

# Solenoid valve

## MFH-5/3B-1/8-B-EX

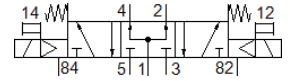
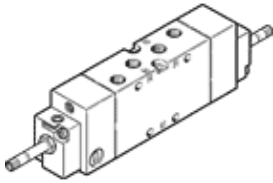
Part number: 535948

Classic - do not use for new projects

With manual override, without solenoid coil or socket. Solenoid coil and socket should be ordered separately.

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

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## Data sheet

Feature	Value
Valve function	5/3 pressurized
Type of actuation	electrical
Width	26 mm
Standard nominal flow rate	1,000 l/min
Operating pressure MPa	0.3 ... 1 MPa
Working pressure	3 ... 10 bar
Design structure	Piston slide
Type of reset	mechanical spring
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
UKCA marking (see declaration of conformity)	To UK EX instructions
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIC T4 Gb
Explosion ignition protection type Dust	Ex h IIIC T130°C Db
Explosion-proof ambient temperature	-5 °C ≤ Ta ≤ +40 °C
Protection class	IP65
Nominal size	8 mm
Grid dimension	27 mm
Sealing principle	soft
Assembly position	Any
Manual override	Pushing
Type of piloting	Piloted
Pilot air supply	Internal
Flow direction	non reversible
Lap	Positive overlap
Max. switching frequency	3 Hz
Switching time off	21 ms
Switching time on	23 ms
Switching time reversal	16 ms
Max. positive test pulse with logic 0	2,200 μs
Max. negative test pulse with logic 1	3,700 μs
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 ... 40 °C
Ambient temperature	-5 ... 40 °C

Feature	Value
Product weight	440 g
Electrical connection	Via F coil, must be ordered separately
Mounting type	with through hole
Pilot exhaust port 82	M5
Pilot exhaust port 84	M5
Pneumatic connection, port 1	G1/8
Pneumatic connection, port 2	G1/8
Pneumatic connection, port 3	G1/8
Pneumatic connection, port 4	G1/8
Pneumatic connection, port 5	G1/8
Materials note	Conforms to RoHS
Material seals	NBR
Material housing	Aluminum die cast