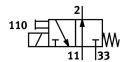
Air solenoid valve MHA1-M4H-3/20-0,6-HC Part number: 197018







General operating condition

Data sheet

Actuation type Electrical	Feature	Value
Standard nominal flow rate 10 I/min Standard nominal flow rate 10 I/min Sub-base Operating voltage SV DC Operating pressure Obar 6 bar Operating pressure Operating attention pring In the second pring In the second pring Operating pressure Operating value pressure Operating value pressure Operating value pressure Operating pressure Operating value pressure Operating pressure Operating value pressure Operating two developments In the second pressure Operating pressure Operating medium Operating m	Valve function	3/2, open, monostable
Standard nominal flow rate 10 1/min Pneumatic working port Sub-base Operating yoltage 57 DC Operating pressure 0 MPa 0.6 MPa Operating pressure 0 Obar 6 bar Operating pressure 0 ops 87 psi Structural design Poppet valve with return spring Reset method Mechanical spring Degree of protection PP40 Certification CUL us - Recognized (OL) Certificate issuing authority UL MH19482 Nominal width 0.7 mm Width dimension 10 mm Exhaust air function Mithematical spring Description Sealing principle Soft Mounting position Any Manual override Non-detenting Uppe of control Flow direction Direct Flow direction Non-reversible Symbol 00991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 4/-10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Actuation type	Electrical
Preumatic working port Operating voltage SV DC Operating pressure Operating pressure Oberating pressure Operating view the teurn spring Operating view the teurn spring Operating pressure Operating medium Operating medium Operating medium Operating pressure Operating medium Operating	Width	10 mm
Operating voltage	Standard nominal flow rate	10 l/min
Operating pressure Operating medium Operating pressure Operating pressure Operating pressure Operating medium Operating medium Operating pressure Operating medium Operating medi	Pneumatic working port	Sub-base
Operating pressure Operating medium Operating pressure Operating pressure Operating pressure Operating medium Operatin	Operating voltage	5V DC
Operating pressure Operating of protection IP40 Certification Certification Cult us - Recognized (OL) Certificate issuing authority UL MH19482 Nominal width On T mm Width dimension ID mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Flow direction Non-reversible Symbol Operating besition ID Label Lap Underlap Note on forced dynamization Switching frequency Underlap Switching frequency On switching time On switching time On switching time On switching time Duty cycle Electrical power consumption Lype of control Permissible voltage fluctuations +/- 10 % Operating medium Operating medium Operating medium Operating medium Operating medium Operating medium Operating medium It would never the treatment principle Amechanical spring Operating medium Op	Operating pressure	0 MPa 0.6 MPa
Structural design Poppet valve with return spring Reset method Mechanical spring Degree of protection IP40 Certification c UL us - Recognized (OL) Certificate issuing authority UL MH19482 Nominal width 0.7 mm Width dimension 10 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Flow direction Non-reversible Symbol 00991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time On switching time Duty cycle Electrical power consumption Permissible voltage fluctuations +/- 10 % Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating pressure	0 bar 6 bar
Reset method Mechanical spring Degree of protection IP40 Certification c UL us - Recognized (OL) Certificate issuing authority UL MH19482 Nominal width 0.7 mm Width dimension 10 mm Exhaust air function Soft Mounting position Any Manual override Non-detenting Type of control Direct Flow direction Non-reversible Symbol 00991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 0 ms witching time Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations Position Mendal position IP (Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating pressure	0 psi 87 psi
Degree of protection Certification Certificate issuing authority Nominal width O.7 mm Width dimension Exhaust air function Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Flow direction Non-reversible Symbol Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency Switching frequency Switching time off On switching time Duty cycle Electrical power consumption 1 W Coil characteristics Flow directions Non-geversible Switching time Duty Cycle Loo% Certification Compressed air as per ISO 8573-1:2010 [7:4:4]	Structural design	Poppet valve with return spring
Certification c UL us - Recognized (OL) Certificate issuing authority UL MH19482 Nominal width 0.7 mm Width dimension 10 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Direct Flow direction Non-reversible Symbol 00991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching friequency 20 Hz Switching time off 4 ms On switching time On switching time Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations 1.5 de Tour Service III of Traction Compressed air as per ISO 8573-1:2010 [7:4:4]	Reset method	Mechanical spring
Certificate issuing authority Nominal width O.7 mm Width dimension Exhaust air function Sealing principle Soft Mounting position Manual override Type of control Flow direction Direct Non-reversible Symbol Oosy91322 Valve position ID Label Lap Underlap Note on forced dynamization Max. switching frequency Switching tired end On switching time off On switching time On switching time Duty cycle Electrical power consumption Coil characteristics Permissible voltage fluctuations H. 10 % Compressed air as per ISO 8573-1:2010 [7:4:4]	Degree of protection	IP40
Nominal width O.7 mm Width dimension Exhaust air function Sealing principle Mounting position Manual override Type of control Flow direction Non-reversible Symbol Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency Switching frequency Switching time off On switching time Duty cycle Electrical power consumption Low Hore sealing sealing and sealing se	Certification	c UL us - Recognized (OL)
Width dimension 10 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Direct Flow direction Non-reversible Symbol 00991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations Vinth flow control option With flow control option With flow control option Soft Any Any Many Non-detenting Direct Non-reversible Son-reversible Vonge1322 Underlap Underlap Underlap Valve page 1 Label Val	Certificate issuing authority	UL MH19482
Exhaust air function Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Flow direction Symbol Operating frequency 20 Hz Switching frequency 4 ms Duty cycle Duty cycle Electrical power consumption Divert With flow control option Soft Any Mith flow control option Soft Any Non-detenting Non-detenting Non-detenting Non-reversible Somon-reversible Operating frequency Duperating frequency Switching frequency at least once a week Ams On switching time off Ams On with flow control option Any Non-detenting Duperating frequency Direct Non-detenting Non-reversible Somon-reversible Switching Application Switching frequency at least once a week Ams On switching time off Ams On switching time Ams Duty cycle Duty cycle Compressed air as per ISO 8573-1:2010 [7:4:4]	Nominal width	0.7 mm
Scaling principle Mounting position Any Manual override Non-detenting Type of control Direct Flow direction Non-reversible Symbol Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency Switching frequency 20 Hz Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption Liby Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations Any Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-reversible No	Width dimension	10 mm
Mounting position Manual override Non-detenting Type of control Direct Flow direction Non-reversible Symbol Oo991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency Switching time off 4 ms On switching time 4 ms Duty cycle Electrical power consumption Label 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations Any Non-detenting Non-reversible Oo991322 Valve Underlap Valve Va	Exhaust air function	With flow control option
Manual override Type of control Direct Flow direction Non-reversible Symbol O0991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency 20 Hz Switching time off 4 ms On switching time Duty cycle Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations One month of the sum o	Sealing principle	Soft
Type of control Flow direction Non-reversible Symbol O0991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Mounting position	Any
Flow direction Non-reversible Oog91322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Non-reversible Non-reversible Non-reversible Abon-reversible Switching 4 ms Underlap Switching frequency at least once a week 4 ms 5 W DC: 1.0 W	Manual override	Non-detenting
Symbol 00991322 Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time On switching time 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Type of control	Direct
Valve position ID Label Lap Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Flow direction	Non-reversible
Underlap Note on forced dynamization Switching frequency at least once a week Max. switching frequency 20 Hz Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Underlap Underlap Switching frequency at least once a week 4 ms 5 V DC: 10 W Compressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991322
Note on forced dynamization Switching frequency at least once a week Max. switching frequency Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Switching frequency at least once a week 4 ms Compressed air as per ISO 8573-1:2010 [7:4:4]	Valve position ID	Label
Max. switching frequency Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Lap	Underlap
Switching time off 4 ms On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Note on forced dynamization	Switching frequency at least once a week
On switching time 4 ms Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. switching frequency	20 Hz
Duty cycle 100% Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	4 ms
Electrical power consumption 1 W Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	4 ms
Coil characteristics 5 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Duty cycle	100%
Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Electrical power consumption	1 W
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	5 V DC: 1.0 W
	Permissible voltage fluctuations	+/-10%
Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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)

Feature	Value
Vibration resistance	Transport application test with severity level 2 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
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Storage temperature	-20 °C 60 °C
Temperature of medium	-5 ℃ 40 ℃
Ambient temperature	-5 ℃ 40 ℃
Product weight	10 g
Electrical connection	Plug
Type of mounting	On sub-base With through-hole
Pneumatic connection 11	Sub-base
Pneumatic connection 2	Sub-base
Pneumatic connection 33	Sub-base
Note on materials	RoHS-compliant
Seals material	FPM HNBR NBR
Housing material	PA-reinforced PPS-reinforced