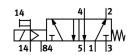
Air solenoid valve MFH-5-1/4-S-NPT Part number: 12618







General operating condition

Data sheet

Actuation type Electrical 30.5 mm Standard nominal flow rate 1000 l/min Pheumatic working port 1/4 NPT Operating voltage Via solenoid coil, to be ordered separately Operating pressure Operating pressure Operating pressure Operating pressure Obar 8 bar Structural design Reset method Mechanical spring Certification Cull us - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension 32 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled External Flow direction Non-reversible Symbol Op991024 Lap Underlap Underlap Underlap Underlap Underlap Underlap Underlap Underlap O 1.5 MPa 0.8 MPa Pilot pressure MPa D 4.49 l/sbar Switching time off O 9 ms Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Corrosion resistance class (CRC) 1 - Low corrosion stress	Feature	Value
Standard nominal flow rate 1000 l/min 1000 l	Valve function	5/2, monostable
Standard nominal flow rate Pneumatic working port 1/4 NPT Operating yoltage 0/ May 0.8 MPa Operating pressure 0 Deprating pressure 0 Deprating pressure 0 Deprating pressure 0 Dear 8 bar Structural design Plate seat Reset method Mechanical spring Certification c UL us - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension 32 mm Exhaust air function Soft Mounting position Any Manual override Detenting Pliot-controlled Pilot controlled Flow direction Non-reversible Symbol Goyp1024 Lap Underlap Pilot pressure MPa Dit pressure MPa Dit yold For Name Dit yold Cyalue 4.49 (/sbar Switching time off 0 pms Max. positive test pulse on 1 signal Max. negative test pulse on 1 signal Corrosion resistance class (CRC) 1 - Low corrosion stress	Actuation type	Electrical
Preumatic working port Operating voltage Via solenoid coil, to be ordered separately Operating pressure Operating pressure Oberating pressure Obar 8 Mar Structural design Plate seat Reset method Mechanical spring Certification Cut u.s - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function With flow control option Sealing principle Soft Mounting position Manual override Detenting Pilot-controlled Pilot air supply port External Flow direction Non-reversible Operating Pilot pressure MPa O.15 Mar 8 bar D-value O.19 C value Svitching time 9 ms Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal Max. perating medium Corpressed ir as per ISO 8573-1:2010 [7:4:4] Information no operating and pilot media Operation with oil flubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress	Width	30.5 mm
Operating voltage Via solenoid coil, to be ordered separately Operating pressure O MPa0.8 MPa Operating pressure O bar 8 bar Structural design Plate seat Reset method Mechanical spring Certification c UL us - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function With flow control option Sealing principle Soft Mounting position Manual override Pilot control Pilot air supply port External Flow direction Non-reversible Symbol O0991024 Llap Pilot pressure MPa O.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar Devalue O.19 C value 4.49 I/sbar Switching time off Om switching time 9 ms Max. positive test pulse with 0 signal Max. positive test pulse on 1 signal Corrosion resistance class (CRC) 1 - Low corrosion stress	Standard nominal flow rate	1000 l/min
Operating pressure Operating time Operating medium Operation with oil lubrication possible (required for further use) Operating medium Operation with oil lubrication possible (required for further use) Operating medium Operation with oil lubrication possible (required for further use) Operating medium Operating metium Oper	Pneumatic working port	1/4 NPT
Operating pressure Operating pressure Operating pressure Plate seat Reset method Mechanical spring Certification c UL us - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension 32 mm Exhaust air function Soft Mounting position Any Manual override Operating upper of control Pilot controlled Pilot controlled Pilot supply port External Flow direction Non-reversible Symbol Underlap Pilot pressure Devalue O.19 Civilue Soft O.19 Civilue Soft O.19 Civilue Soft O.19 Covilue Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress	Operating voltage	Via solenoid coil, to be ordered separately
Structural design Reset method	Operating pressure	0 MPa 0.8 MPa
Reset method Mechanical spring Certification c UL us - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension 32 mm Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol O0991024 Luap Underlap Dito pressure MPa Do 1.5 MPa 0.8 MPa Pilot pressure D-value D-val	Operating pressure	0 bar 8 bar
Certification c UL us - Recognized (OL) Degree of protection IP65 Nominal width 7 mm Width dimension 32 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 Symbol O0991024 Lap Underlap Pilot pressure MPa O.15 MPa 0.8 MPa Pilot pressure MPa D-to value A49 I/sbar Switching time off 29 ms On switching time Max. positive test pulse with 0 signal Max. positive test pulse on 1 signal 3700 µs Coll characteristics See solenoid coil, to be ordered separately Corrosion resistance class (CRC) 1- Low corrosion stress	Structural design	Plate seat
Degree of protection IP65 Nominal width 7 mm Width dimension 32 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 Symbol 00991024 Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure 0.19 C value 4.49 I/sbar Switching time off 0.9 ms Max. positive test pulse with 0 signal 2200 µs Max. negative test pulse on 1 signal 3700 µs Corporating medium Compressed frequired for further use) Corrosion resistance class (CRC) 1-Low corrosion stress	Reset method	Mechanical spring
Nominal width 7 mm Width dimension 32 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 Symbol 00991024 Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 0.9 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 Corrosion resistance class (CRC) 1-Low corrosion stress	Certification	c UL us - Recognized (OL)
With dimension 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 Symbol O991024 Lap Underlap Pilot pressure MPa O.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar b-value C value 4.49 I/sbar Switching time off On switching time Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics See solenoid coil, to be ordered separately 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	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 Symbol Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure b-value 0.19 C value 4.49 I/sbar Switching time off On switching time Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Corrosion resistance class (CRC) 1- Low corrosion stress	Nominal width	7 mm
Sealing principle Mounting position Any Manual override Detenting Pilot-controlled Pilot controlled Pilot air supply port External Flow direction Non-reversible Symbol Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics Departing medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Orrosion resistance class (CRC) 1 - Low corrosion stress	Width dimension	32 mm
Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol 00991024 Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 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 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	Exhaust air function	With flow control option
Manual override Type of control Pilot air supply port External Flow direction Non-reversible Symbol O0991024 Lap Underlap Pilot pressure MPa O.15 MPa 0.8 MPa Pilot pressure D-value O.19 C value	Sealing principle	Soft
Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol O0991024 Lap Underlap Underlap Pilot pressure MPa 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics See solenoid coil, to be ordered separately 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	Mounting position	Any
Filot air supply port External Non-reversible Symbol 00991024 Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics See solenoid coil, to be ordered separately Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Corrosion resistance class (CRC) 1 - Low corrosion stress	Manual override	Detenting
Flow direction Non-reversible Symbol 00991024 Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 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 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	Type of control	Pilot-controlled
Symbol 00991024 Lap Underlap Pilot pressure MPa 0.15 MPa 0.8 MPa Pilot pressure 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 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 Operating medium Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1- Low corrosion stress	Pilot air supply port	External
Underlap O.15 MPa 0.8 MPa Pilot pressure MPa O.15 MPa 0.8 MPa 1.5 bar 8 bar b-value O.19 C value 4.49 l/sbar Switching time off On switching time 9 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics See solenoid coil, to be ordered separately Operating medium Information on operating and pilot media Corrosion resistance class (CRC) Underlap 0.15 MPa 0.8 MPa 0.19 4.49 l/sbar 29 ms 29 ms 200 µs 3700 µs Compressed air as per ISO 8573-1:2010 [7:4:4] Operation with oil lubrication possible (required for further use)	Flow direction	Non-reversible
Pilot pressure MPa 0.15 MPa 0.8 MPa 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics See solenoid coil, to be ordered separately Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Corrosion resistance class (CRC) 0.19 4.49 l/sbar 29 ms 3700 µs 2200 µs 3700 µs 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) 1 - Low corrosion stress	Symbol	00991024
Pilot pressure 1.5 bar 8 bar b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 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 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) 1 - Low corrosion stress	Lap	Underlap
b-value 0.19 C value 4.49 l/sbar Switching time off 29 ms On switching time 9 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 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	Pilot pressure MPa	0.15 MPa 0.8 MPa
C value 4.49 l/sbar Switching time off 29 ms On switching time 9 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 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	Pilot pressure	1.5 bar 8 bar
Switching time off 29 ms On switching time 9 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 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	b-value	0.19
On switching time 9 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 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	C value	4.49 l/sbar
Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal See solenoid coil, to be ordered separately Coil characteristics Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Corrosion resistance class (CRC) 1 - Low corrosion stress	Switching time off	29 ms
Max. negative test pulse on 1 signal Coil characteristics See solenoid coil, to be ordered separately 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	On switching time	9 ms
Coil characteristics See solenoid coil, to be ordered separately 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	Max. positive test pulse with 0 signal	2200 μs
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) 1 - Low corrosion stress	Max. negative test pulse on 1 signal	3700 μs
Information on operating and pilot media Operation with oil lubrication possible (required for further use) 1 - Low corrosion stress	Coil characteristics	See solenoid coil, to be ordered separately
Corrosion resistance class (CRC) 1 - Low corrosion stress	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)
ARS (PWIS) conformity VDMA2424 P2 I	Corrosion resistance class (CRC)	1 - Low corrosion stress
VDMAZ4304-DZ-L	LABS (PWIS) conformity	VDMA24364-B2-L

Feature	Value
Storage temperature	-20 ℃ 60 ℃
Temperature of medium	-10 ℃ 60 ℃
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C 40 °C
Product weight	290 g
Electrical connection	Via F coil, to be ordered separately
Type of mounting	Optionally: On terminal strip With through-hole
Pilot exhaust air port 84	M5
Pilot air port 14	10-32 UNF-2B
Pneumatic connection 1	1/4 NPT
Pneumatic connection 2	1/4 NPT
Pneumatic connection 3	1/4 NPT
Pneumatic connection 4	1/4 NPT
Pneumatic connection 5	1/4 NPT
Note on materials	RoHS-compliant
Seals material	NBR TPE-U(PU)
Housing material	Die-cast aluminum