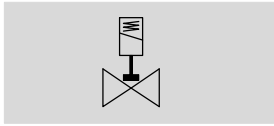


Solenoid valves VZWD, directly actuated

Technical data – Brass housing, nominal pressure PN 50

Function



- - Flow rate Kv
0.06 ... 0.16 m³/h



- - Connecting thread
G¹/₄, G¹/₈

General technical data		1.0	1.5	2.0	2.5
Nominal size (DN)					
Valve function		2/2-way, single solenoid, closed			
Design		Directly actuated poppet valve			
Type of mounting		In-line installation			
Actuation type		Electric			
Reset method		Mechanical spring			
Direction of flow		Non-reversible			
Type of control		Direct			
Manual override		None			
Mounting position		Any			
Sealing principle		Soft			
Max. viscosity	[mm ² /s]	22			
Protection class		IP65			

Operating and environmental conditions		1.0	1.5	2.0	2.5
Nominal size (DN)					
Standard nominal flow rate	[l/min]	60	95	140	170
Flow rate Kv	[m ³ /h]	0.06	0.09	0.13	0.16
Process valve nominal pressure (PN)		50			
Medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
		Inert gases			
		Mineral oil			
		Neutral liquids			
		Water			
		Further media upon request			
Pressure differential	[bar]	0			
Ambient temperature	[°C]	-10 ... +35 °C			
Temperature of medium	[°C]	-10 ... +80 °C			
Leak rate to EN 12266-1		A			
Corrosion resistance class CRC ¹⁾		1			

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).

Solenoid valves VZWD, directly actuated

FESTO

Technical data – Brass housing, nominal pressure PN 50

Electrical data			
Operating voltage		24 V DC	110 V AC 230 V AC
Electrical connection	Plug to EN 175301-803 type A, square design		
CE marking		–	73/23/EEC 73/23/EEC
Insulation class		H	F F
Duty cycle	[%]	100	
Permissible voltage fluctuations	[%]	±10	
Switching time on	[ms]	25	
Switching time off	[ms]	10	
Coil characteristics			
Direct current DC	[V]	24	– –
Alternating current AC	[V]	–	110 230
Power consumption	[W]	6.8	– –
Switching power	[VA]	–	10.5 10.5
Holding power	[VA]	–	8 7.6
	[Hz]	–	50, 60 50, 60

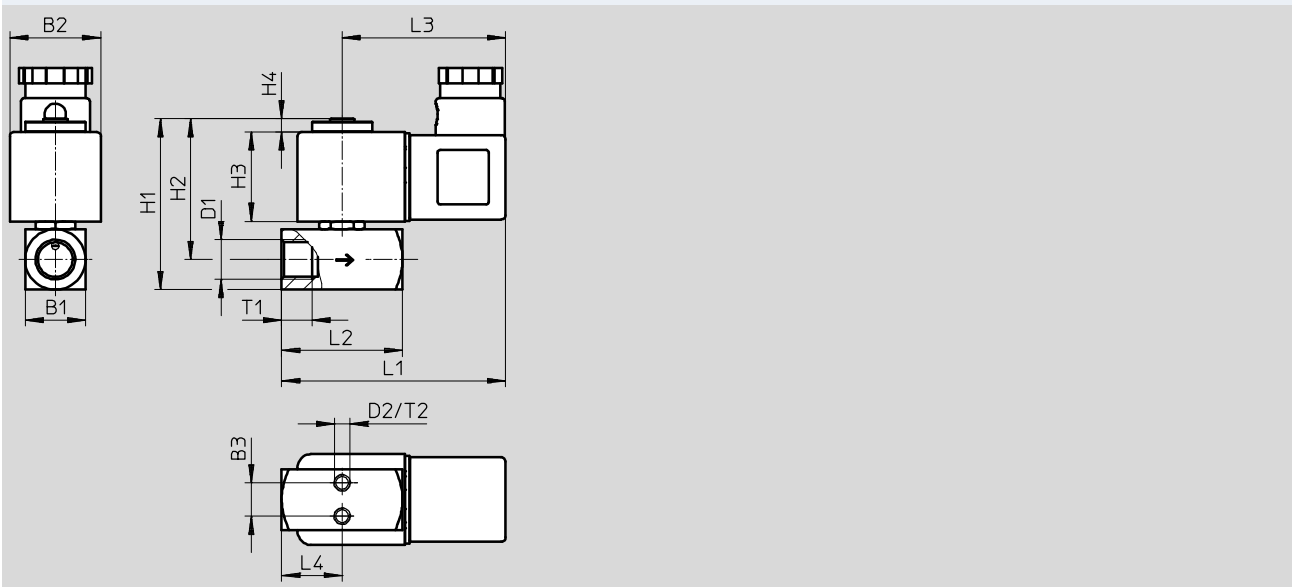
Materials		
Solenoid valves		Material number
Housing	High-alloy stainless steel	1.4305
	Brass	CW614N
Seals	FPM	
Note on materials	Contains PWIS (paint-wetting impairment substances)	
	RoHS-compliant	

Solenoid valves VZWD, directly actuated

Technical data – Brass housing, nominal pressure PN 50

Dimensions Download CAD data →

Milled brass housing



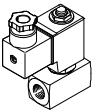
Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-G1/8-10-...-50	15	30	8	G1/8	M3	52	44	30	5	70	32	54	16	-	8	4.5
VZWD-...-G1/8-15-...-30																
VZWD-...-G1/8-20-...-15																
VZWD-...-G1/4-10-...-50	20	30	11	G1/4	M5	57	47	30	5	74	40	54	20	-	10	5.5
VZWD-...-G1/4-15-...-30																
VZWD-...-G1/4-20-...-15																
VZWD-...-G1/4-25-...-8																

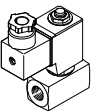
Solenoid valves VZWD, directly actuated

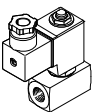
FESTO

Technical data – Brass housing, nominal pressure PN 50

★ Core product range

Ordering data							
	Process valve connection	Nominal size DN	Medium pressure ¹⁾ [bar]	Product weight [g]	Operating voltage	Brass housing	
						Part No.	Type
	G ¹ / ₈	1	0 ... 50	300	24 V DC	★ 1491825	VZWD-L-M22C-M-G18-10-V-1P4-50
		2	0 ... 15	300	24 V DC	★ 1491827	VZWD-L-M22C-M-G18-20-V-1P4-15

Ordering data							
	Process valve connection	Nominal size DN	Medium pressure ¹⁾ [bar]	Product weight [g]	Operating voltage	Brass housing	
						Part No.	Type
	G ¹ / ₄	1	0 ... 50	350	24 V DC	1491828	VZWD-L-M22C-M-G14-10-V-1P4-50
					110 V AC	1491906	VZWD-L-M22C-M-G14-10-V-2AP4-50
					230 V AC	1491984	VZWD-L-M22C-M-G14-10-V-3AP4-50
		1.5	0 ... 30	350	24 V DC	1491829	VZWD-L-M22C-M-G14-15-V-1P4-30
					110 V AC	1491907	VZWD-L-M22C-M-G14-15-V-2AP4-30
					230 V AC	1491985	VZWD-L-M22C-M-G14-15-V-3AP4-30
		2	0 ... 15	350	24 V DC	1491830	VZWD-L-M22C-M-G14-20-V-1P4-15
					110 V AC	1491908	VZWD-L-M22C-M-G14-20-V-2AP4-15
					230 V AC	1491986	VZWD-L-M22C-M-G14-20-V-3AP4-15
		2.5	0 ... 8	350	24 V DC	1491831	VZWD-L-M22C-M-G14-25-V-1P4-8
					110 V AC	1491909	VZWD-L-M22C-M-G14-25-V-2AP4-8
					230 V AC	1491987	VZWD-L-M22C-M-G14-25-V-3AP4-8

Ordering data							
	Process valve connection	Nominal size DN	Medium pressure ¹⁾ [bar]	Product weight [g]	Operating voltage	Brass housing	
						Part No.	Type
	G ¹ / ₈	1	0 ... 50	300	110 V AC	1491903	VZWD-L-M22C-M-G18-10-V-2AP4-50
					230 V AC	1491981	VZWD-L-M22C-M-G18-10-V-3AP4-50
		1.5	0 ... 30	300	24 V DC	1491826	VZWD-L-M22C-M-G18-15-V-1P4-30
					110 V AC	1491904	VZWD-L-M22C-M-G18-15-V-2AP4-30
					230 V AC	1491982	VZWD-L-M22C-M-G18-15-V-3AP4-30
		2	0 ... 15	300	110 V AC	1491905	VZWD-L-M22C-M-G18-20-V-2AP4-15
230 V AC	1491983				VZWD-L-M22C-M-G18-20-V-3AP4-15		

1) The valves are suitable for vacuum with Pabs > 100 mbar. Please ensure the direction of flow corresponds to the direction of the arrow.

Festo core product range

- ★ Ready for dispatch from the Festo factory in 24 hours
- ☆ Ready for dispatch in 5 days maximum from stock

