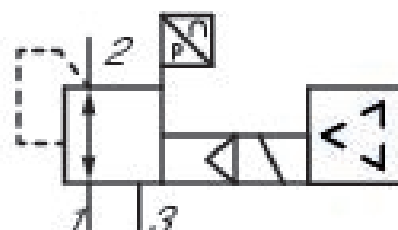# E/P pressure regulator, Series AV03-EP
R414007359

Series AV03-EP

Technical data

Regulation range min.
0.5 bar

Regulation range max.
10 bar

Working pressure min.
0 bar

Working pressure max
11 bar

Hysteresis
< [[0,2] bar]

Repetitive precision
< [[0,18] bar]

Medium
Compressed air

Min. ambient temperature
-10 °C

Max. ambient temperature
60 °C

Min. medium temperature
-10 °C

Max. medium temperature
60 °C

DC operating voltage
24 V

Max. power consumption
120 mA

Protection class
IP65

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Max. particle size
40 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Type
Piloted pressure regulator

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.
R414007359

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 under ambient and medium temperature and may not exceed 3 °C .
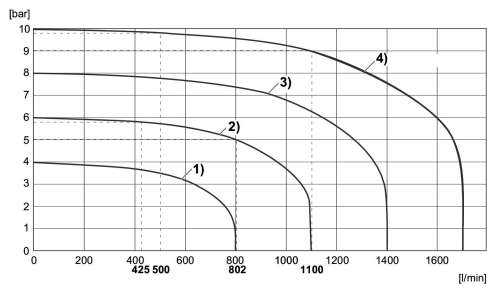
The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).
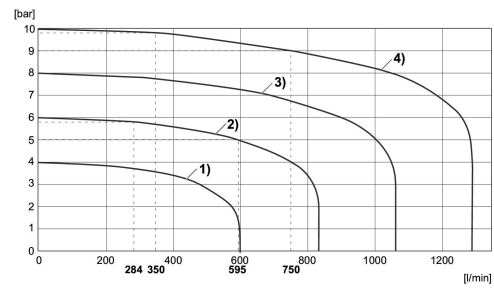
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Dimensions
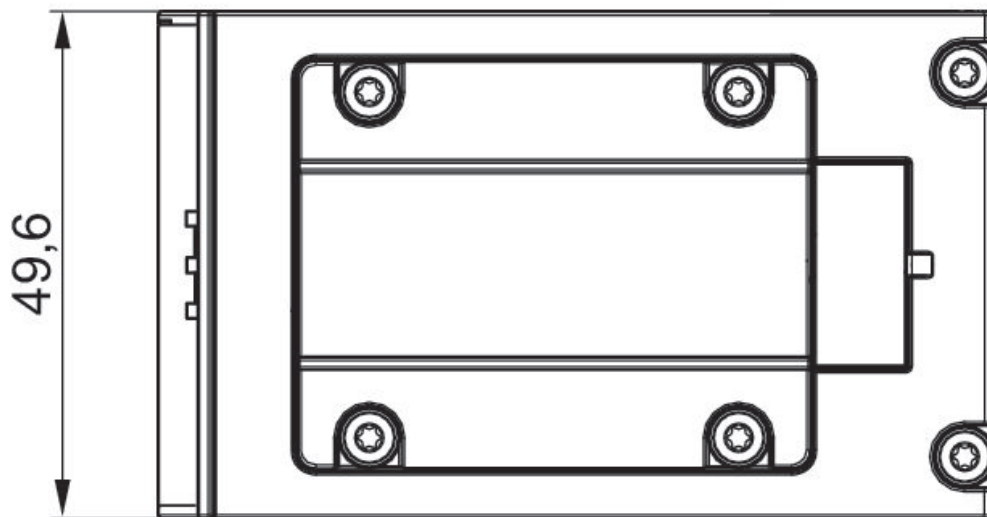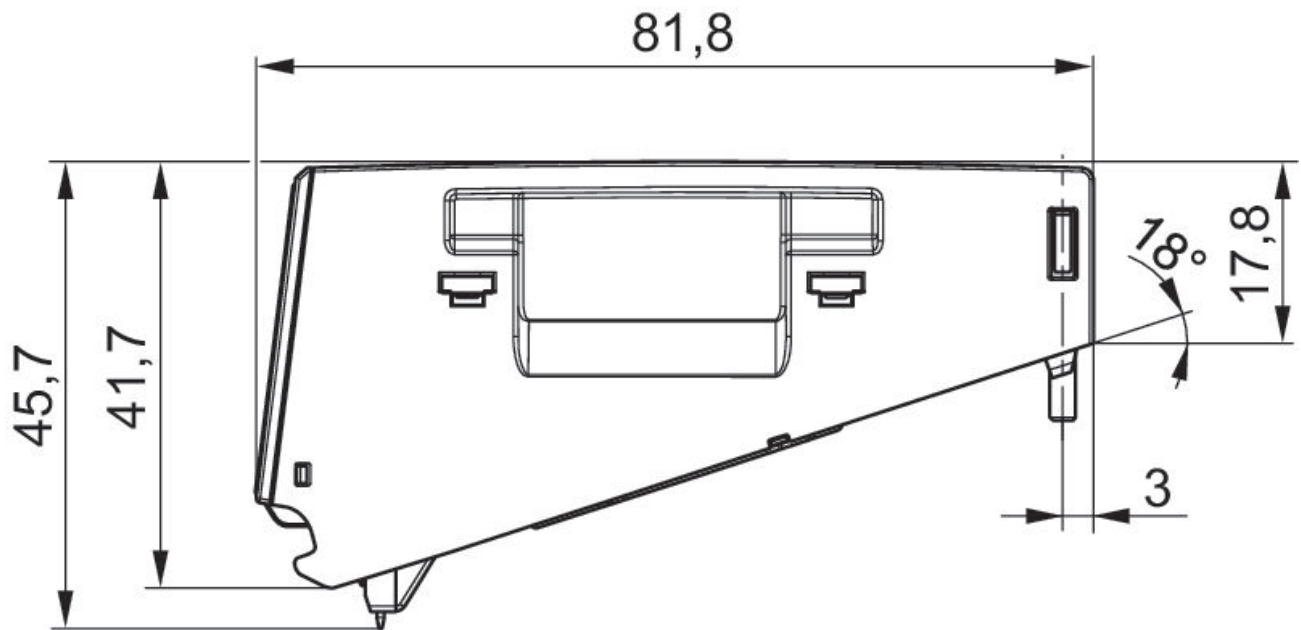
Flow characteristic curve
Pressure zone control

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]

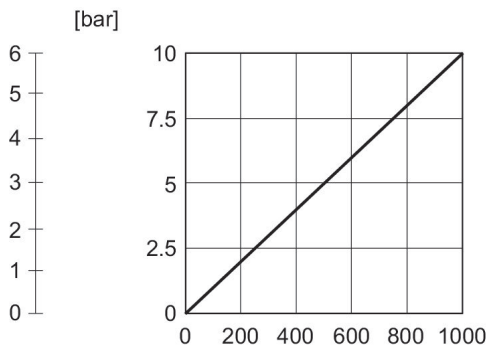# Characteristics
Further information can be found in the operating instructions.

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.

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