

Solenoid valves VZWD, directly actuated, NPT

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Solenoid valves VZWD, directly actuated, NPT

Key features and overview

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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

- N- Connecting thread
N $\frac{1}{4}$, N $\frac{1}{8}$
-  - Flow rate Kv
0.06 ... 0.4 m³/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

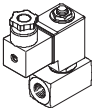
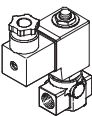
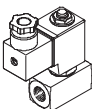
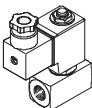
Advantages

- Valves 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-...	NPT $\frac{1}{4}$	1	0 ... 50	5	
			1.5	0 ... 30		
			2	0 ... 15		
			2.5	0 ... 8		
		NPT $\frac{1}{8}$	1	0 ... 50	5	
			1.5	0 ... 30		
			2	0 ... 15		
Brass housing						
	VZWD-L-...	NPT $\frac{1}{4}$	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		
		NPT $\frac{1}{8}$	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	NPT $\frac{1}{4}$	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	NPT $\frac{1}{8}$	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
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Type of directional control valve

L	In-line valve
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Valve function

M22C	2/2-way valve, normally closed, mechanical reset
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Reset method

M	Mechanical spring
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Process valve connection

N18	NPT $\frac{1}{8}$
-----	-------------------

N14	NPT $\frac{1}{4}$
-----	-------------------

Nominal size (DN)

10	1.0 mm
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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
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Nominal operating voltage

1	24 V DC
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2A	110 V AC/50-60 Hz
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3A	230 V AC/50-60 Hz
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Electrical connection

P4	Plug socket, 3-pin
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Operating pressure

4	Max. 4 bar
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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
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Corrosion protection

	Brass
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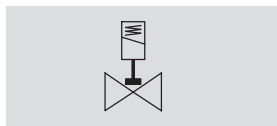
R1	Stainless steel
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Technical data – Brass housing

Function



–  – Flow rate Kv
0.06 ... 0.16 m³/h

-N- 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 Kv [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

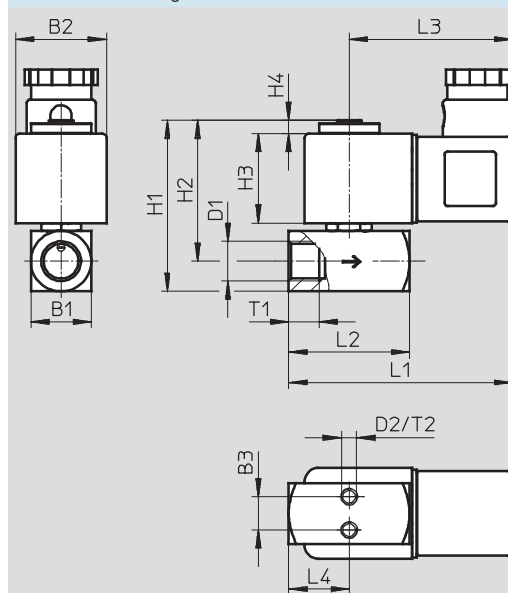
Electrical data			
		VZWD- ... 1	VZWD- ... 2A
		VZWD- ... 3A	
Electrical connection		Plug to EN 175301-803 type A, square design	
CE marking		–	73/23/EEC
Insulation class		H	F
Duty cycle		[%]	100
Permissible voltage fluctuations		[%]	±10
Coil characteristics	Direct current DC	[V]	24
	Alternating current AC	[V]	–
		[W]	6.8
	Pick-up power	[VA]	–
	Holding power	[VA]	10.5
		[Hz]	–
	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

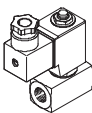


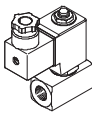
Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N1/8-10-...-50	15	30	8	NPT1/8	M5	52	44	30	5	70	32	54	16	–	8	5
VZWD-...-N1/8-15-...-30																
VZWD-...-N1/8-20-...-15																
VZWD-...-N1/4-10-...-50	20	30	11	NPT1/4	M5	57	47	30	5	74	40	54	20	–	10	5
VZWD-...-N1/4-15-...-30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

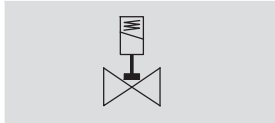
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	N $\frac{1}{8}$	1	0 ... 50	300	1491942 VZWD-L-M22C-M-N18-10-V-2AP4-50
					1492020 VZWD-L-M22C-M-N18-10-V-3AP4-50
					1491864 VZWD-L-M22C-M-N18-10-V-1P4-50
		1.5	0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

-N- 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 Kv [m³/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

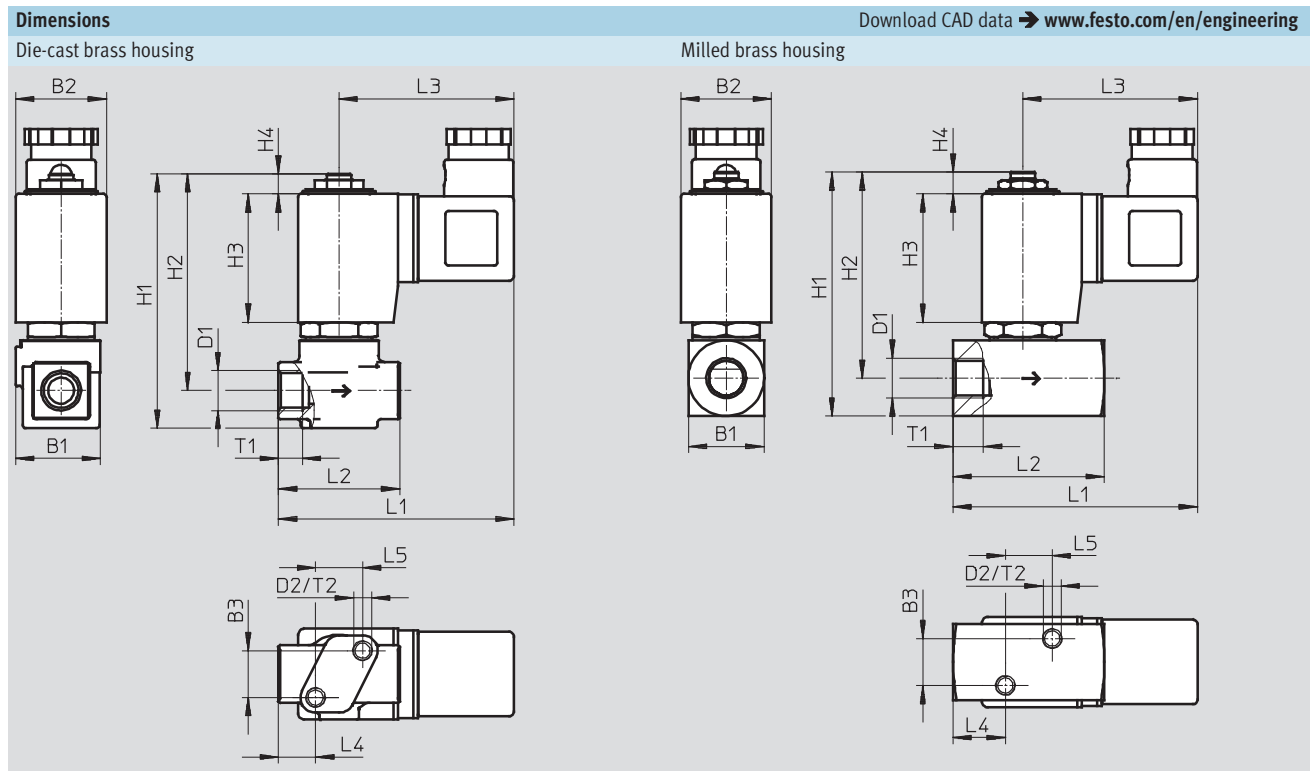
Electrical data				
		VZWD- ... 1	VZWD- ... 2A	VZWD- ... 3A
Electrical connection		Plug to EN 175301-803 type A, square design		
CE marking		–	73/23/EEC	73/23/EEC
Insulation class		H	F	F
Duty cycle		[%]	100	
Permissible voltage fluctuations		[%]	±10	
Coil characteristics	Direct current DC	[V]	24	–
	Alternating current AC	[V]	–	110
		[W]	11	–
	Pick-up power	[VA]	–	19
	Holding power	[VA]	–	16
		[Hz]	–	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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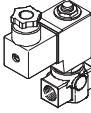


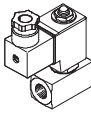
Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N $\frac{1}{8}$ -10-...-90	28	30	15.5	NPT $\frac{1}{8}$	M6	84	72	42.5	6.5	78	40	58	12	15.5	8	6
VZWD-...-N $\frac{1}{8}$ -15-...-85																
VZWD-...-N $\frac{1}{8}$ -20-...-40																
VZWD-...-N $\frac{1}{8}$ -25-...-22				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

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Technical data – Brass housing

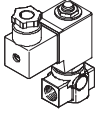
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{4}$	1	0 ... 90	550	1491957 VZWD-L-M22C-M-N14-10-V-2AP4-90
					1492040 VZWD-L-M22C-M-N14-10-V-3AP4-90
					1491879 VZWD-L-M22C-M-N14-10-V-1P4-90
		1.5	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

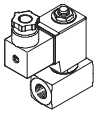
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{4}$	5	0 ... 5	600	1491885 VZWD-L-M22C-M-N14-50-V-1P4-5
					1491963 VZWD-L-M22C-M-N14-50-V-2AP4-5
					1492046 VZWD-L-M22C-M-N14-50-V-3AP4-5
		6	0 ...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

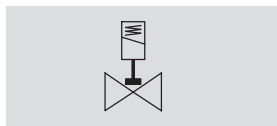
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{8}$	5	0 ... 5	600	1491877 VZWD-L-M22C-M-N18-50-V-1P4-5
					1491955 VZWD-L-M22C-M-N18-50-V-2AP4-5
					1492033 VZWD-L-M22C-M-N18-50-V-3AP4-5
		6	0 ...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

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Technical data – Stainless steel housing

Function



-  - Flow rate Kv
0.06 ... 0.4 m³/h

-N- Connecting thread
N¼, N½



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 Kv [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

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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

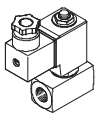
[Download CAD data → www.festo.com/en/engineering](http://www.festo.com/en/engineering)

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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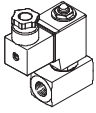
Technical data – Stainless steel housing

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 DN	Operating pressure [bar]	Product weight [g]	Stainless steel casting housing	
					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

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Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
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