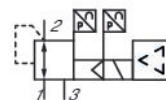


E/P pressure regulator, Series AV03-EP

R414007383

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Series AV03-EP



Technical data

Type

For fieldbus connection

Display: LED

Min. regulation range

0.5 bar

Max. regulation range

10 bar

Min. working pressure

0 bar

Max. working pressure

11 bar

Hysteresis

< 0,05 bar

Repetitive precision

< 0,04 bar

Medium

Compressed air

Min. ambient temperature

-10 °C

Max. ambient temperature

60 °C

Min. medium temperature

-10 °C

Max. medium temperature

60 °C

Operational voltage DC

24 V

Max. current consumption

120 mA

Protection class

IP65

Max. particle size

40 µm

Min. oil content of compressed air

0 mg/m³

Max. oil content of compressed air

5 mg/m³

Type

Piloted pressure regulator

E/P pressure regulator, Series AV03-EP

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Mounting orientation	Any
Pilot control exhaust	with directional pilot air exhaust
Industry	Industrial
Weight	0.16 kg

Material

Housing material	Polyarylamide
Seal material	Nitrile butadiene rubber
Part No.	R414007383

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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

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

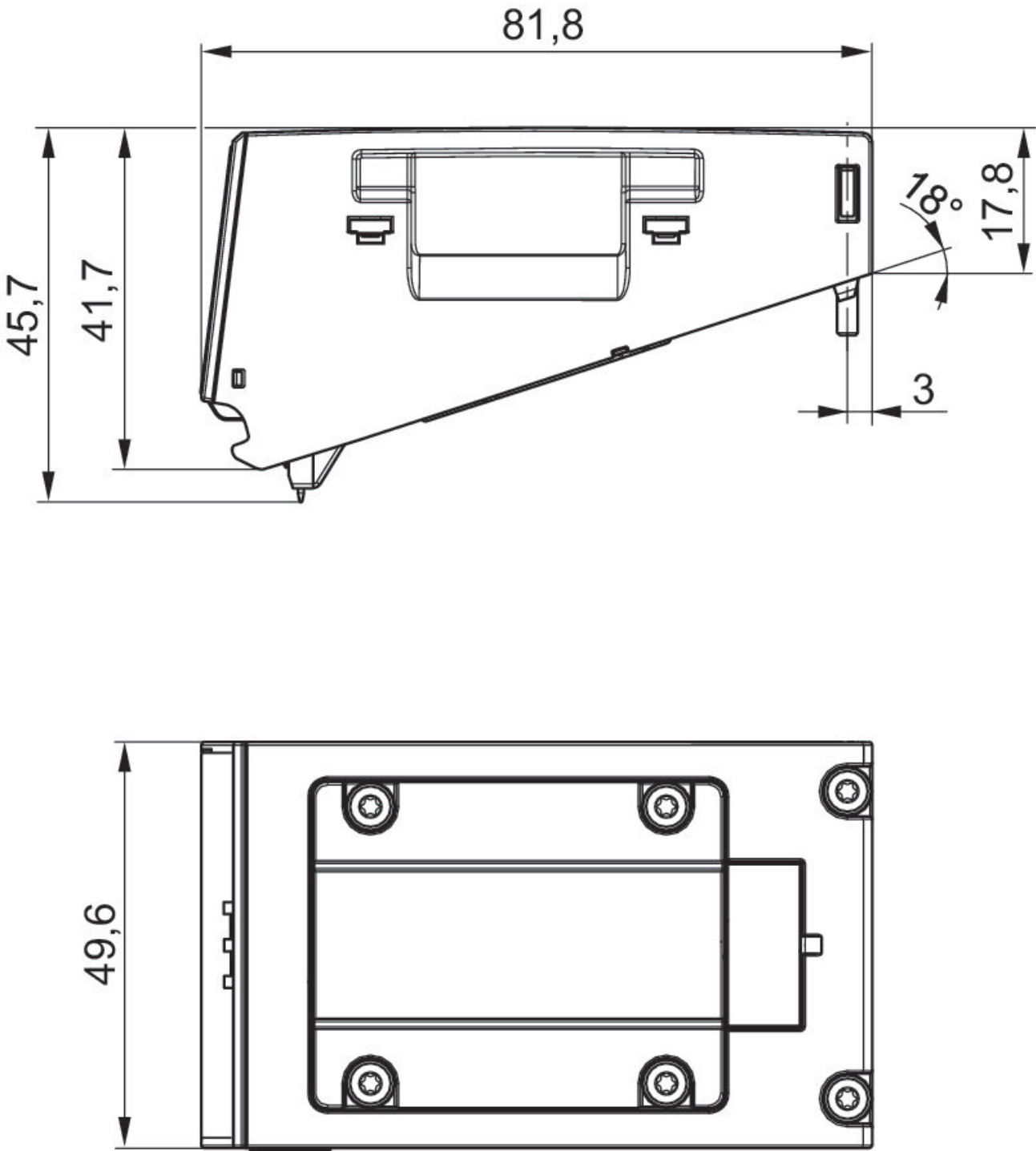
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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Dimensions



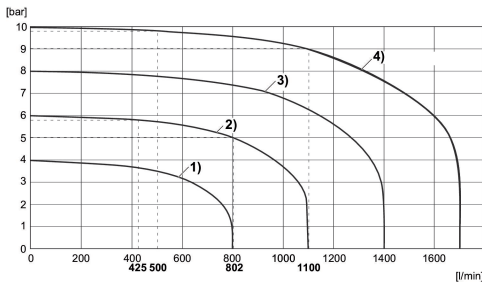
E/P pressure regulator, Series AV03-EP

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Flow characteristic curve

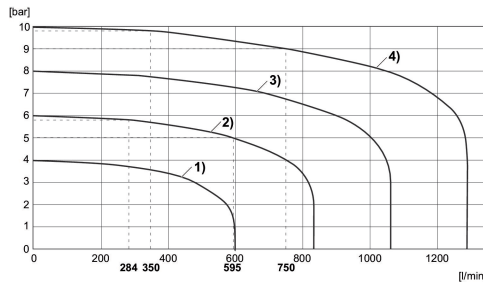
Pressure zone control



- 1) Pv = [[5] bar], controlled: [[4] bar]
- 2) Pv = [[7] bar], controlled: [[6] bar]
- 3) Pv = [[9] bar], controlled: [[8] bar]
- 4) Pv = [[11] bar], controlled: [[10] bar]

Flow characteristic curve

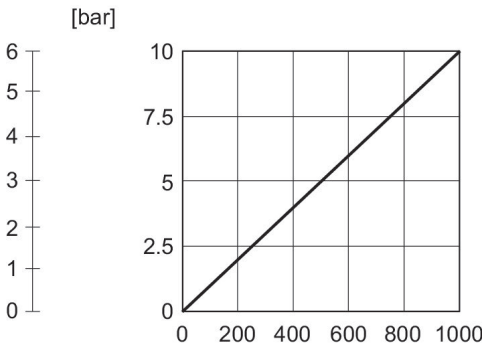
Single pressure control



- 1) Pv = [[5] bar], controlled: [[4] bar]
- 2) Pv = [[7] bar], controlled: [[6] bar]
- 3) Pv = [[9] bar], controlled: [[8] bar]
- 4) Pv = [[11] bar], controlled: [[10] bar]

Characteristics

Further information can be found in the operating instructions.



The regulator features a resolution of 10 bits (bit 0 to 9) for the serial nominal value and serial actual value: The nominal value and actual value range for the 10 bar version lies in the range of 0 to 1000 at a resolution of 10 mbar.