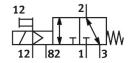
Solenoid valve MFH-3-3/4-S Part number: 11968







Data sheet

General operating condition

Type of actuation Electric Construction width Standard nominal flow rate (standardised to DIN 1343) 7500 l/min pneumatic working port Operating voltage Via solenoid coil, must be ordered separately Operating pressure -0.095 MPa 1 MPa Operating pressure -0.95 MPa 1 MPa Operating pressure -0.19 Mma Operating pressure -0.19 Mma Operating pressure -0.10 MPa 0 MPa Operating pressure -0.1 MPa 0 MPa Operating medium -0.20 Mpa 8 Mpa -0.20 Mpa Operating medium -0.20 Mpa 8 Mpa 8 Mpa 8 Mpa -0.20 Mpa 8 Mp	Feature	Value
Construction width Standard nominal flow rate (standardised to DIN 1343) 7500 l/min Poneumatic working port G3/4 Operating yoldinge Via solenoid coil, must be ordered separately Operating pressure -0.095 MPa 1 MPa Operating pressure -0.95 bar 10 bar Operating pressure -0.95 MPa 1 MPa Operating pressure -0.95 MPa 1 MPa Operating pressure -0.95 MPa 10 bar Operating operating Operating pressure -0.95 MPa 10 bar Operating via pressure -0.10 MPa 0.8 MPa Operating time on -0.20 Mpa 0.8 MPa Operating medium -0.20 µs Compressed air to ISO 8573-1:2010 [7-4:4] Note on operating medium -0.20 µs Corrosion resistance class CRC -0.00 PC -0.00	Valve function	3/2-way, closed, monostable
Standard nominal flow rate (standardised to DIN 1343) pneumatic working port G3/4 Operating yottage Via solenoid coil, must be ordered separately Operating pressure -0.095 MPa 1 MPa Operating pressure Poppet seat Type of reset Mechanical spring Deening principle Soft Mounting position Manual override Detenting Pilot air supply External Flow direction Reversible Symbol Operating pressure -0.99 2879 In underlap Pilot pressure 1 bar 8 Bar Switching time on Max. positive test pulse with 0 signal Corrosion resistance class CRC Lass (PMIS) conformity V DMA24364 BIL 182-L Storage temperature -10 °C 60 °C Media temperature Pilot accused separately Operating medium Compressed Low Corrosion stress Labs (PMIS) conformity V DMA24364 BIL 182-L Storage temperature -10 °C 60 °C Media temperature Media temperature Posp Sprace Posp Supple Corrosion resistance class CRC Low Corrosion stress Labs (PMIS) conformity V DMA24364 BIL 182-L Storage temperature -10 °C 60 °C Media temperature	Type of actuation	Electric
pneumatic working port Operating voltage Via solenoid coil, must be ordered separately Operating pressure Operating op	Construction width	68 mm
Operating voltage Operating pressure Poppet seat Type of reset Mechanical spring Approval C UL us - Recognized (Ot) Degree of protection IP65 Nominal size IP mm Exhaust-air function Sealing principle Soft Mounting position Mounting position Mounting position Mounting position Mounting position Pilot actuated IPlot air supply External Flow direction Reversible Symbol Operating medium On 1MPa 0.8 MPa Pilot pressure I bar 8 bar Switching time off 32 ms Switching time on Max. positive test pulse with 0 signal Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC I - Low corrosion stress VDMA24364-81/B2-L Storage temperature VDMA24364-81/B2-L Storage temperature VDMA24364-81/B2-L Storage temperature VDMA24364-81/B2-L Media temperature	Standard nominal flow rate (standardised to DIN 1343)	7500 l/min
Operating pressure Operating operation	pneumatic working port	G3/4
Operating pressure Design Poppet seat Wechanical spring Approval CUL us - Recognized (OL) Degree of protection P65 Nominal size 19 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position Mounting position Manual override Detenting Pilot acruated Pilot air supply External Flow direction Reversible Symbol Operating Underlap Pilot pressure 0.1 MPa0.8 MPa Pilot pressure 1 bar 8 bar Switching time off Switching time on Max. positive test pulse with 0 signal Characteristic coil data Operating medium Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA23464-B1/B2-L Storage temperature Media temperature Media temperature Media temperature Media temperature 10	Operating voltage	Via solenoid coil, must be ordered separately
Peppet seat Type of reset Mechanical spring Cut us - Recognized (OL) Degree of protection IP65 Nominal size 19 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position Optional Manual override Detenting Pilot air supply External Flow direction Reversible Symbol O0992879 Idap Underlap Pilot pressure 1 bar 8 bar Switching time off Switching time on Max. positive test pulse with 0 signal Operating medium Corrosion resistance class CRC LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature Pege protection Cut Use - Recognized (OL) We cut - Recognized (OL) Pessure Out a Reversible Out a R	Operating pressure	-0.095 MPa 1 MPa
Type of reset Approval C UL us - Recognized (OL) Degree of protection IP65 Nominal size 19 mm Exhaust-air function Sealing principle Soft Mounting position Manual override Type of piloting Pilot actuated Pilot air supply External Flow direction Symbol Junderlap Pilot pressure 1 bar 8 bar Switching time off Switching time on Max. positive test pulse with 0 signal Characteristic coil data Operating medium Corrosion resistance class CRC LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature Meth his flow control option Pi65 ULu s - Recognized (OL) Pi65 OL U s - Recognized (OL) Pi65 Nechanical spring Optional Pi65 Nechanical spring Optional Pi65 Neth flow control option Pi65 Soft Optional Pilot actuated Pilot actua	Operating pressure	-0.95 bar 10 bar
Approval c UL us - Recognized (OL) Degree of protection IP65 Nominal size 19 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position optional Manual override Detenting Type of piloting Pilot actuated Pilot air supply External Flow direction Reversible Symbol 00992879 Iap Underlap Pilot pressure 0.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal 2200 μs Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed ir to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress VDMA24364-B1/B2-L Storage temperature - 20 °C 60 °C Media temperature -10 °C 60 °C Media temperature -10 °C 60 °C	Design	Poppet seat
Degree of protection IP65 Nominal size Exhaust-air function With flow control option Sealing principle Soft Mounting position Manual override Detenting Pilot actuated Pilot actuated Pilot arctuated Pilot pressure 1 bar 8 bar Switching time off Switching time on Max. positive test pulse with 0 signal Characteristic coil data Operating medium Corrosion resistance class CRC LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature Pilot control option With flow control option With flow control option Soft 919 mm With flow control option Soft 920 mm Soft 10 mm 11 mm 12 mm 13 mm 14 mm 15 mm 16 mm 17 mm 18 mm	Type of reset	Mechanical spring
Nominal size Exhaust-air function With flow control option Sealing principle Soft Mounting position Manual override Type of piloting Pilot actuated Pilot actuated Pilot air supply External Flow direction Reversible Symbol 100992879 Iap Underlap Pilot pressure 0.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C Media temperature -10 °C 60 °C	Approval	c UL us - Recognized (OL)
Exhaust-air function Sealing principle Soft Mounting position Manual override Type of piloting Pilot actuated Pilot air supply External Flow direction Symbol 100992879 1ap Underlap Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time off 32 ms Switching time on Max. positive test pulse with 0 signal Characteristic coil data Operating medium Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress Wedia temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Degree of protection	IP65
Sealing principle Mounting position Manual override Type of piloting Pilot actuated Pilot air supply External Flow direction Symbol 100992879 Ilap Underlap Pilot pressure 1 bar 8 bar Switching time off Switching time on Max. positive test pulse with 0 signal Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress Media temperature -20 °C 60 °C Media temperature -10 °C 60 °C Media temperature -20 °C 60 °C Media temperature	Nominal size	19 mm
Mounting position optional Manual override Detenting Type of piloting Pilot actuated Pilot air supply External Flow direction Reversible Symbol 00992879 Iap Underlap Pilot pressure 0.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal 2200 μs Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 · Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Exhaust-air function	With flow control option
Manual override Detenting Type of piloting Pilot actuated Pilot air supply External Flow direction Reversible Symbol 00992879 Iap Underlap Pilot pressure 0.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal 2200 μs Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 · Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Sealing principle	Soft
Pilot actuated Pilot air supply External Flow direction Reversible Symbol O0992879 Ilap Underlap Pilot pressure O.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on Max. positive test pulse with 0 signal Characteristic coil data Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Mounting position	optional
Filot air supply External Reversible Symbol O9992879 Iap Underlap Pilot pressure O.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on Max. positive test pulse with 0 signal Characteristic coil data Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Manual override	Detenting
Flow direction Symbol O0992879 Iap Underlap Underlap Pilot pressure O.1 MPa 0.8 MPa 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal Characteristic coil data Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Type of piloting	Pilot actuated
Symbol lap Underlap Underlap Pilot pressure 0.1 MPa 0.8 MPa 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal Characteristic coil data Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Pilot air supply	External
Underlap	Flow direction	Reversible
Pilot pressure 0.1 MPa 0.8 MPa Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal Characteristic coil data See solenoid coil, to be ordered separately Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (în which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Symbol	00992879
Pilot pressure 1 bar 8 bar Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal 2200 µs Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	lap	Underlap
Switching time off 32 ms Switching time on 36 ms Max. positive test pulse with 0 signal Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Pilot pressure	0.1 MPa 0.8 MPa
Switching time on 36 ms Max. positive test pulse with 0 signal 2200 µs Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Pilot pressure	1 bar 8 bar
Max. positive test pulse with 0 signal Characteristic coil data See solenoid coil, to be ordered separately Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Switching time off	32 ms
Characteristic coil data See solenoid coil, to be ordered separately Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Switching time on	36 ms
Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Max. positive test pulse with 0 signal	2200 μs
Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Characteristic coil data	See solenoid coil, to be ordered separately
always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Note on operating and pilot medium	
Storage temperature -20 °C 60 °C Media temperature -10 °C 60 °C	Corrosion resistance class CRC	1 - Low corrosion stress
Media temperature -10 °C 60 °C	LABS (PWIS) conformity	VDMA24364-B1/B2-L
'	Storage temperature	-20 °C 60 °C
Pilot medium Compressed air to ISO 8573-1:2010 [7:4:4]	Media temperature	-10 °C 60 °C
	Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]

Feature	Value
Ambient temperature	-5 ℃ 40 ℃
Product weight	1260 g
Electrical connection	Via F coil, to be ordered separately
Type of mounting	Either: On manifold rail With through-hole
Pilot exhaust port 82	M5
Pilot air port 12	G1/8
Pneumatic connection, port 1	G3/4
Pneumatic connection, port 2	G3/4
Pneumatic connection, port 3	G3/4
Note on materials	RoHS-compliant
Material seals	NBR
Material housing	Die-cast aluminium