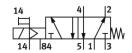
## Air solenoid valve MFH-5-1/4-S-NPT Part number: 12618

**FESTO** 





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  Underlap  O 1.5 MPa 0.8 MPa  Pilot pressure MPa  D 4.49 l/sbar  Switching time  9 ms  Max. positive test pulse with 0 signal  Any up (Compressed air as per ISO 8873-1:2010 [7:4:4]  Information no operating and pilot media  Operation method is possible (required for further use)  Cormprosed air as per ISO 8873-1:2010 [7:4:4]  Information no operating and pilot media  Corprossion 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 Pilot of control Symbol Gomerous MPa Underlap Pilot pressure MPa Dito pressure MPa Dito pressure MPa Dito pressure MPa Divide Gomerous MP	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 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 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)	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 you will be a mean of the property	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  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Operation 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 °C 60 °C
Temperature of medium	-10 °C 60 °C
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	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