

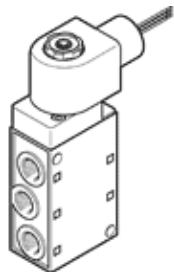
solenoid valve

MFH-5-1/4-S-EX

Part number: 535910

FESTO

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



Data sheet

Feature	Value
Valve function	5/2 monostable
Type of actuation	electrical
Width	30.5 mm
Standard nominal flow rate	1,000 l/min
Operating pressure MPa	0 ... 0.8 MPa
Operating pressure	0 ... 8 bar
Design structure	Poppet seat
Type of reset	mechanical spring
CE mark (see declaration of conformity)	to EU directive explosion protection (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	7 mm
Grid dimension	32 mm
Exhaust-air function	throttleable
Sealing principle	soft
Assembly position	Any
Manual override	detenting
Type of piloting	Piloted
Pilot air supply	external
Flow direction	non reversible
Overlap	Underlap
Pilot pressure MPa	0.15 ... 0.8 MPa
Pilot pressure	1.5 ... 8 bar
b value	0.19
C value	4.49 l/sbar
Switching time off	29 ms
Switching time on	9 ms
Max. positive test pulse with logic 0	2,200 μs
Max. negative test pulse with logic 1	3,700 μs
Characteristic coil data	See solenoid coil, to be ordered separately
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	-20 ... 60 °C

Feature	Value
Medium temperature	-5 ... 40 °C
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 ... 40 °C
Product weight	290 g
Electrical connection	Via F coil, must be ordered separately
Mounting type	on manifold rail with through hole Optional
Scavenging orifice connection	M5
Pilot exhaust port 84	M5
Pilot air port 14	M5
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 TPE-U(PU)
Material housing	Aluminium die cast