

# Filter regulator MS9-LFR

Part number: 562531

FESTO



Exemplary representation

 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size	9
Series	MS
Actuator lock	Rotary knob with detent Rotary knob with integrated lock can be closed with accessories
Mounting position	Vertical +/-5°
Grade of filtration	5 µm ... 40 µm
Condensate drain	Fully automatic, electrically actuated Manual, rotating Semi-automatic
Design	Directly actuated filter diaphragm regulator Piloted filter diaphragm regulator
Max. condensate volume	220 ml
Controller function	Output pressure constant With primary pressure compensation With secondary exhausting With return flow function Without secondary exhaust
Degree of condensate separation	>75 %
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	Prepared for G1/4 Prepared for G1/8 Red/green scale With pressure sensor With pressure gauge with gear indicator
Operating pressure	1 bar ... 20 bar
Pressure regulation range	0.5 bar ... 16 bar
Max. pressure hysteresis	0.4 bar
Max. standard flow rate	24000 l/min
Standard nominal flow rate (standardised to DIN 1343)	10000 l/min ... 24000 l/min
Approval	c UL us - Recognised (Oil)
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)

Feature	Value
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T6 Gb X
Explosion ignition protection type for dust	Ex h IIIC T60°C Db X
Explosion ambient temperature	-10°C ≤ Ta ≤ +60°C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:-] Inert gas
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required) Lubricated operation not possible
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 7 according to ISO 14644-1
Storage temperature	-10 °C ... 60 °C
Air purity class at output	Compressed air to ISO 8573-1:2010 [6:4:4] Compressed air to ISO 8573-1:2010 [7:4:4]
Media temperature	-10 °C ... 60 °C
Ambient temperature	-10 °C ... 60 °C
Pore size	5 µm ... 40 µm
Product weight	2400 g ... 2800 g
Type of mounting	With accessories
Material covering	Reinforced PA
Material spin disc	POM
Material filter carrier	POM
Note on materials	RoHS compliant
Material sub-base	Die-cast aluminium
Material mounting bracket	Die-cast aluminium
Material filter	Packaging unit
Material housing	Die-cast aluminium
Material module connector	Die-cast aluminium
Material membrane	NBR
Material bowl	Wrought aluminium alloy
Material cup seal	NBR
Material screen	Process automation
Material separating plate	POM
Material valve stem	Wrought aluminium alloy NBR POM