

# Solenoid valve

## CPV18-M1H-5LS-1/4

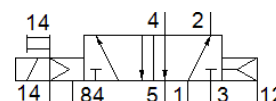
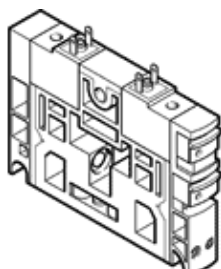
Part number: 163190  
Classic - do not use for new projects

FESTO

[For valve manifold CPV.](#)

This type is suitable for vacuum.

Modern alternatives can be found by entering the first four characters of the type code in the search field.



## Data sheet

Feature	Value
Valve function	5/2 monostable
Type of actuation	electrical
Valve size	18 mm
Standard nominal flow rate	1,600 l/min
Operating pressure MPa	-0.09 ... 1 MPa
Working pressure	-0.9 ... 10 bar
Design structure	Piston slide
Type of reset	Air spring
Authorization	C-Tick
Protection class	IP65
Nominal size	8 mm
Exhaust-air function	not throttleable
Sealing principle	soft
Assembly position	Any
Manual override	detenting Pushing
Type of piloting	Piloted
Pilot air supply	external Internal
Flow direction	non reversible
Lap	Positive overlap
Pilot pressure MPa	0.3 ... 0.8 MPa
Pilot pressure	3 ... 8 bar
b value	0.38
C value	6.3 l/sbar
Switching time off	26 ms
Switching time on	18.5 ms
Duty cycle	100 %
Electrical power consumption	1.5 W
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Storage temperature	-20 ... 40 °C
Medium temperature	-5 ... 50 °C
Ambient temperature	-5 ... 50 °C
Product weight	260 g
Mounting type	with through hole
Auxiliary pilot air port 12/14	Common line
Pilot exhaust port 82/84	Common line

Feature	Value
Pneumatic connection, port 1	Common line
Pneumatic connection, 11	Common line
Pneumatic connection, port 2	G1/4
Pneumatic ports 3/5 combined	Common line
Pneumatic connection, port 4	G1/4
Materials note	Conforms to RoHS
Material seals	HNBR NBR
Material housing	Aluminum die cast Brass POM PPS Steel