


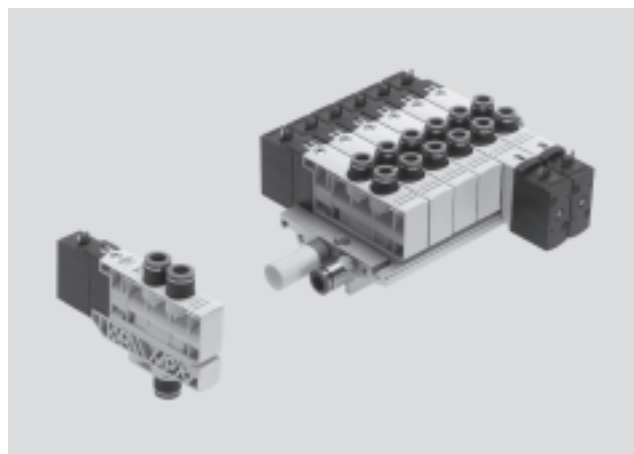


Solenoid valves VUVB

Technical data – Individual valves and manifold valves

-  Voltage
12, 24 V DC
24, 110, 230 V AC
-  Pressure
-0.9 ... +8 bar
-  Temperature range
-5 ... +50 °C



General technical data					
Valve function			3/2, single solenoid	4/2, single solenoid	4/2, double solenoid
Constructional design			Piston spool valve		
Sealing principle			Soft		
Type of actuation			Electrical		
Type of reset			Pneumatic spring		–
Type of control			Piloted		
Pilot air supply			Internal or external		
Direction of flow			Non-reversible		
Exhaust function			No flow control		
Manual override facility			Non-detenting, detenting		
Type of mounting			Via through-holes		
Installation position			Any		
Nominal size		[mm]	7		
Standard nominal flow rate		qnN	[l/min]	200 (QS-4), 500 (QS-6), 800 (QS-8), 1,000 (QS-10)	
Width		[mm]	20		
Product weight	In-line valve	[g]	170	170	240
	Semi in-line valve	[g]	150	150	220

Operating and environmental conditions				
Operating medium		Dried and filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm, vacuum		
Operating pressure range	Internal pilot air supply	[bar]	2 ... 8	
	External pilot air supply	[bar]	-0.9 ... +8	
Pilot pressure range		[bar]	2 ... 8	
Ambient temperature		[°C]	-5 ... +50	
Temperature of medium		[°C]	-5 ... +50	
Corrosion resistance class CRC			1 ¹⁾	

1) Corrosion resistance class 1 to Festo standard 940 070
Components requiring low corrosion resistance. 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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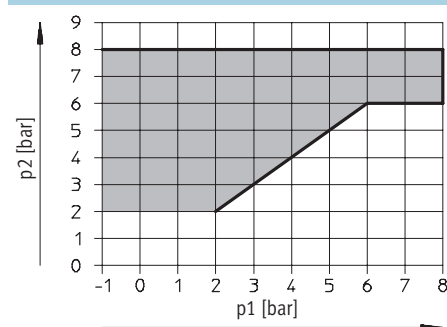
Technical data – Individual valves and manifold valves

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Electrical data			
Electrical connection			Plug, square design to EN 175301-803, type C
Nominal operating voltage	DC	[V]	12, 24
	AC	[V]	24, 110, 230
Permissible voltage fluctuations			±10%
Electrical power consumption	12 V DC	[W]	1.4
	24 V DC	[W]	1.5
	24 V AC	[VA]	Pull: 3.1, hold: 2.2
	110 V AC	[VA]	Pull: 3.1, hold: 2.2
	230 V AC	[VA]	Pull: 3.1, hold: 2.2
Protection class to EN 60529			IP65 (in combination with plug socket)

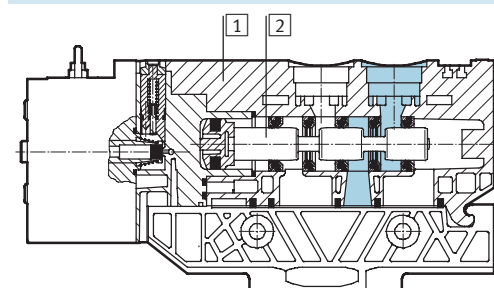
Valve response times [ms]			
Valve function	3/2, single solenoid	4/2, single solenoid	4/2, double solenoid
On	20	20	–
Off	20	20	–
Changeover	–	–	15

Pilot pressure p2 as a function of operating pressure p1

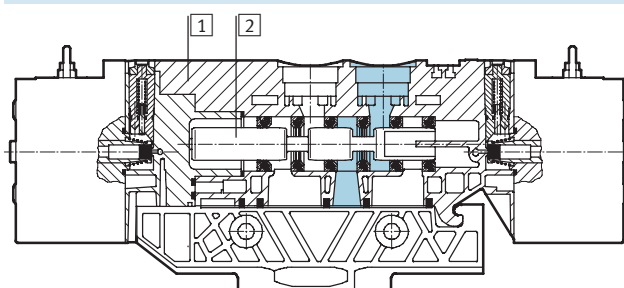


Materials

Sectional view – Single solenoid valve



Sectional view – Double solenoid valve



1	Housing	Reinforced polyamide
2	Piston spool	Wrought aluminium alloy
–	Seals	Nitrile rubber, hydrogenated nitrile rubber, fluorocarbon rubber