

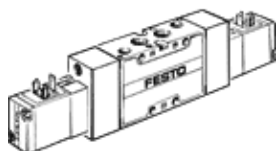
# solenoid valve

## MVH-5/3B-1/4-B

Part number: 19140  
Classic - do not use for new projects

FESTO

With solenoid coil and manual override, without plug socket.  
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	5/3 pressurised
Type of actuation	electrical
Width	32 mm
Standard nominal flow rate	1,600 l/min
Operating pressure MPa	0.3 ... 1 MPa
Operating pressure	3 ... 10 bar
Design structure	Piston slide
Type of reset	mechanical spring
Nominal size	10 mm
Grid dimension	33 mm
Exhaust-air function	throttleable
Sealing principle	soft
Assembly position	Any
Manual override	Pushing
Type of piloting	Piloted
Pilot air supply	Internal
Flow direction	non reversible
Overlap	Positive overlap
b value	0.38
C value	6.35 l/sbar
Max. switching frequency	3 Hz
Switching time off	41 ms
Switching time on	32 ms
Switching time reversal	46 ms
Max. positive test pulse with logic 0	2,200 µs
Max. negative test pulse with logic 1	3,700 µs
Characteristic coil data	24 V DC: 2.5 W
Permissible voltage fluctuation	+/- 10 %
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	1 - Low corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Storage temperature	-40 ... 60 °C
Medium temperature	-5 ... 50 °C
Ambient temperature	-5 ... 50 °C
Product weight	660 g
Mounting type	On PR manifold with through hole Optional
Pilot exhaust port 82	M5
Pilot exhaust port 84	M5

Feature	Value
Pilot air port 12	G1/8
Pilot air port 14	G1/8
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 2	G1/4
Pneumatic connection, port 3	G1/4
Pneumatic connection, port 4	G1/4
Pneumatic connection, port 5	G1/4
Materials note	Conforms to RoHS
Material seals	NBR
Material housing	Aluminium die cast