Air solenoid valve MFH-5-1/8-S-EX Part number: 535909

FESTO





Data sheet

Actuation type Electrical Width 26 mm Standard nominal flow rate 500 l/min Pheumatic working port Operating voltage Via solenoid coil, to be ordered separately Operating pressure O MPa1 MPa O bar10 bar Structural design Reset method CE marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) EPL Cb (GB) EPL Cb (GB) ATEX category gas Il 2G ATEX category for dust Il 2D Explosifing protection for gas Ex h III CT 4 Gb Explosifing protection for dust Explosive ambient temperature Degree of protection IP65 Nominal width 5 mm Width dimension Any Manual override Mounting position Manual override Detenting Filot pressure MPa Usia Sull Pale La Plunce (SB) External Flow direction Non-reversible Liap Underlap Pilot pressure MPa	Feature	Value
Width 26 mm Standard nominal flow rate 500 l/min Pneumatic working port 61/8 Operating voltage Via solenoid coil, to be ordered separately Operating pressure 0 MPa1 MPa 0 bar10 bar Structural design Plate seat Reset method Mechanical spring CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EVEN Disconsider of the EVEN Disconsider of EVEN Disconsider of the EVEN DISCONSIDERATE OF THE EVEN DISC	Valve function	5/2, monostable
Standard nominal flow rate Pneumatic working port Operating voltage Operating pressure Operating operation Operation Operating operation Operating operation	Actuation type	Electrical
Preumatic working port Operating voltage Via solenoid coil, to be ordered separately Operating pressure OMPa1 MPa Obar10 bar Obar10	Width	26 mm
Operating voltage Operating pressure O MPa1 MPa O bar10 bar Structural design Reset method CE marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) EPL Gb (GB) EPL Gb (GB) ATEX category gas II 2G ATEX category for dust II 2D	Standard nominal flow rate	500 l/min
Operating pressure O MPa1 MPa O bar10 bar Plate seat Reset method Reset method CE marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) UKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for dust Explosive ambient temperature Degree of protection IP65 Nominal width S mm Width dimension EX any With flow control option Sealing principle Mounting position Mounting position Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa O Mechanical spring Mechanical spring Mechanical spring EPL Db Mechanical spring Mechanical spring Plate seat Mechanical spring EPL Db Mechanical spring Mechanical spring Plate seat Mechanical spring Mechanical spring Plate seat Mechanical spring Mechanical spring Plate seat Mechanical spring Mechanical spring Determine Plate seat Mechanical spring Determine Determine Determine Plate seat Mechanical spring Determine sp	Pneumatic working port	G1/8
O bar10 bar Structural design Plate seat Reset method Mechanical spring CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) UKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust II 2D Type of lignition protection for gas Ex h IIC T4 Gb Type of lignition) protection for dust Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa	Operating voltage	Via solenoid coil, to be ordered separately
Reset method Mechanical spring as per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) BPL Gb (GB) EPL	Operating pressure	
Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) EPL	Structural design	Plate seat
Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) UKCA marking (see declaration of conformity) acc. to UK EX instructions II 2G ATEX category gas II 2D Type of ignition protection for gas Ex h IIC T4 Gb Type of (ignition) protection for dust Ex h IIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Any Manual override Type of control Pilot air supply port External Flow direction Non-reversible Lap Pilot pressure MPa II 2G EPL Db (GB) Extension EPL Db (GB) EPL Db (GB) Extension In 2G In 2D	Reset method	Mechanical spring
EPL Gb (GB) UKCA marking (see declaration of conformity) acc. to UK EX instructions II 2G ATEX category gas II 2D Type of ignition protection for gas Ex h IIC T4 Gb Type of (ignition) protection for dust Ex h IIIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Any Manual override Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
ATEX category gas ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Ex h IIC T130°C Db Explosive ambient temperature 5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa	Explosion protection certification outside the EU	
ATEX category for dust Type of ignition protection for gas Ex h IIC T4 Gb Ex h IIIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension Exhaust air function Sealing principle Soft Mounting position Manual override Type of control Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa Exh IIIC T4 Gb Exh IIIC T130°C Db Exh IIIC T4 Gb Exh IIIC T130°C Db Exh IIIC T130°C Exh IIIC	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension Exhaust air function Sealing principle Mounting position Manual override Type of control Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa Exh IIC T4 Gb Ex h IIC T4 Gb Ex h IIC T130°C Db Exh IIIC T130°C Db Ex h IIIC T130°C Db Exh IIIC T140°C	ATEX category gas	II 2G
Type of (ignition) protection for dust Ex h IIIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa Ex h IIIC T130°C Db Ex h IIC T130°C Db E	ATEX category for dust	II 2D
Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 5 mm Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Type of ignition protection for gas	Ex h IIC T4 Gb
Degree of protection IP65 Nominal width 5 mm Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa IP65 Mm IP65 IP66 IP66	Type of (ignition) protection for dust	Ex h IIIC T130°C Db
Nominal width 5 mm Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Explosive ambient temperature	-5°C <= Ta <= +40°C
Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Degree of protection	IP65
Exhaust air function Sealing principle Soft Mounting position Any Manual override Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa With flow control option Soft Any Lap Underlap O.12 MPa0.8 MPa	Nominal width	5 mm
Sealing principle Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa O.12 MPa0.8 MPa	Width dimension	27 mm
Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Exhaust air function	With flow control option
Manual override Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa O.12 MPa0.8 MPa	Sealing principle	Soft
Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Mounting position	Any
Pilot air supply port External Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Manual override	Detenting
Flow direction Non-reversible Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Type of control	Pilot-controlled
Lap Underlap Pilot pressure MPa 0.12 MPa0.8 MPa	Pilot air supply port	External
Pilot pressure MPa 0.12 MPa0.8 MPa	Flow direction	Non-reversible
	Lap	Underlap
Pilot pressure 1.2 bar8 bar	Pilot pressure MPa	0.12 MPa0.8 MPa
	Pilot pressure	1.2 bar8 bar

Feature	Value
Switching time off	36 ms
On switching time	8 ms
Max. positive test pulse with 0 signal	2200 μs
Max. negative test pulse on 1 signal	3700 μs
Coil characteristics	See solenoid coil, to be ordered separately
Explosion prevention and protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-20 °C60 °C
Temperature of medium	-5 °C40 °C
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C40 °C
Product weight	270 g
Type of mounting	On terminal strip With through-hole Optionally:
Venting hole connection	M5
Pilot exhaust air port 84	M5
Pilot air port 14	M5
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Seals material	NBR TPE-U(PU)
Housing material	Die-cast aluminum