Solenoid valves VZWD, directly actuated

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Solenoid valves VZWD, directly actuated

Key features and overview

General

Directly actuated solenoid valves VZWD are mainly intended for applications with high pressure ranges and low flow rates. This type of valve switches the sealing element directly via the solenoid system. The seal generally has to lift away from the seat against the effective operating pressure using just the drive. A closing spring keeps the valve closed assisted by the pressure of the medium. The function is dependent on the seat size, the effective operating pressure and the magnetic force. The differentiation from force pilot operated solenoid valves (VZWF) lies in the flow rate.

General

- Connecting thread G¼, G⅛
- Flow rate Kv 0.06 ... 0.4 m^3/h

Areas of application

- Use in vacuum technology
- Venting gas and tank systems
- Safety shut-offs for burner controllers

Design

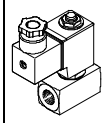
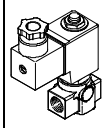
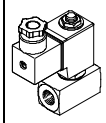
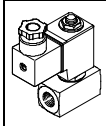
- Design insensitive to slight contamination of the media

Advantages

- Valves respond from 0 bar up to the max. operating pressure
- Excellent tightness

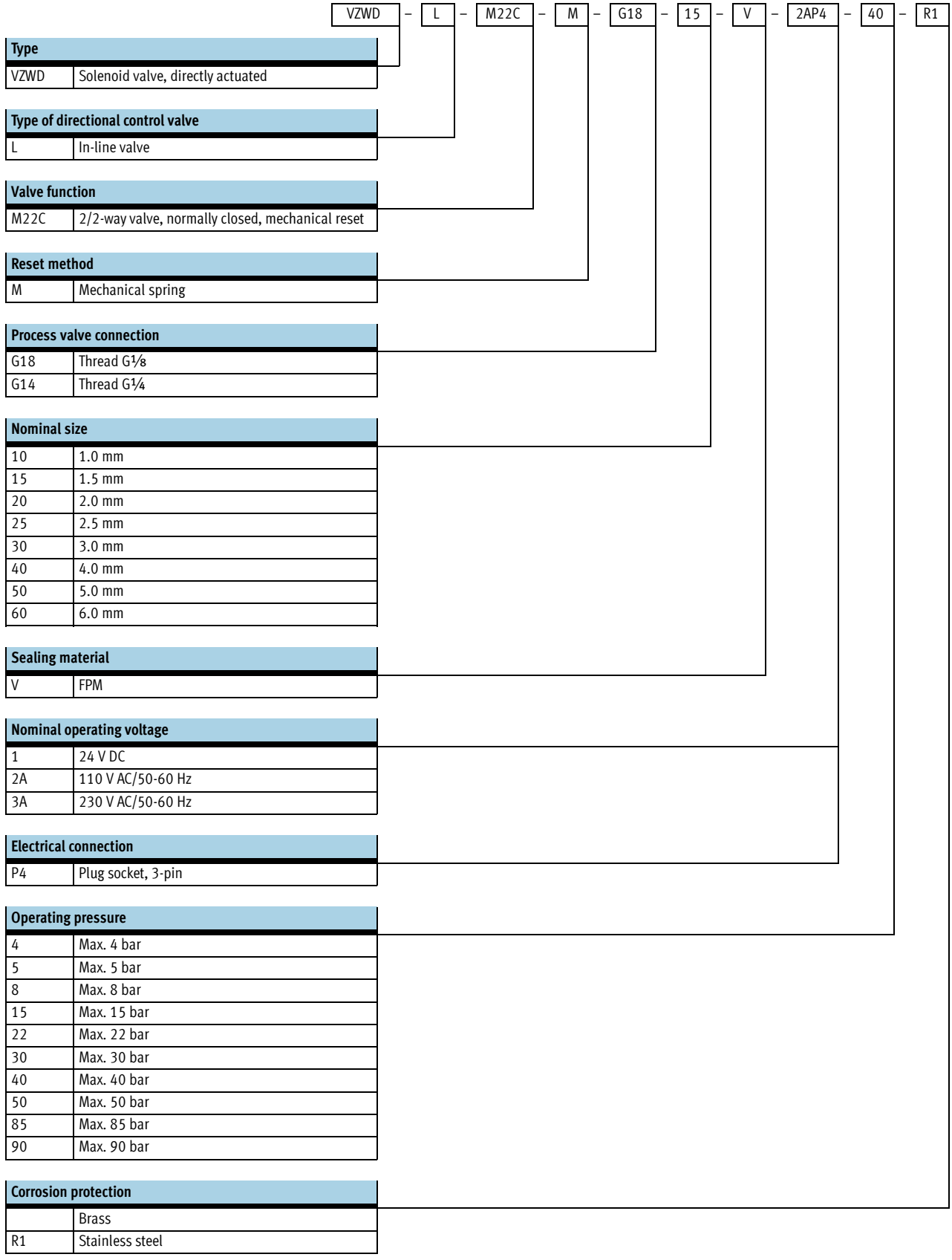
Solenoid valves VZWD, directly actuated

Key features and overview

Version	Type	Process valve connection	Nominal size (DN)	Operating pressure [bar]	→ Page/Internet
Brass housing					
	VZWD-L-...	G¼	1	0 ... 50	5
			1.5	0 ... 30	
			2	0 ... 15	
			2.5	0 ... 8	
		G⅛	1	0 ... 50	5
			1.5	0 ... 30	
			2	0 ... 15	
Brass housing					
	VZWD-L-...	G¼	1	0 ... 90	8
			1.5	0 ... 85	
			2	0 ... 40	
			2.5	0 ... 22	
			3	0 ... 15	
			4	0 ... 8	
			5	0 ... 5	
			6	0 ... 4	
		G⅛	1	0 ... 90	8
			1.5	0 ... 85	
			2	0 ... 40	
			2.5	0 ... 22	
			3	0 ... 15	
			4	0 ... 8	
			5	0 ... 5	
			6	0 ... 4	
Stainless steel housing					
	VZWD-L-...-R1	G¼	1	0 ... 90	13
			1.5	0 ... 85	
			2	0 ... 40	
			2.5	0 ... 22	
			3	0 ... 15	
			4	0 ... 8	
			5	0 ... 5	
			6	0 ... 4	
	VZWD-L-...-R1	G⅛	1	0 ... 90	13
			1.5	0 ... 85	
			2	0 ... 40	
			2.5	0 ... 22	
			3	0 ... 15	
			4	0 ... 8	
			5	0 ... 5	
			6	0 ... 4	

Solenoid valves VZWD, directly actuated

Type codes



Type	
VZWD	Solenoid valve, directly actuated

Type of directional control valve	
L	In-line valve

Valve function	
M22C	2/2-way valve, normally closed, mechanical reset

Reset method	
M	Mechanical spring

Process valve connection	
G18	Thread G1⁄8
G14	Thread G1⁄4

Nominal size	
10	1.0 mm
15	1.5 mm
20	2.0 mm
25	2.5 mm
30	3.0 mm
40	4.0 mm
50	5.0 mm
60	6.0 mm

Sealing material	
V	FPM

Nominal operating voltage	
1	24 V DC
2A	110 V AC/50-60 Hz
3A	230 V AC/50-60 Hz

Electrical connection	
P4	Plug socket, 3-pin

Operating pressure	
4	Max. 4 bar
5	Max. 5 bar
8	Max. 8 bar
15	Max. 15 bar
22	Max. 22 bar
30	Max. 30 bar
40	Max. 40 bar
50	Max. 50 bar
85	Max. 85 bar
90	Max. 90 bar

Corrosion protection	
	Brass
R1	Stainless steel

Solenoid valves VZWD, directly actuated

Technical data – Brass housing

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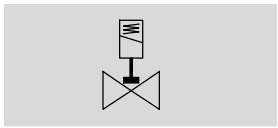
Function



- Flow rate Kv
  0.06 ... 0.16 m^3/h

- Connecting thread
  G¼, G⅛

General technical data					
Nominal size (DN)		1.0	1.5	2.0	2.5
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					
Nominal size (DN)		1.0	1.5	2.0	2.5
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			
Process valve operating 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 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.

Solenoid valves VZWD, directly actuated

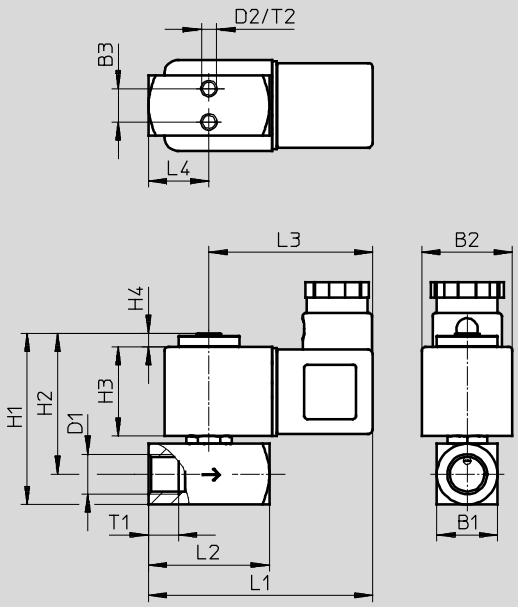
Technical data – Brass housing

Electrical data					
			VZWD- ... 1	VZWD- ... 2A	VZWD- ... 3A
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		
Coil characteristics	Direct current DC	[V]	24	–	–
	Alternating current AC	[V]	–	110	230
		[W]	6.8	–	–
	Switching power	[VA]	–	10.5	10.5
	Holding power	[VA]	–	8	7.6
		[Hz]	–	50, 60	50, 60
	Switching time on	[ms]	25		
	Switching time off	[ms]	10		

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

Dimensions Download CAD data ➔ **www.festo.com/en/engineering**

Milled brass housing



Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-G⅛-10-...-50	15	30	8	G⅛	M5	52	44	30	5	70	32	54	16	–	8	5
VZWD-...-G⅛-15-...-30																
VZWD-...-G⅛-20-...-15																
VZWD-...-G¼-10-...-50	20	30	11	G¼	M5	57	47	30	5	74	40	54	20	–	10	5
VZWD-...-G¼-15-...-30																
VZWD-...-G¼-20-...-15																
VZWD-...-G¼-25-...-8																

Solenoid valves VZWD, directly actuated

Technical data – Brass housing

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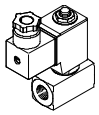
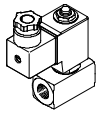
Ordering data						
	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Brass housing Part No.	Type
	G¼	1	0 … 50	350	**1491906**	**VZWD-L-M22C-M-G14-10-V-2AP4-50**
					1491984	**VZWD-L-M22C-M-G14-10-V-3AP4-50**
					1491828	**VZWD-L-M22C-M-G14-10-V-1P4-50**
		1.5	0 … 30	350	**1491907**	**VZWD-L-M22C-M-G14-15-V-2AP4-30**
					1491985	**VZWD-L-M22C-M-G14-15-V-3AP4-30**
					1491829	**VZWD-L-M22C-M-G14-15-V-1P4-30**
		2	0 … 15	350	**1491908**	**VZWD-L-M22C-M-G14-20-V-2AP4-15**
					1491986	**VZWD-L-M22C-M-G14-20-V-3AP4-15**
					1491830	**VZWD-L-M22C-M-G14-20-V-1P4-15**
		2.5	0 … 8	350	**1491909**	**VZWD-L-M22C-M-G14-25-V-2AP4-8**
					1491987	**VZWD-L-M22C-M-G14-25-V-3AP4-8**
					1491831	**VZWD-L-M22C-M-G14-25-V-1P4-8**

Ordering data						
	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Brass housing Part No.	Type
	G⅛	1	0 … 50	300	**1491903**	**VZWD-L-M22C-M-G18-10-V-2AP4-50**
					1491981	**VZWD-L-M22C-M-G18-10-V-3AP4-50**
					1491825	**VZWD-L-M22C-M-G18-10-V-1P4-50**
		1.5	0 … 30	300	**1491904**	**VZWD-L-M22C-M-G18-15-V-2AP4-30**
					1491982	**VZWD-L-M22C-M-G18-15-V-3AP4-30**
					1491826	**VZWD-L-M22C-M-G18-15-V-1P4-30**
		2	0 … 15	300	**1491905**	**VZWD-L-M22C-M-G18-20-V-2AP4-15**
					1491983	**VZWD-L-M22C-M-G18-20-V-3AP4-15**
					1491827	**VZWD-L-M22C-M-G18-20-V-1P4-15**

Solenoid valves VZWD, directly actuated

Technical data – Brass housing

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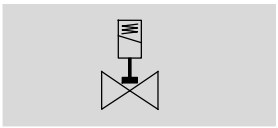
Function



- Flow rate Kv
  0.06 ... 0.4 m^3/h

  Nominal size (DN)
  1.0 ... 6.0 mm

- Connecting thread
  G¼, G⅛

General technical data									
Nominal size (DN)		1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0
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									
Nominal size (DN)		1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0
Standard nominal flow rate	[l/min]	60	95	140	170	210	310	375	430
Flow rate Kv	[m^3/h]	0.06	0.09	0.13	0.16	0.2	0.3	0.35	0.4
Process valve nominal pressure (PN)		100							
Pressure differential	[bar]	0							
Process valve operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]							
		Inert gases							
		Mineral oil							
		Neutral liquids							
		Water							
		Further media upon request							
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 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.

Solenoid valves VZWD, directly actuated

Technical data – Brass housing

Electrical data					
			VZWD- ... 1	VZWD- ... 2A	VZWD- ... 3A
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		
Coil characteristics	Direct current DC	[V]	24	–	–
	Alternating current AC	[V]	–	110	230
		[W]	11	–	–
	Switching power	[VA]	–	19	18
	Holding power	[VA]	–	16	15
		[Hz]	–	50, 60	50, 60
	Switching time on	[ms]	20		
	Switching time off	[ms]	18		

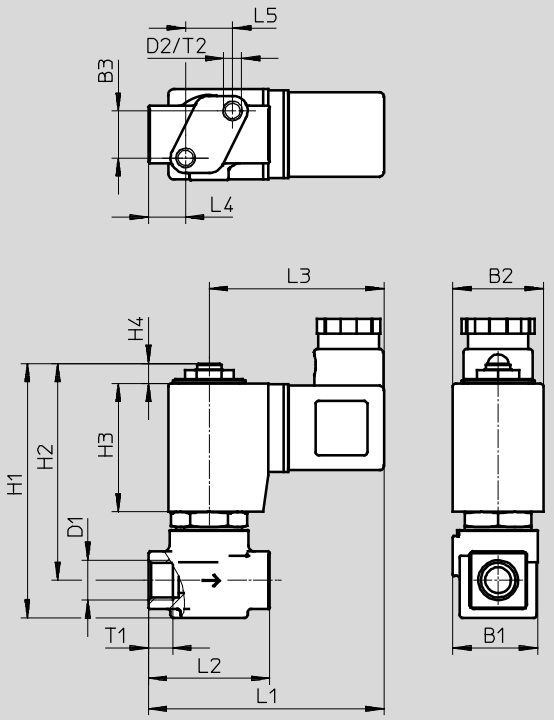
Materials			
Solenoid valves			Material number
1	Housing	High-alloy stainless steel	1.4305
		Brass	CW614N
2	Seals	FPM	
–	Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	

Solenoid valves VZWD, directly actuated

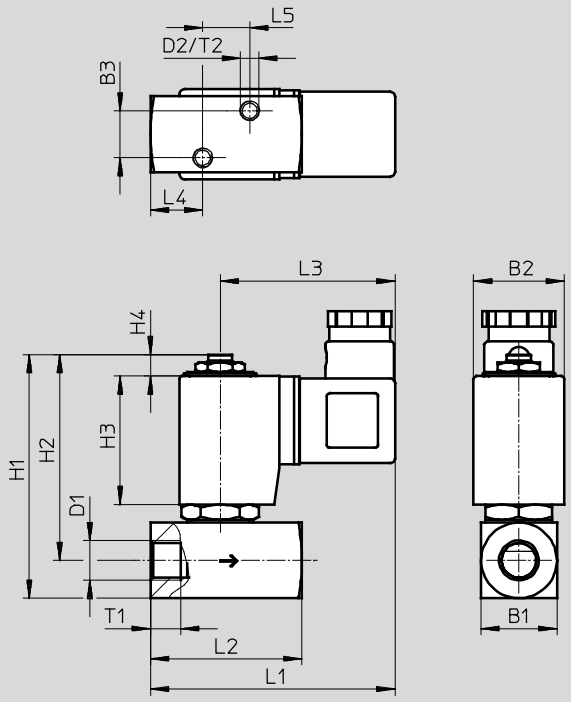
Technical data – Brass housing

Dimensions Download CAD data ➔ **www.festo.com/en/engineering**

Die-cast brass housing



Milled brass housing



Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-G⅛-10-...-90	28	30	15.5	G⅛	M6	84	72	42.5	6.5	78	40	58	12	15.5	8	6
VZWD-...-G⅛-15-...-85																
VZWD-...-G⅛-20-...-40																
VZWD-...-G⅛-25-...-22																
VZWD-...-G⅛-30-...-15																
VZWD-...-G⅛-40-...-8																
VZWD-...-G¼-10-...-90	28	30	15.5	G¼	M6	84	72	42.5	6.5	78	40	58	12	15.5	10	6
VZWD-...-G¼-15-...-85																
VZWD-...-G¼-20-...-40																
VZWD-...-G¼-25-...-22																
VZWD-...-G¼-30-...-15																
VZWD-...-G¼-40-...-8																
VZWD-...-G⅛-50-...-5	25	30	15.5	G⅛	M6	81	68	42.5	7	78	40	58	12	15.5	8	6
VZWD-...-G⅛-60-...-4																
VZWD-...-G¼-50-...-5	25	30	15.5	G¼	M6	81	68	42.5	7	85	50	58	17	15.5	10	6
VZWD-...-G¼-60-...-4																

Solenoid valves VZWD, directly actuated

Technical data – Brass housing

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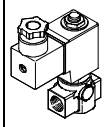
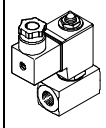
Ordering data

	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Brass housing Part No.	Type
	G¼	1	0 … 90	550	**1491918**	**VZWD-L-M22C-M-G14-10-V-2AP4-90**
					1491996	**VZWD-L-M22C-M-G14-10-V-3AP4-90**
					1491840	**VZWD-L-M22C-M-G14-10-V-1P4-90**
		1.5	0 … 85	550	**1491919**	**VZWD-L-M22C-M-G14-15-V-2AP4-85**
					1491997	**VZWD-L-M22C-M-G14-15-V-3AP4-85**
					1491841	**VZWD-L-M22C-M-G14-15-V-1P4-85**
		2	0 … 40	550	**1491920**	**VZWD-L-M22C-M-G14-20-V-2AP4-40**
					1491998	**VZWD-L-M22C-M-G14-20-V-3AP4-40**
					1491842	**VZWD-L-M22C-M-G14-20-V-1P4-40**
		2.5	0 … 22	550	**1491921**	**VZWD-L-M22C-M-G14-25-V-2AP4-22**
					1491999	**VZWD-L-M22C-M-G14-25-V-3AP4-22**
					1491843	**VZWD-L-M22C-M-G14-25-V-1P4-22**
		3	0 … 15	550	**1491922**	**VZWD-L-M22C-M-G14-30-V-2AP4-15**
					1492000	**VZWD-L-M22C-M-G14-30-V-3AP4-15**
					1491844	**VZWD-L-M22C-M-G14-30-V-1P4-15**
		4	0 … 8	550	**1491923**	**VZWD-L-M22C-M-G14-40-V-2AP4-8**
					1492001	**VZWD-L-M22C-M-G14-40-V-2AP4-8**
					1491845	**VZWD-L-M22C-M-G14-40-V-1P4-8**

Ordering data

	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Brass housing Part No.	Type
	G¼	5	0 … 5	600	**1491924**	**VZWD-L-M22C-M-G14-50-V-2AP4-5**
					1492002	**VZWD-L-M22C-M-G14-50-V-3AP4-5**
					1491846	**VZWD-L-M22C-M-G14-50-V-1P4-5**
		6	0 … 4	600	**1491925**	**VZWD-L-M22C-M-G14-60-V-2AP4-4**
					1492003	**VZWD-L-M22C-M-G14-60-V-3AP4-4**
					1491847	**VZWD-L-M22C-M-G14-60-V-1P4-4**

Solenoid valves VZWD, directly actuated

Technical data – Brass housing

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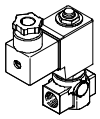
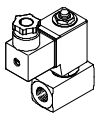
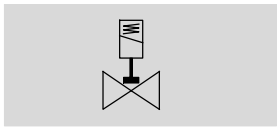
Ordering data						
	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Brass housing Part No.	Type
	G1/8	1	0 ... 90	550	**1491910**	**VZWD-L-M22C-M-G18-10-V-2AP4-90**
					1491988	**VZWD-L-M22C-M-G18-10-V-3AP4-90**
					1491832	**VZWD-L-M22C-M-G18-10-V-1P4-90**
		1.5	0 ... 85	550	**1491911**	**VZWD-L-M22C-M-G18-15-V-2AP4-85**
					1491989	**VZWD-L-M22C-M-G18-15-V-3AP4-85**
					1491833	**VZWD-L-M22C-M-G18-15-V-1P4-85**
		2	0 ... 40	550	**1491912**	**VZWD-L-M22C-M-G18-20-V-2AP4-40**
					1491990	**VZWD-L-M22C-M-G18-20-V-3AP4-40**
					1491834	**VZWD-L-M22C-M-G18-20-V-1P4-40**
		2.5	0 ... 22	550	**1491913**	**VZWD-L-M22C-M-G18-25-V-2AP4-22**
					1491991	**VZWD-L-M22C-M-G18-25-V-3AP4-22**
					1491835	**VZWD-L-M22C-M-G18-25-V-1P4-22**
		3	0 ... 15	550	**1491914**	**VZWD-L-M22C-M-G18-30-V-2AP4-15**
					1491992	**VZWD-L-M22C-M-G18-30-V-3AP4-15**
					1491836	**VZWD-L-M22C-M-G18-30-V-1P4-15**
		4	0 ... 8	550	**1491915**	**VZWD-L-M22C-M-G18-40-V-2AP4-8**
					1491993	**VZWD-L-M22C-M-G18-40-V-3AP4-8**
					1491837	**VZWD-L-M22C-M-G18-40-V-1P4-8**

Ordering data						
	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Brass housing Part No.	Type
	G1/8	5	0 ... 5	600	**1491916**	**VZWD-L-M22C-M-G18-50-V-2AP4-5**
					1491994	**VZWD-L-M22C-M-G18-50-V-3AP4-5**
					1491838	**VZWD-L-M22C-M-G18-50-V-1P4-5**
		6	0 ... 4	600	**1491917**	**VZWD-L-M22C-M-G18-60-V-2AP4-4**
					1491995	**VZWD-L-M22C-M-G18-60-V-3AP4-4**
					1491839	**VZWD-L-M22C-M-G18-60-V-1P4-4**

Solenoid valves VZWD, directly actuated

Technical data – Stainless steel housing

Function



Flow rate Kv
0.06 ... 0.4 m^3/h

Connecting thread
G¼, G⅛

General technical data									
Nominal size (DN)		1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0
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							
Type of control		Direct							
Manual override		None							
Mounting position		Any							
Sealing principle		Soft							
Direction of flow		Non-reversible							
Max. viscosity	[mm^2/s]	22							
Protection class		IP65							

Operating and environmental conditions									
Nominal size (DN)		1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0
Standard nominal flow rate	[l/min]	60	95	140	170	210	310	375	430
Flow rate Kv	[m^3/h]	0.06	0.09	0.13	0.16	0.2	0.3	0.35	0.4
Process valve nominal pressure (PN)		100							
Process valve operating 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)]		3							

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

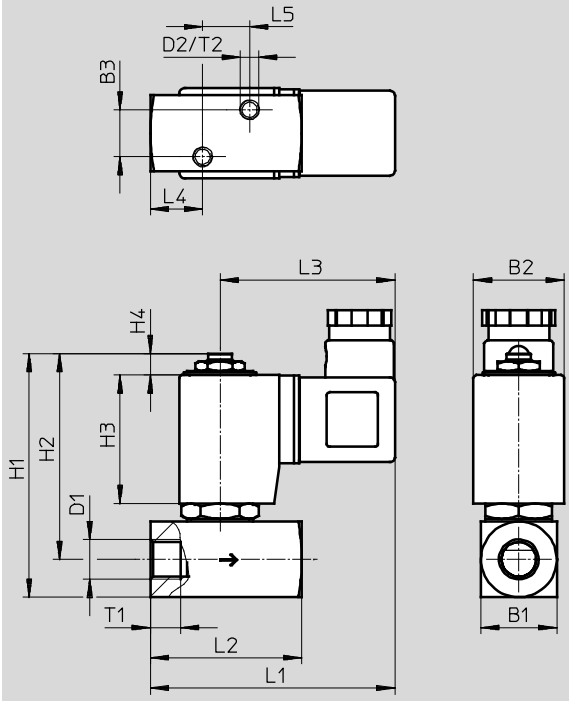
Solenoid valves VZWD, directly actuated

Technical data – Stainless steel housing

Electrical data					
			VZWD- ... 1	VZWD- ... 2A	VZWD- ... 3A
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		
Coil characteristics	Direct current DC	[V]	24	–	–
	Alternating current AC	[V]	–	110	230
		[W]	11	–	–
	Switching power	[VA]	–	10.5	10.5
	Holding power	[VA]	–	8	7.6
		[Hz]	–	50, 60	50, 60
	Switching time on	[ms]	20		
	Switching time off	[ms]	18		

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

Dimensions Download CAD data ➔ **www.festo.com/en/engineering**



Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-G⅛-50-...-5	25	30	15.5	G⅛	M6	81	68	42.5	7	78	40	58	12	15.5	8	6
VZWD-...-G⅛-60-...-4																
VZWD-...-G¼-50-...-5	25	30	15.5	G¼	M6	81	68	42.5	7	85	50	58	17	15.5	10	6
VZWD-...-G¼-60-...-4																

Solenoid valves VZWD, directly actuated

Technical data – Stainless steel housing

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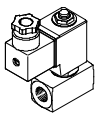
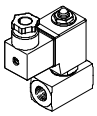
Ordering data – Solenoid valve VZWD						
	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Stainless steel casting housing Part No.	Type
	G¼	1	0 … 90	650	**1491934**	**VZWD-L-M22C-M-G14-10-V-2AP4-90-R1**
					1492012	**VZWD-L-M22C-M-G14-10-V-3AP4-90-R1**
					1491856	**VZWD-L-M22C-M-G14-10-V-1P4-90-R1**
		1.5	0 … 85	650	**1491935**	**VZWD-L-M22C-M-G14-15-V-2AP4-85-R1**
					1492013	**VZWD-L-M22C-M-G14-15-V-3AP4-85-R1**
					1491857	**VZWD-L-M22C-M-G14-10-V-1P4-90-R1**
		2	0 … 40	650	**1491936**	**VZWD-L-M22C-M-G14-20-V-2AP4-40-R1**
					1492014	**VZWD-L-M22C-M-G14-20-V-3AP4-40-R1**
					1491858	**VZWD-L-M22C-M-G14-20-V-1P4-40-R1**
		2.5	0 … 22	650	**1491937**	**VZWD-L-M22C-M-G14-25-V-2AP4-22-R1**
					1492015	**VZWD-L-M22C-M-G14-25-V-3AP4-22-R1**
					1491859	**VZWD-L-M22C-M-G14-25-V-1P4-22-R1**
		3	0 … 15	650	**1491938**	**VZWD-L-M22C-M-G14-30-V-2AP4-15-R1**
					1492016	**VZWD-L-M22C-M-G14-30-V-3AP4-15-R1**
					1491860	**VZWD-L-M22C-M-G14-30-V-1P4-15-R1**
		4	0 … 8	650	**1491939**	**VZWD-L-M22C-M-G14-40-V-2AP4-8-R1**
					1492017	**VZWD-L-M22C-M-G14-40-V-3AP4-8-R1**
					1491861	**VZWD-L-M22C-M-G14-40-V-1P4-8-R1**
		5	0 … 5	650	**1491940**	**VZWD-L-M22C-M-G14-50-V-2AP4-5-R1**
					1492018	**VZWD-L-M22C-M-G14-50-V-3AP4-5-R1**
					1491862	**VZWD-L-M22C-M-G14-50-V-1P4-5-R1**
		6	0 … 4	650	**1491941**	**VZWD-L-M22C-M-G14-60-V-2AP4-4-R1**
					1492019	**VZWD-L-M22C-M-G14-60-V-3AP4-4-R1**
					1491863	**VZWD-L-M22C-M-G14-60-V-1P4-4-R1**

Solenoid valves VZWD, directly actuated

Technical data – Stainless steel housing

Ordering data – Solenoid valve VZWD						
	Process valve connection	Nominal size DN	Operating pressure [bar]	Product weight [g]	Stainless steel casting housing Part No.	Type
	G1/8	1	0 … 90	500	**1491926**	**VZWD-L-M22C-M-G18-10-V-2AP4-90-R1**
					1492004	**VZWD-L-M22C-M-G18-10-V-3AP4-90-R1**
					1491848	**VZWD-L-M22C-M-G18-10-V-1P4-90-R1**
		1.5	0 … 85	500	**1491927**	**VZWD-L-M22C-M-G18-15-V-2AP4-85-R1**
					1492005	**VZWD-L-M22C-M-G18-15-V-3AP4-85-R1**
					1491849	**VZWD-L-M22C-M-G18-15-V-1P4-85-R1**
		2	0 … 40	500	**1491928**	**VZWD-L-M22C-M-G18-20-V-2AP4-40-R1**
					1492006	**VZWD-L-M22C-M-G18-20-V-3AP4-40-R1**
					1491850	**VZWD-L-M22C-M-G18-20-V-1P4-40-R1**
		2.5	0 … 22	500	**1491929**	**VZWD-L-M22C-M-G18-25-V-2AP4-22-R1**
					1492007	**VZWD-L-M22C-M-G18-25-V-3AP4-22-R1**
					1491851	**VZWD-L-M22C-M-G18-25-V-1P4-22-R1**
		3	0 … 15	500	**1491930**	**VZWD-L-M22C-M-G18-30-V-2AP4-15-R1**
					1492008	**VZWD-L-M22C-M-G18-30-V-3AP4-15-R1**
					1491852	**VZWD-L-M22C-M-G18-30-V-1P4-15-R1**
		4	0 … 8	500	**1491931**	**VZWD-L-M22C-M-G18-40-V-2AP4-8-R1**
					1492009	**VZWD-L-M22C-M-G18-40-V-3AP4-8-R1**
					1491853	**VZWD-L-M22C-M-G18-40-V-1P4-8-R1**
		5	0 … 5	500	**1491932**	**VZWD-L-M22C-M-G18-50-V-2AP4-5-R1**
					1492010	**VZWD-L-M22C-M-G18-50-V-3AP4-5-R1**
					1491854	**VZWD-L-M22C-M-G18-50-V-1P4-5-R1**
		6	0 … 4	500	**1491933**	**VZWD-L-M22C-M-G18-60-V-2AP4-4-R1**
					1492011	**VZWD-L-M22C-M-G18-60-V-3AP4-4-R1**
					1491855	**VZWD-L-M22C-M-G18-60-V-1P4-4-R1**