Precision pressure regulator
MS6-LRPB

Part number: 535007
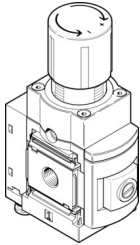
Data sheet

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	Outlet pressure constant With secondary exhausting
Pressure gauge	G1/4 prepared G1/8 prepared with pressure sensor with pressure gauge with switch 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
Standard nominal flow rate	1600 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 T60ºC Db X
Explosive ambient temperature	-10ºC <= Ta <= +60ºC
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas
Information on operating and pilot media	Operation with oil lubrication not possible
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-10 ºC...60 ºC
Temperature of medium	-10 ºC...60 ºC
Ambient temperature	-10 ºC...60 ºC
Product weight	800 g...1120 g
Type of mounting	Front panel mounting Line installation With accessories Optionally:
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	G1/2 1/2 NPT QS-8 QS-10 QS-3/8
Pneumatic connection 3	G1/4
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Aluminum