

Solenoid valves VZWD, directly actuated, NPT

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Key features and overview

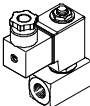
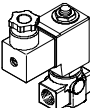
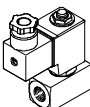
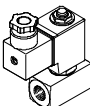
General			
Directly actuated solenoid valves VZWD are mainly intended for applications with high pressure ranges and low flow rates. This type of valve switches the sealing	element directly via the solenoid system. The seal generally has to lift away from the seat against the effective operating pressure 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 difference with force pilot operated solenoid valves (VZWF) lies in the flow rate.

General	Areas of application	Design	Advantages
-  - Connecting thread N1/4, N1/8 -  - Flow rate Kv 0.06 ... 0.4 m³/h	• Use in vacuum technology • Venting gas and tank systems • Safety shut-offs for burner controllers	• Design insensitive to slight contamination of the media	• Valves switch from 0 bar up to the max. operating pressure • Excellent tightness

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Key features and overview

Version	Type	Process valve connection	Nominal size (DN)	Operating pressure [bar]	→ Page/Internet		
Brass housing							
	VZWD-L-...	NPT1/4	1	0 ... 50	5		
			1.5	0 ... 30			
			2	0 ... 15			
			2.5	0 ... 8			
		NPT1/8	1	0 ... 50	5		
			1.5	0 ... 30			
			2	0 ... 15			
		Brass housing					
			VZWD-L-...	NPT1/4	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						
NPT1/8	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	NPT1/4	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	NPT1/8	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			

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Type codes

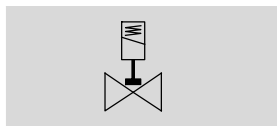
		VZWD	-	L	-	M22C	-	M	-	N18	-	15	-	V	-	2AP4	-	40	-	R1																			
Type																																							
VZWD	Solenoid valve, directly actuated																																						
Type of directional control valve																																							
L	In-line valve																																						
Valve function																																							
M22C	2/2-way valve, normally closed, mechanical reset																																						
Reset method																																							
M	Mechanical spring																																						
Process valve connection																																							
N18	NPT $\frac{1}{8}$																																						
N14	NPT $\frac{1}{4}$																																						
Nominal size (DN)																																							
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																																						

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Technical data – Brass housing

Function



Flow rate Kv
0.06 ... 0.16 m³/h

Connecting thread
N¼, N½



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 [mm²/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 [m³/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			
Differential pressure [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.

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Technical data – Brass housing

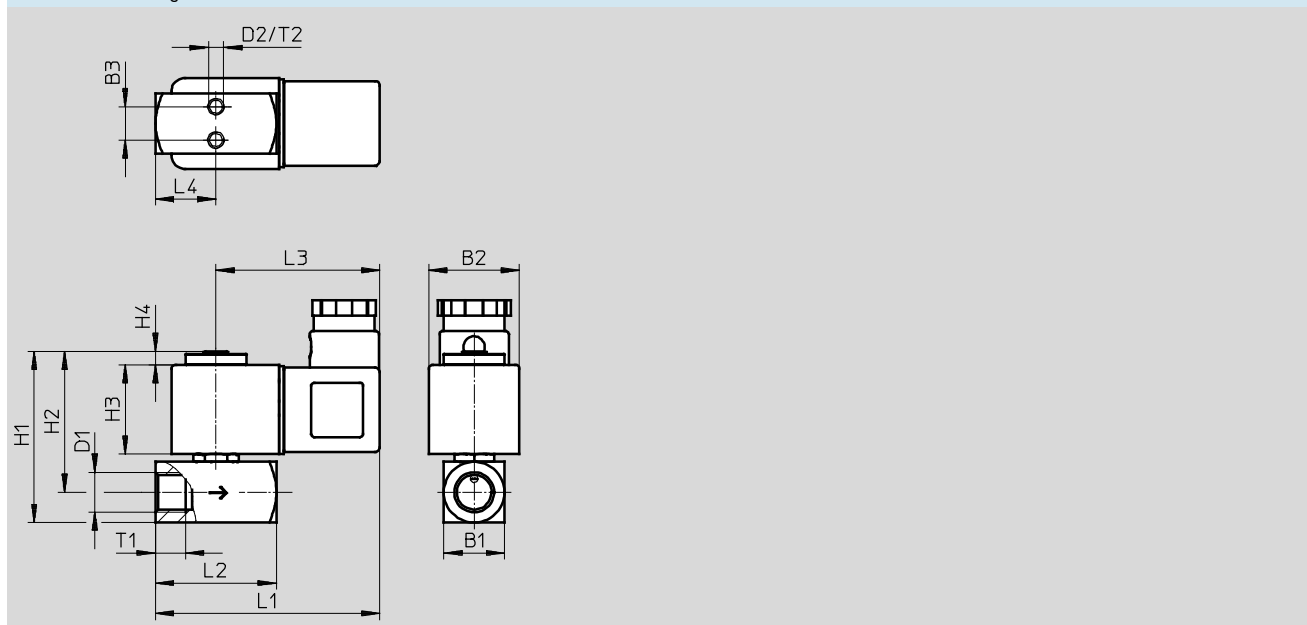
Electrical data					
			VZWD- ... 1	VZWD- ... 2A	VZWD- ... 3A
Electrical connection			Plug to EN 175301-803 type A, square design		
CE marking			–	73/23/EEC	73/23/EEC
Insulation class			H	F	F
Duty cycle		[%]	100		
Permissible voltage fluctuations		[%]	±10		
Coil characteristics	Direct current DC	[V]	24	–	–
	Alternating current AC	[V]	–	110	230
		[W]	6.8	–	–
	Pick-up 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

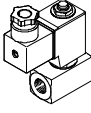


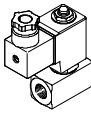
Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N1/8-10-...-50	15	30	8	NPT1/8	M5	52	44	30	5	70	32	54	16	–	8	5
VZWD-...-N1/8-15-...-30																
VZWD-...-N1/8-20-...-15																
VZWD-...-N1/4-10-...-50	20	30	11	NPT1/4	M5	57	47	30	5	74	40	54	20	–	10	5
VZWD-...-N1/4-15-...-30																
VZWD-...-N1/4-20-...-15																
VZWD-...-N1/4-25-...-8																

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Technical data – Brass housing

Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	N $\frac{1}{4}$	1	0 ... 50	350	1491945 VZWD-L-M22C-M-N14-10-V-2AP4-50
					1492023 VZWD-L-M22C-M-N14-10-V-3AP4-50
					1491867 VZWD-L-M22C-M-N14-10-V-1P4-50
		1.5	0 ... 30	350	1491946 VZWD-L-M22C-M-N14-15-V-2AP4-30
					1492024 VZWD-L-M22C-M-N14-15-V-3AP4-30
					1491868 VZWD-L-M22C-M-N14-15-V-1P4-30
		2	0 ... 15	350	1491947 VZWD-L-M22C-M-N14-20-V-2AP4-15
					1492025 VZWD-L-M22C-M-N14-20-V-3AP4-15
					1491869 VZWD-L-M22C-M-N14-20-V-1P4-15
		2.5	0 ... 8	350	1491948 VZWD-L-M22C-M-N14-25-V-2AP4-8
					1492026 VZWD-L-M22C-M-N14-25-V-3AP4-8
					1491870 VZWD-L-M22C-M-N14-25-V-1P4-8

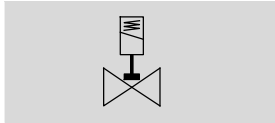
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	N $\frac{1}{8}$	1	0 ... 50	300	1491942 VZWD-L-M22C-M-N18-10-V-2AP4-50
					1492020 VZWD-L-M22C-M-N18-10-V-3AP4-50
					1491864 VZWD-L-M22C-M-N18-10-V-1P4-50
		1.5	0 ... 30	300	1491943 VZWD-L-M22C-M-N18-15-V-2AP4-30
					1492021 VZWD-L-M22C-M-N18-15-V-3AP4-30
					1491865 VZWD-L-M22C-M-N18-15-V-1P4-30
		2	0 ... 15	300	1491944 VZWD-L-M22C-M-N18-20-V-2AP4-15
					1492022 VZWD-L-M22C-M-N18-20-V-3AP4-15
					1491866 VZWD-L-M22C-M-N18-20-V-1P4-15

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Technical data – Brass housing

Function



Flow rate Kv
0.06 ... 0.4 m³/h

Nominal size (DN)
1.0 ... 6.0 mm



Connecting thread
N¹/₄, N¹/₈



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 [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							
Differential pressure [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.

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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	–	–
	Pick-up 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, NPT

Technical data – Brass housing

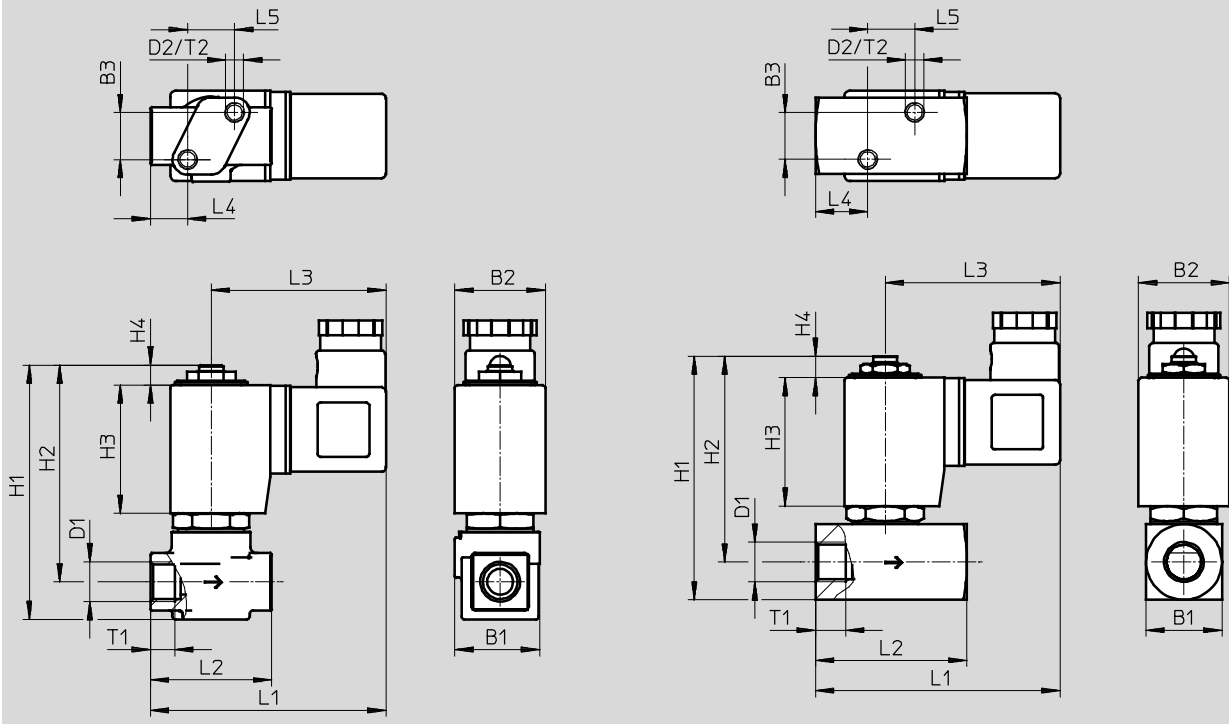
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Dimensions

Download CAD data → www.festo.com/en/engineering

Die-cast brass housing

Milled brass housing

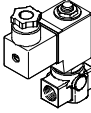


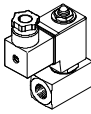
Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N $\frac{1}{8}$ -10-...-90	28	30	15.5	NPT $\frac{1}{8}$	M6	84	72	42.5	6.5	78	40	58	12	15.5	8	6
VZWD-...-N $\frac{1}{8}$ -15-...-85																
VZWD-...-N $\frac{1}{8}$ -20-...-40																
VZWD-...-N $\frac{1}{8}$ -25-...-22																
VZWD-...-N $\frac{1}{8}$ -30-...-15																
VZWD-...-N $\frac{1}{8}$ -40-...-8																
VZWD-...-N $\frac{1}{4}$ -10-...-90	28	30	15.5	NPT $\frac{1}{4}$	M6	84	72	42.5	6.5	78	40	58	12	15.5	10	6
VZWD-...-N $\frac{1}{4}$ -15-...-85																
VZWD-...-N $\frac{1}{4}$ -20-...-40																
VZWD-...-N $\frac{1}{4}$ -25-...-22																
VZWD-...-N $\frac{1}{4}$ -30-...-15																
VZWD-...-N $\frac{1}{4}$ -40-...-8																
VZWD-...-N $\frac{1}{8}$ -50-...-5	25	30	15.5	NPT $\frac{1}{8}$	M6	81	68	42.5	7	78	40	58	12	15.5	8	6
VZWD-...-N $\frac{1}{8}$ -60-...-4	25	30	15.5	NPT $\frac{1}{4}$	M6	81	68	42.5	7	85	50	58	17	15.5	10	6
VZWD-...-N $\frac{1}{4}$ -50-...-5																
VZWD-...-N $\frac{1}{4}$ -60-...-4																

Solenoid valves VZWD, directly actuated, NPT

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Technical data – Brass housing

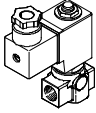
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{4}$	1	0 ... 90	550	1491957 VZWD-L-M22C-M-N14-10-V-2AP4-90
					1492040 VZWD-L-M22C-M-N14-10-V-3AP4-90
					1491879 VZWD-L-M22C-M-N14-10-V-1P4-90
		1.5	0 ... 85	550	1491958 VZWD-L-M22C-M-N14-15-V-2AP4-85
					1492041 VZWD-L-M22C-M-N14-15-V-3AP4-85
					1491880 VZWD-L-M22C-M-N14-15-V-1P4-85
		2	0 ... 40	550	1491959 VZWD-L-M22C-M-N14-20-V-2AP4-40
					1492042 VZWD-L-M22C-M-N14-20-V-3AP4-40
					1491881 VZWD-L-M22C-M-N14-20-V-1P4-40
		2.5	0 ... 22	550	1491960 VZWD-L-M22C-M-N14-25-V-2AP4-22
					1492043 VZWD-L-M22C-M-N14-25-V-3AP4-22
					1491882 VZWD-L-M22C-M-N14-25-V-1P4-22
		3	0 ... 15	550	1491961 VZWD-L-M22C-M-N14-30-V-2AP4-15
					1492044 VZWD-L-M22C-M-N14-30-V-3AP4-15
					1491883 VZWD-L-M22C-M-N14-30-V-1P4-15
		4	0 ... 8	550	1491962 VZWD-L-M22C-M-N14-40-V-2AP4-8
					1492045 VZWD-L-M22C-M-N14-40-V-3AP4-8
					1491884 VZWD-L-M22C-M-N14-40-V-1P4-8

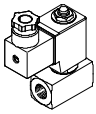
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{4}$	5	0 ... 5	600	1491885 VZWD-L-M22C-M-N14-50-V-1P4-5
					1491963 VZWD-L-M22C-M-N14-50-V-2AP4-5
					1492046 VZWD-L-M22C-M-N14-50-V-3AP4-5
		6	0 ... 4	600	1491886 VZWD-L-M22C-M-N14-60-V-1P4-4
					1491964 VZWD-L-M22C-M-N14-60-V-2AP4-4
					1492047 VZWD-L-M22C-M-N14-60-V-3AP4-4

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Technical data – Brass housing

Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{8}$	1	0 ... 90	550	1491949 VZWD-L-M22C-M-N18-10-V-2AP4-90
					1492027 VZWD-L-M22C-M-N18-10-V-3AP4-90
					1491871 VZWD-L-M22C-M-N18-10-V-1P4-90
		1.5	0 ... 85	550	1491950 VZWD-L-M22C-M-N18-15-V-2AP4-85
					1492028 VZWD-L-M22C-M-N18-15-V-3AP4-85
					1491872 VZWD-L-M22C-M-N18-15-V-1P4-85
		2	0 ... 40	550	1491951 VZWD-L-M22C-M-N18-20-V-2AP4-40
					1492029 VZWD-L-M22C-M-N18-20-V-3AP4-40
					1491873 VZWD-L-M22C-M-N18-20-V-1P4-40
		2.5	0 ... 22	550	1491952 VZWD-L-M22C-M-N18-25-V-2AP4-22
					1492030 VZWD-L-M22C-M-N18-25-V-3AP4-22
					1491874 VZWD-L-M22C-M-N18-25-V-1P4-22
		3	0 ... 15	550	1491953 VZWD-L-M22C-M-N18-30-V-2AP4-15
					1492031 VZWD-L-M22C-M-N18-30-V-3AP4-15
					1491875 VZWD-L-M22C-M-N18-30-V-1P4-15
		4	0 ... 8	550	1491954 VZWD-L-M22C-M-N18-40-V-2AP4-8
					1492032 VZWD-L-M22C-M-N18-40-V-3AP4-8
					1491876 VZWD-L-M22C-M-N18-40-V-1P4-8

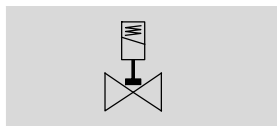
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{8}$	5	0 ... 5	600	1491877 VZWD-L-M22C-M-N18-50-V-1P4-5
					1491955 VZWD-L-M22C-M-N18-50-V-2AP4-5
					1492033 VZWD-L-M22C-M-N18-50-V-3AP4-5
		6	0 ... 4	600	1491878 VZWD-L-M22C-M-N18-60-V-1P4-4
					1491956 VZWD-L-M22C-M-N18-60-V-2AP4-4
					1492034 VZWD-L-M22C-M-N18-60-V-3AP4-4

Solenoid valves VZWD, directly actuated, NPT

FESTO

Technical data – Stainless steel housing

Function



-  - Flow rate Kv
0.06 ... 0.4 m³/h

-  - Connecting thread
N $\frac{1}{4}$, N $\frac{1}{8}$



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 [mm²/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 [m³/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							
Differential pressure [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, NPT

FESTO

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	–	–
	Pick-up 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

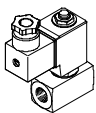
[Download CAD data → www.festo.com/en/engineering](http://www.festo.com/en/engineering)

Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N $\frac{1}{8}$ -50-...-5	25	30	15.5	NPT $\frac{1}{8}$	M6	81	68	42.5	7	78	40	58	12	15.5	8	6
VZWD-...-N $\frac{1}{8}$ -60-...-4																
VZWD-...-N $\frac{1}{4}$ -50-...-5	25	30	15.5	NPT $\frac{1}{4}$	M6	81	68	42.5	7	85	50	58	17	15.5	10	6
VZWD-...-N $\frac{1}{4}$ -60-...-4																

Solenoid valves VZWD, directly actuated, NPT

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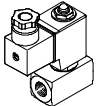
Technical data – Stainless steel housing

Ordering data – Solenoid valve VZWD					
	Process valve connection	Nominal size	Operating pressure	Product weight	Stainless steel casting housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{4}$	1	0 ... 90	650	1491895 VZWD-L-M22C-M-N14-10-V-1P4-90-R1
					1491973 VZWD-L-M22C-M-N14-10-V-2AP4-90-R1
					1492090 VZWD-L-M22C-M-N14-10-V-3AP4-90-R1
		1.5	0 ... 85	650	1491896 VZWD-L-M22C-M-N14-15-V-1P4-85-R1
					1491974 VZWD-L-M22C-M-N14-15-V-2AP4-85-R1
					1492091 VZWD-L-M22C-M-N14-15-V-3AP4-85-R1
		2	0 ... 40	650	1491897 VZWD-L-M22C-M-N14-20-V-1P4-40-R1
					1491975 VZWD-L-M22C-M-N14-20-V-2AP4-40-R1
					1492092 VZWD-L-M22C-M-N14-20-V-3AP4-40-R1
		2.5	0 ... 22	650	1491898 VZWD-L-M22C-M-N14-25-V-1P4-22-R1
					1491976 VZWD-L-M22C-M-N14-25-V-2AP4-22-R1
					1492093 VZWD-L-M22C-M-N14-25-V-3AP4-22-R1
		3	0 ... 15	650	1491899 VZWD-L-M22C-M-N14-30-V-1P4-15-R1
					1491977 VZWD-L-M22C-M-N14-30-V-2AP4-15-R1
					1492094 VZWD-L-M22C-M-N14-30-V-3AP4-15-R1
		4	0 ... 8	650	1491900 VZWD-L-M22C-M-N14-40-V-1P4-8-R1
					1491978 VZWD-L-M22C-M-N14-40-V-2AP4-8-R1
					1492095 VZWD-L-M22C-M-N14-40-V-3AP4-8-R1
		5	0 ... 5	650	1491901 VZWD-L-M22C-M-N14-50-V-1P4-5-R1
					1491979 VZWD-L-M22C-M-N14-50-V-2AP4-5-R1
					1492096 VZWD-L-M22C-M-N14-50-V-3AP4-5-R1
		6	0 ... 4	650	1491902 VZWD-L-M22C-M-N14-60-V-1P4-4-R1
					1491980 VZWD-L-M22C-M-N14-60-V-2AP4-4-R1
					1492097 VZWD-L-M22C-M-N14-60-V-3AP4-4-R1

Solenoid valves VZWD, directly actuated, NPT

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Technical data – Stainless steel housing

Ordering data – Solenoid valve VZWD						
	Process valve connection	Nominal size	Operating pressure	Product weight	Stainless steel casting housing	
		DN	[bar]	[g]	Part No.	Type
	NPT $\frac{1}{8}$	1	0 ... 90	500	1491887	VZWD-L-M22C-M-N18-10-V-1P4-90-R1
					1491965	VZWD-L-M22C-M-N18-10-V-2AP4-90-R1
					1492048	VZWD-L-M22C-M-N18-10-V-3AP4-90-R1
		1.5	0 ... 85	500	1491888	VZWD-L-M22C-M-N18-15-V-1P4-85-R1
					1491966	VZWD-L-M22C-M-N18-15-V-2AP4-85-R1
					1492049	VZWD-L-M22C-M-N18-15-V-3AP4-85-R1
		2	0 ... 40	500	1491889	VZWD-L-M22C-M-N18-20-V-1P4-40-R1
					1491967	VZWD-L-M22C-M-N18-20-V-2AP4-40-R1
					1492050	VZWD-L-M22C-M-N18-20-V-3AP4-40-R1
		2.5	0 ... 22	500	1491890	VZWD-L-M22C-M-N18-25-V-1P4-22-R1
					1491968	VZWD-L-M22C-M-N18-25-V-2AP4-22-R1
					1492051	VZWD-L-M22C-M-N18-25-V-3AP4-22-R1
		3	0 ... 15	500	1491891	VZWD-L-M22C-M-N18-30-V-1P4-15-R1
					1491969	VZWD-L-M22C-M-N18-30-V-2AP4-15-R1
					1492052	VZWD-L-M22C-M-N18-30-V-3AP4-15-R1
		4	0 ... 8	500	1491892	VZWD-L-M22C-M-N18-40-V-1P4-8-R1
					1491970	VZWD-L-M22C-M-N18-40-V-2AP4-8-R1
					1492053	VZWD-L-M22C-M-N18-40-V-3AP4-8-R1
		5	0 ... 5	500	1491893	VZWD-L-M22C-M-N18-50-V-1P4-5-R1
					1491971	VZWD-L-M22C-M-N18-50-V-2AP4-5-R1
					1492054	VZWD-L-M22C-M-N18-50-V-3AP4-5-R1
		6	0 ... 4	500	1491894	VZWD-L-M22C-M-N18-60-V-1P4-4-R1
					1491972	VZWD-L-M22C-M-N18-60-V-2AP4-4-R1
					1492055	VZWD-L-M22C-M-N18-60-V-3AP4-4-R1