

Precision pressure regulator MS6-LRP

Part number: 538028

FESTO



Data sheet

Feature	Value
Size	6
Series	MS
Actuator lock	Rotary knob with detent Rotary knob with integrated lock can be closed with accessories
Mounting position	Any
Structural design	Pilot-controlled precision diaphragm regulator Pilot-controlled piston control valve
Controller function	Constant output pressure With secondary exhausting
Pressure gauge	Set up for G1/4 Set up for G1/8 With pressure sensor with pressure gauge With switching indicator
Operating pressure	0.1 MPa...1.4 MPa 1 bar...14 bar
Pressure regulation range	0.05 bar...12 bar
Max. pressure hysteresis	0.02 bar...0.05 bar
Flow rate of secondary venting	220 l/min...900 l/min
Normal nominal flow rate (normalized to DIN 1343)	800 l/min...9000 l/min
DC operating voltage range	21.6 V...26.4 V
Max. electrical power consumption	4.2 W
Max. current consumption	0.16 A
Nominal operating voltage DC	24 V
Residual ripple	10%
Analog input signal range	0 - 10 V 4 - 20 mA
Certification	c UL us - recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC acc. to UK EX instructions To UK RoHS instructions

Feature	Value
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion prevention and 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 for dust	II 2D
Type of ignition protection for gas	Ex h IIC T6 Gb X
Type of (ignition) protection for dust	Ex h IIIC T60°C Db X
Explosive ambient temperature	-10°C ≤ Ta ≤ +60°C
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gases
Information on operating and pilot media	Ester oil < 0.1mg/m³, according to ISO 8573-1:2010 [:::2] Operation with oil lubrication not possible
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-10 °C...60 °C
Temperature of medium	-10 °C...60 °C
Ambient temperature	-10 °C...60 °C
Product weight	800 g...1120 g
Type of mounting	Alternatively: Front panel mounting In-line installation With accessories
Pilot air port 12	G1/8 1/8 NPT
Pneumatic connection 1	G1/4 G3/8 G1/2 G3/4 1/4 NPT 3/8 NPT 1/2 NPT 3/4 NPT
Pneumatic connection 2	G1/4 G3/8 G1/2 G3/4 1/4 NPT 3/8 NPT 1/2 NPT 3/4 NPT
Pneumatic connection 3	G1/4
Note on materials	RoHS compliant
Seals material	NBR
Housing material	Aluminum