

Solenoid valves VZWD, directly actuated, NPT



Solenoid valves VZWD, directly actuated, NPT

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

-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

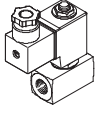
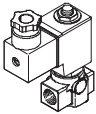
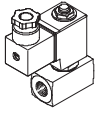
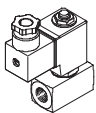
- Design insensitive to slight contamination of the media

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 $\frac{3}{8}$	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 $\frac{3}{8}$	1	0 ... 90	8
			1.5	0 ... 85	
			2	0 ... 40	
			2.5	0 ... 22	
			3	0 ... 15	
			4	0 ... 8	
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 $\frac{3}{8}$	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 ¹ / ₈
N14	NPT 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
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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
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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

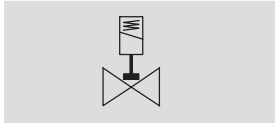
Corrosion protection


	Brass
R1	Stainless steel

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Technical data – Brass housing

Function



-  - Flow rate Kv
0.06 ... 0.16 m³/h

-N- Connecting thread
N¹/₄, N¹/₈



General technical data		1.0	1.5	2.0	2.5
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		1.0	1.5	2.0	2.5
Nominal size (DN)		1.0	1.5	2.0	2.5
Standard nominal flow rate	[l/min]	60	95	140	170
Flow rate	[m ³ /h]	0.06	0.09	0.13	0.16
Process valve nominal pressure (PN)		50			
Process valve operating medium		Filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated, neutral gases, vacuum, neutral liquids, water, mineral oil			
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.

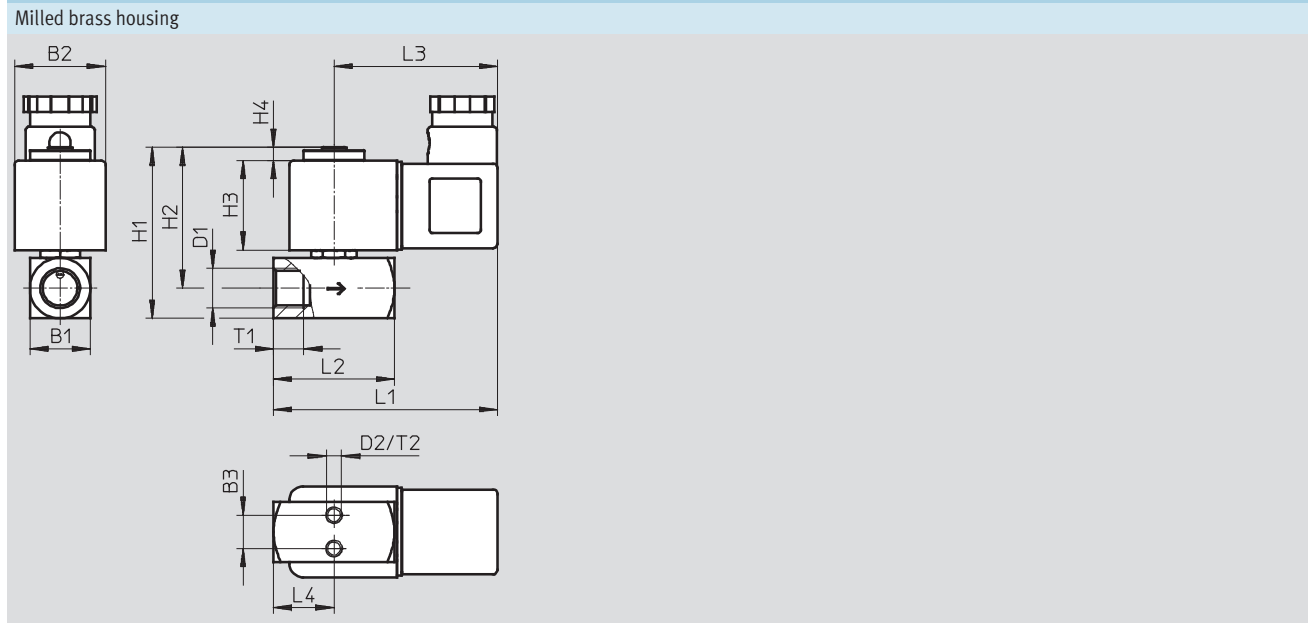
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Technical data – Brass housing

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
		[W]	11	–
	Pick-up power	[VA]	–	10.5
	Holding power	[VA]	–	8
		[Hz]	–	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

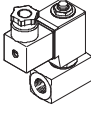


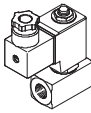
Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N1/8-10-...-50	15	30	8	NPT1/8	M5	52	44	30	5	70	32	54	16	–	8	5
VZWD-...-N1/8-15-...-30																
VZWD-...-N1/8-20-...-15																
VZWD-...-N1/4-10-...-50	20	30	11	NPT1/4	M5	57	47	30	5	74	40	54	20	–	10	5
VZWD-...-N1/4-15-...-30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

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Technical data – Brass housing

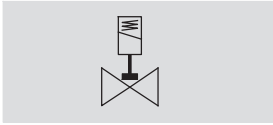
Ordering data						
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing	
		DN	[bar]	[g]	Part No.	Type
	N $\frac{1}{4}$	1	0 ... 50	350	1491945	VZWD-L-M22C-M-N14-10-V-2AP4-50
					1492023	VZWD-L-M22C-M-N14-10-V-3AP4-50
					1491867	VZWD-L-M22C-M-N14-10-V-1P4-50
		1.5	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 [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	Filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated, neutral gases, vacuum, neutral liquids, water, mineral oil							
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

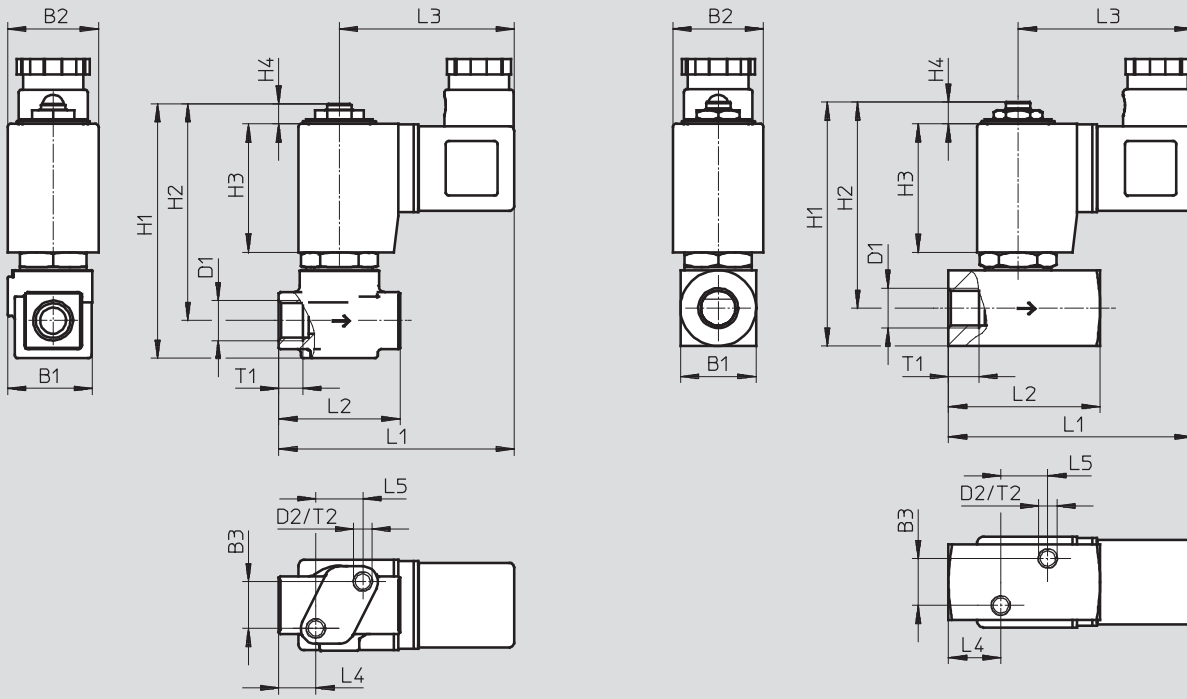
Technical data – Brass housing

Dimensions

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

Die-cast brass housing

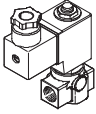
Milled brass housing

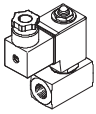


Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N1/8-10-...-90	28	30	15.5	NPT1/8	M6	84	72	42.5	6.5	78	40	58	12	15.5	8	6
VZWD-...-N1/8-15-...-85																
VZWD-...-N1/8-20-...-40																
VZWD-...-N1/8-25-...-22																
VZWD-...-N1/8-30-...-15																
VZWD-...-N1/8-40-...-8																
VZWD-...-N1/4-10-...-90	28	30	15.5	NPT1/4	M6	84	72	42.5	6.5	78	40	58	12	15.5	10	6
VZWD-...-N1/4-15-...-85																
VZWD-...-N1/4-20-...-40																
VZWD-...-N1/4-25-...-22																
VZWD-...-N1/4-30-...-15																
VZWD-...-N1/4-40-...-8																
VZWD-...-N1/8-50-...-5	25	30	15.5	NPT1/8	M6	81	68	42.5	7	78	40	58	12	15.5	8	6
VZWD-...-N1/8-60-...-4																
VZWD-...-N1/4-50-...-5	25	30	15.5	NPT1/4	M6	81	68	42.5	7	85	50	58	17	15.5	10	6
VZWD-...-N1/4-60-...-4																

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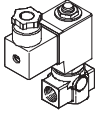
Technical data – Brass housing

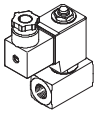
Ordering data						
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing	
		DN	[bar]	[g]	Part No.	Type
	NPT $\frac{1}{4}$	1	0 ... 90	550	1491957	VZWD-L-M22C-M-N14-10-V-2AP4-90
					1492040	VZWD-L-M22C-M-N14-10-V-3AP4-90
					1491879	VZWD-L-M22C-M-N14-10-V-1P4-90
		1.5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

Solenoid valves VZWD, directly actuated, NPT

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

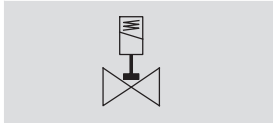
Ordering data					
	Process valve connection	Nominal size	Operating pressure	Product weight	Brass housing
		DN	[bar]	[g]	Part No. Type
	NPT $\frac{1}{8}$	5	0 ... 5	600	1491877 VZWD-L-M22C-M-N18-50-V-1P4-5
					1491955 VZWD-L-M22C-M-N18-50-V-2AP4-5
					1492033 VZWD-L-M22C-M-N18-50-V-3AP4-5
		6	0 ...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

Technical data – Stainless steel housing



Function



-  - Flow rate Kv
0.06 ... 0.4 m³/h

-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							
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 [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	Filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated, neutral gases, vacuum, neutral liquids, water, mineral oil							
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.

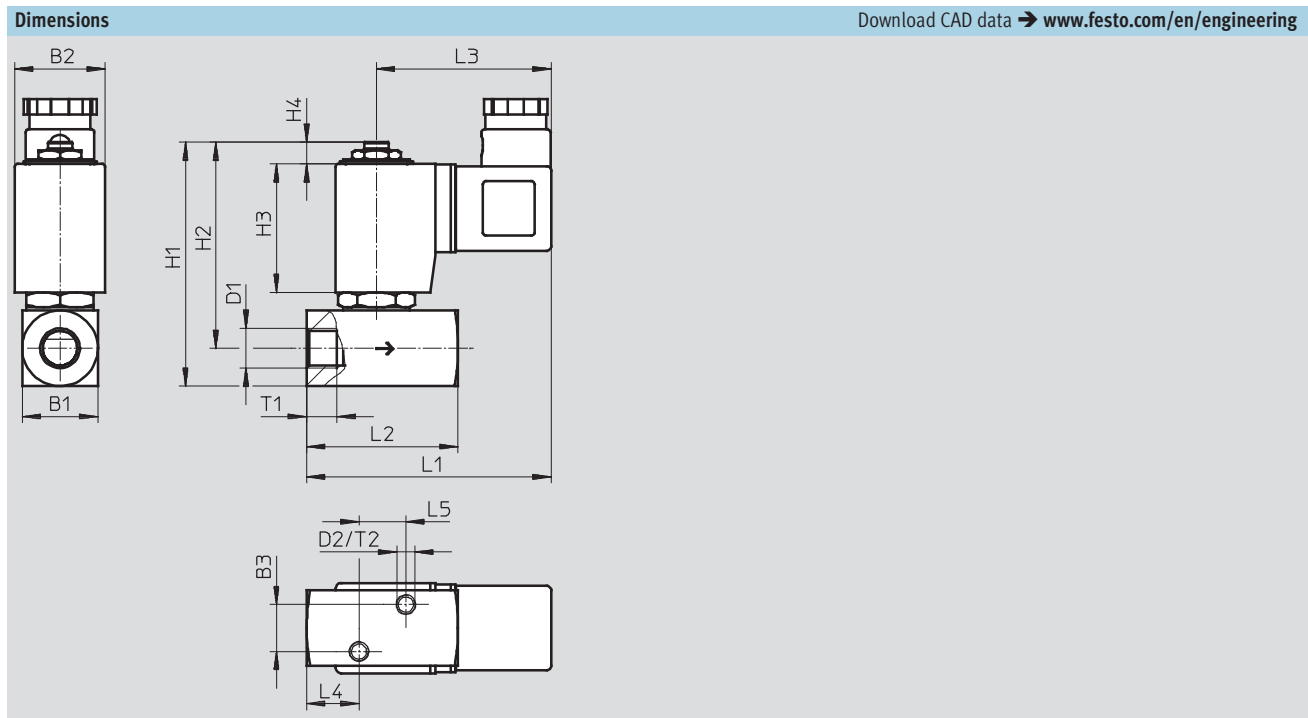
Solenoid valves VZWD, directly actuated, NPT

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
		[W]	11	–
	Pick-up power	[VA]	–	10.5
	Holding power	[VA]	–	8
		[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
2 Seals	FPM	
– Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	

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

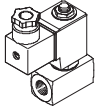


Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	T1	T2
VZWD-...-N $\frac{1}{8}$ -50-...-5	25	30	15.5	NPT $\frac{1}{8}$	M6	81	68	42.5	7	78	40	58	12	15.5	8	6
VZWD-...-N $\frac{1}{8}$ -60-...-4																
VZWD-...-N $\frac{1}{4}$ -50-...-5	25	30	15.5	NPT $\frac{1}{4}$	M6	81	68	42.5	7	85	50	58	17	15.5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

Solenoid valves VZWD, directly actuated, NPT

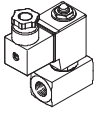
Technical data – Stainless steel housing



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 $\frac{1}{4}$	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

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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