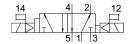
Air solenoid valve JMFDH-5/2-D-1-C-EX Part number: 536071







Data sheet

Electrical Width 42 mm Standard nominal flow rate 1200 l/min Preumatic working port Sub-base, size 1 according to ISO 5599-1 G1/4 Operating voltage Via solenoid coil, to be ordered separately 2 Derating pressure 2 bar10 bar Structural design Piston gate valve CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) ATEX category gas II 2G ATEX category for dust II 2D IVEQ of lignition protection for gas IVEQ of lignition protection for dust Ex h IICT 105°C Db Explosion protection certification outside the EU Explosion protection certification outside the EU EPL Db (GB) EPL D	Feature	Value
Midth 42 mm Standard nominal flow rate 1200 l/min Pneumatic working port Sub-base, size 1 according to ISO 5599-1 G1/4 Operating voltage Via solenoid coil, to be ordered separately Operating pressure 2 bar10 bar Structural design Piston gate valve Et marking (see declaration of conformity) as per EU explosion protection directive (ATEX) ATEX category gas II 2G ATEX category for dust III 2D Type of ignition protection for gas Ex h III CT 4 Gb Type of ignition) protection for dust Ex h III CT 105°C Db Explosive ambient temperature 5°C = 1 ac = +40°C Explosion protection certification outside the EU EPL Db (GB) EPL Db (GB) Degree of protection Piece of protection With flow control option Salam Midth Midth Midmension 43 mm Exhaust air function Sealing principle Soft Mounting position Any Conforms to standard ISO 599-1 Manual override Detention Pilot-controlled Pilot cair supply port Internal Flow direction Non-reversible	Valve function	5/2, bistable, dominant
Standard nominal flow rate Preumatic working port Sub-base, size 1 according to ISO 5599-1 G1/4 Via solenoid coil, to be ordered separately Operating pressure 2 bar10 bar Structural design Piston gate valve CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust II 2D II 2D II 2D IV 4 Gb IV 90 of (ignition) protection for gas Ex h III C T105°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Degree of protection IP65 Nominal width 8 mm Width dimension 43 mm Exhaust air function Soft Mounting position Any Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting Flow direction Internal Flow direction Non-reversible	Actuation type	Electrical
Preumatic working port Sub-base, size 1 according to ISO 5599-1 G1/4 Operating voltage Via solenoid coil, to be ordered separately Deparating pressure 2 bar10 bar Structural design Piston gate valve EE marking (see declaration of conformity) JUKCA marking (see declaration of conformity) ATEX category gas II 2G ATEX category gas II 2D STEP COLUMN C	Width	42 mm
G1/4 Operating voltage Via solenoid coil, to be ordered separately Operating pressure 2 bar10 bar Piston gate valve CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust II 2D Sex h IIC T4 Gb Ex h IIC T4 Gb Explosive ambient temperature Explosive ambient temperature Explosive ambient temperature Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Degree of protection IP65 Nominal width 8 mm Width dimension Exhaust air function Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-1 Manual override SO code IP69 Type of control Pilot controlled Pilot air supply port Internal How direction Non-reversible	Standard nominal flow rate	1200 l/min
Deprating pressure 2 bar10 bar Structural design Piston gate valve as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust II 2D	Pneumatic working port	· _ ·
Structural design CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) as per EU explosion protection directive (ATEX) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust II 2D Eype of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature -5°C (= Ta (= +40°C) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Degree of protection IP65 Nominal width 8 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Conforms to standard Manual override EV Code Ip9 of control Pilot air supply port Internal How direction Non-reversible	Operating voltage	Via solenoid coil, to be ordered separately
as per EU explosion protection directive (ATEX) DUKCA marking (see declaration of conformity) ACEX category gas ATEX category gas ATEX category for dust Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature Explosive ambient temperature Explosion protection certification outside the EU Explosion protection Degree of protection With dimension Exhaust air function Sealing principle Mounting position Conforms to standard Manual override Type of control Pilot controlled Pilot air supply port Internal Flow direction II 2G Are C. to UK EX instructions II 2G Exh III C T10 Gb Exh III C T1	Operating pressure	2 bar10 bar
ACC. to UK EX instructions ACEX category gas II 2G ATEX category for dust II 2D	Structural design	Piston gate valve
ATEX category gas ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Poegree of protection IP65 Nominal width Width dimension Exhaust air function Sealing principle Mounting position Conforms to standard Manual override EXPL Gb (GB) Determine to standard Mon-reversible Determine to standard ISO 5599-1 Determine to standard ISO code Internal Flow direction Non-reversible	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
ATEX category for dust If yoe of ignition protection for gas Exh IIC T4 Gb Exp of (ignition) protection for dust Exh IIC T105°C Db Explosive ambient temperature Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) PPL Gb (GB) EPL Gb (GB) Pogree of protection IP65 Nominal width 8 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Conforms to standard Mounting position Any Conforms to standard Manual override Detenting via accessory Non-detenting SO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Ex h IIC T4 Gb Type of ignition protection for gas Ex h IIC T105°C Db Explosive ambient temperature Explosion protection certification outside the EU Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) EPL Gb (GB) Degree of protection Nominal width 8 mm Width dimension Exhaust air function With flow control option Sealing principle Soft Mounting position Conforms to standard Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot air supply port Internal Flow direction Non-reversible	ATEX category gas	II 2G
Explosive ambient temperature -5°C <= Ta <= +40°C Explosive ambient temperature -5°C <= Ta <= +40°C Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Per Gb (GB) Per Gb (GB) Rominal width 8 mm Width dimension 43 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Conforms to standard Manual override Manual override Detenting via accessory Non-detenting ISO 5599-1 Iso ode Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	ATEX category for dust	II 2D
Explosive ambient temperature -5°C <= Ta <= +40°C Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Degree of protection IP65 Nominal width 8 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot-controlled Internal Flow direction Porticipal is a certification in the protection in the principle in the protection in th	Type of ignition protection for gas	Ex h IIC T4 Gb
Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) PPL	Type of (ignition) protection for dust	Ex h IIIC T105°C Db
EPL Gb (GB) Degree of protection IP65 Nominal width 8 mm Width dimension 43 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot air supply port Internal Flow direction IP65 I Manual oversible IP65 I Manual oversible IP60 I Mon-reversible	Explosive ambient temperature	-5°C <= Ta <= +40°C
Nominal width 8 mm Width dimension 43 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	Explosion protection certification outside the EU	· /
Width dimension 43 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	Degree of protection	IP65
Exhaust air function Sealing principle Soft Mounting position Conforms to standard Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot-controlled Pilot air supply port Flow direction With flow control option Soft Any Detenting via accessory Non-detenting Internal Non-reversible	Nominal width	8 mm
Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	Width dimension	43 mm
Mounting position Conforms to standard ISO 5599-1 Manual override Detenting via accessory Non-detenting ISO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Any Detenting via accessory Non-detenting Internal Non-reversible	Exhaust air function	With flow control option
Conforms to standard Manual override Detenting via accessory Non-detenting SO code 169 Type of control Pilot-controlled Pilot air supply port Internal Non-reversible	Sealing principle	Soft
Manual override Detenting via accessory Non-detenting SO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	Mounting position	Any
Non-detenting ISO code 169 Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	Conforms to standard	ISO 5599-1
Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible	Manual override	
Pilot air supply port Internal Flow direction Non-reversible	ISO code	169
Flow direction Non-reversible	Type of control	Pilot-controlled
	Pilot air supply port	Internal
Lap Overlap	Flow direction	Non-reversible
	Lap	Overlap

Feature	Value
Changeover time	16 ms
Switching time changeover (dominant)	13 ms
Max. positive test pulse with 0 signal	2200 μs
Max. negative test pulse on 1 signal	3700 μs
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)
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C40 °C
Noise level	85 dB(A)
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C40 °C
Product weight	490 g
Electrical connection	Via F coil, to be ordered separately
Type of mounting	On sub-base With through-hole
Pilot air port 12	Sub-base, size 1 as per ISO 5599-1
Pilot air port 14	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 1	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 2	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 3	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 4	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 5	Sub-base, size 1 as per ISO 5599-1
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast aluminum