

Series MS01

- MS01-AL test block, variant II, with 5/2-directional valve
- subbase made of Die-cast aluminum
- permanent cleaning pressure



Grid dimension	27,1 mm
Standards	ISO 15407-1 26 mm
Working pressure min./max.	4 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 0,1 mg/m³
DC operating voltage	24 V
Voltage tolerance DC	-10% / +10%
Protection class With valve plug connector	IP65
Duty cycle	100 %
Electrical connection for valve	Plug, form C
Electr. connection	Plug, M12, 5-pin
Valve voltage tolerance	-10% / +10%
Weight	See table below

Technical data

Part No.	Version	port pneumatic	input 1	Exhaust R1	Output 4	pilot control R2 exhaust
R412011191	1x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011192	2x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011193	3x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011194	4x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011195	5x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011196	6x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011197	7x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011198	8x	according to ISO 228-1	G 3/8	G 1/8	G 1/4	G 1/8
R412011199	1x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011200	2x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011201	3x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011202	4x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011203	5x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011204	6x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011205	7x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT
R412011206	8x	-	3/8 NPT	1/8 NPT	1/4 NPT	1/8 NPT

Part No.	Min./max. detection distance	Length	Weight
R412011191	0,01 ... 0,3 mm	93,1 mm	1,64 kg
R412011192	0,01 ... 0,3 mm	120,3 mm	2,12 kg
R412011193	0,01 ... 0,3 mm	147,4 mm	2,6 kg
R412011194	0,01 ... 0,3 mm	174,5 mm	3,07 kg

Part No.	Min./max. detection distance	Length	Weight
R412011195	0,01 ... 0,3 mm	201,6 mm	3,55 kg
R412011196	0,01 ... 0,3 mm	228,7 mm	4,03 kg
R412011197	0,01 ... 0,3 mm	255,8 mm	4,51 kg
R412011198	0,01 ... 0,3 mm	282,9 mm	4,98 kg
R412011199	0,01 ... 0,3 mm	93,1 mm	1,64 kg
R412011200	0,01 ... 0,3 mm	120,3 mm	2,12 kg
R412011201	0,01 ... 0,3 mm	147,4 mm	2,6 kg
R412011202	0,01 ... 0,3 mm	174,5 mm	3,07 kg
R412011203	0,01 ... 0,3 mm	201,6 mm	3,55 kg
R412011204	0,01 ... 0,3 mm	228,7 mm	4,03 kg
R412011205	0,01 ... 0,3 mm	255,8 mm	4,51 kg
R412011206	0,01 ... 0,3 mm	282,9 mm	4,98 kg

The detection distance is based on one measuring point per test module and depends on the operating conditions. For more information, see operating instructions.

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

The pressure regulator is preset at 3 bar .

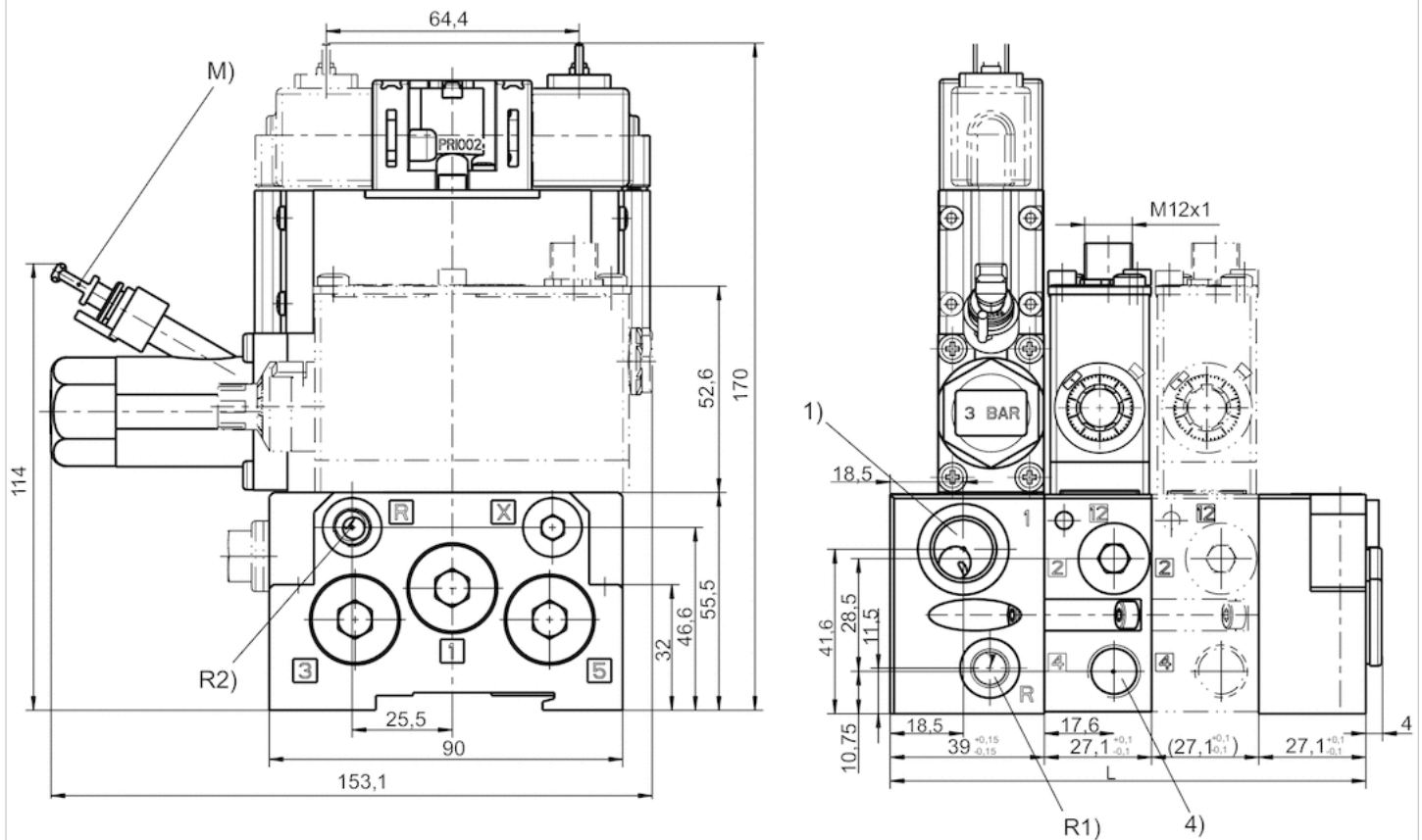
Expansion options available for pilot valves.

Technical information

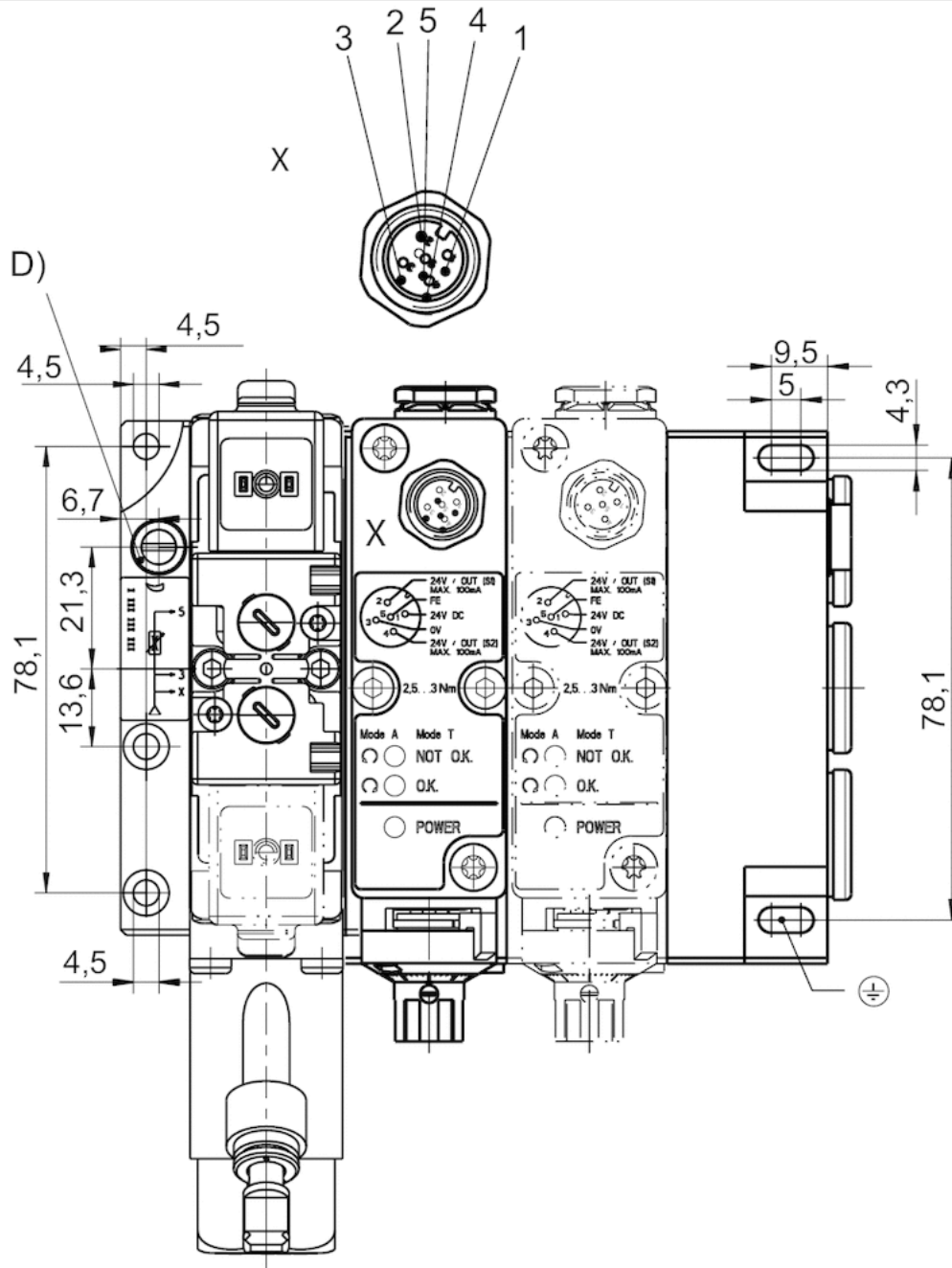
Material	
End plates	Aluminum
Seal	Acrylonitrile butadiene rubber
Subbase	Die-cast aluminum

Dimensions

Dimensions



- 1) Operating pressure
- 4) Port 4 (to nozzle)
- R1) Test module exhaust/sealing air connection (max. 1 bar)
- R2) Pilot control exhaust
- M) Push-in fitting for plastic tubing Ø 6x1 of the pressure gauge
- L = length



D = Throttle (cleaning pressure)

M12 contact assignment:

contact 1: 24 V DC

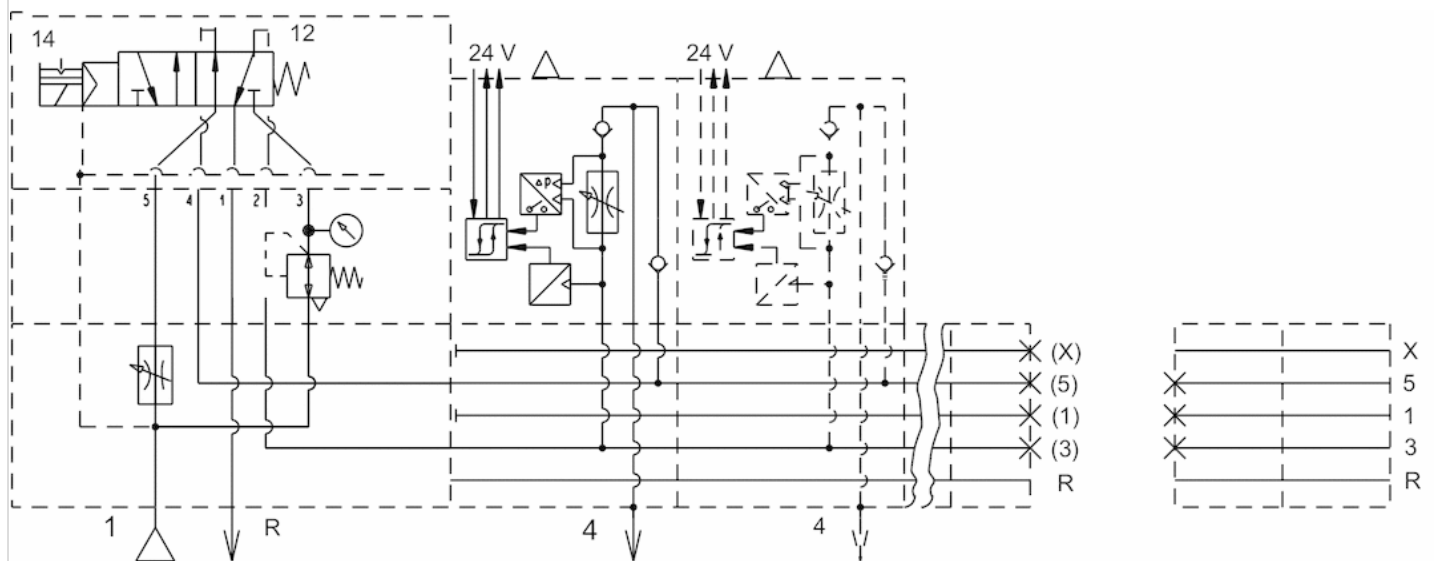
contact 2: output signal 24 V DC, S1 (working pressure), max. 100 mA

contact 3: 0 V

contact 4: output signal 24 V DC, S2 (testing), max. 100 mA

contact 5: FE

Circuit diagram



Valve side 14: test pressure

Port 4: connection nozzle

valve side 12: cleaning pressure

port R: exhaust (see dimensions for R1 and R2)

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