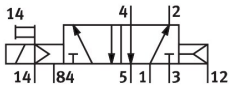
Air solenoid valve
CPV10-M1H-5LS-M7

Part number: 161414





General operating condition

Data sheet

Feature	Value
Valve function	5/2, monostable
Actuation type	Electrical
Valve size	10 mm
Standard nominal flow rate	400 l/min
Pneumatic working port	M7
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Structural design	Piston gate valve
Reset method	Pneumatic spring
Degree of protection	IP65
Nominal width	4 mm
Exhaust air function	Without flow control option
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of control	Pilot-controlled
Pilot air supply port	External Internal
Flow direction	Non-reversible
Symbol	00991027
Lap	Overlap
Pilot pressure MPa	0.3 MPa ... 0.8 MPa
Pilot pressure	3 bar ... 8 bar
b-value	0.4
C value	1.6 l/sbar
Switching time off	27 ms
On switching time	17 ms
Duty cycle	100% in combination with holding current reduction
Electrical power consumption	0.46 W
Max. positive test pulse with 0 signal	1400 µs
Max. negative test pulse on 1 signal	700 µs
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-20 °C ... 40 °C
Temperature of medium	-5 °C ... 50 °C
Ambient temperature	-5 °C ... 50 °C
Product weight	70 g
Type of mounting	With through-hole
Pilot air port 12/14	Common port
Pilot exhaust air port 82/84	Common port
Pneumatic connection 1	Common port
Pneumatic connection 11	Common port
Pneumatic connection 2	M7
Pneumatic port 3/5 combined	Common port
Pneumatic connection 4	M7
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	POM PPS Steel