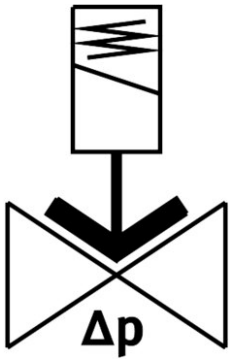
Air solenoid valve
VZWM-L-M22C-N14-F5-R1

Part number: 546170



General operating condition

Data sheet

Feature	Value
Structural design	Diaphragm valve Servo-controlled
Actuation type	Electrical
Sealing principle	Soft
Mounting position	Preferably upright
Type of mounting	In-line installation
Fitting connection	1/4 NPT
Electrical connection	Solenoid coil type MH-... , coil can be ordered as an accessory
Nominal width	13 mm
Valve function	2/2-way, closed, monostable
Flow direction	Non-reversible
Medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Water Neutral liquids
Medium pressure of liquid media	0.05 MPa ... 0.6 MPa
Medium pressure of liquid media	0.5 bar ... 6 bar
Medium pressure of liquid media	7.25 psi ... 87 psi
Medium pressure of gaseous media	0.05 MPa ... 1 MPa
Medium pressure of gaseous media	0.5 bar ... 10 bar
Medium pressure of gaseous media	7.25 psi ... 145 psi
Burst pressure	4 MPa
Burst pressure	40 bar
Burst pressure	580 psi
Overload pressure	4 MPa
Overload pressure	40 bar
Overload pressure	580 psi
Pressure difference	0.05 MPa
Differential pressure	0.5 bar
Pressure difference	7.25 psi

Feature	Value
Type of control	Piloted
Symbol	00995681
Max. viscosity	22 mm²/s
Temperature of medium	-10 °C ... 60 °C
Temperature of liquid media	5 °C ... 50 °C
Ambient temperature	-10 °C ... 60 °C
Flow rate Kv	1.6 m³/h
Normal nominal flow rate (normalized to DIN 1343)	1400 l/min
On switching time	8 ms
Response time "on" for liquid media	80 ms
Switching time off	10 ms
Response time "off" for liquid media	210 ms
b-value	0.3
C value	6 l/sbar
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III
Housing material	Cast stainless steel
Material number of housing	1,4581
Seals material	NBR
Armature tube material	High-alloy steel
Product weight	400 g
Corrosion resistance class (CRC)	3 - High corrosion stress
Max. torque for cover screw	20 Nm
Max. tightening torque for connecting thread	35 Nm
Max. tightening torque for coil fastening	2 Nm