Solenoid valve JMFH-5-1/4-B-EX

Part number: 535931
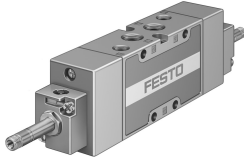
Data sheet

Feature	Value
Valve function	5/2 double solenoid
Type of actuation	Electric
Construction width	32 mm
Standard nominal flow rate	1600 l/min
pneumatic working port	G1/4
Operating pressure	0.2 MPa...1 MPa 2 bar...10 bar
Design	Piston gate valve
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
CE marking (see declaration of conformity)	To UK EX instructions
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T4 Gb
Explosion ignition protection type for dust	Ex h IIIC T130°C Db
Explosion ambient temperature	-5°C <= Ta <= +40°C
Nominal size	10 mm
Grid dimension	33 mm
Exhaust-air function	With flow control option
Sealing principle	Soft
Mounting position	optional
Manual override	Non-detenting
Type of piloting	Pilot actuated
Pilot air supply	Internal
Flow direction	Non-reversible
lap	Positive overlap
b value	0.38
C value	6.35 l/sbar
Max. switching frequency	3 Hz
Switching time reversal	14 ms
Max. positive test pulse with 0 signal	2200 µs

Feature	Value
Max. negative test pulse with 1 signal	3700 µs
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-40 ºC...60 ºC
Media temperature	-10 ºC...60 ºC
Ambient temperature	-5 ºC...40 ºC
Product weight	460 g
Electrical connection	Via F coil, to be ordered separately
Type of mounting	With through-hole
Pilot exhaust port 82	M5
Pilot exhaust port 84	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
Note on materials	RoHS-compliant
Material seals	NBR
Material housing	Die-cast aluminium