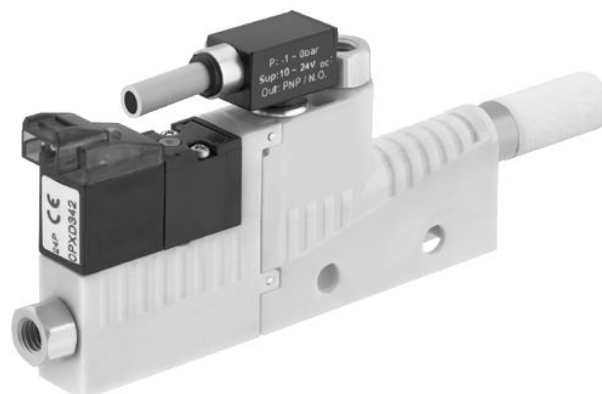


Ejector, Series EBS

R412007771

Series EBS



Technical data

Industry
Industrial

Type
Ejector

Version
electrical control, T-design

with silencer
with silencer

Nozzle Ø
0.7 mm

vacuum switch
electronic, non-adjustable

Working pressure min.
3 bar

Working pressure max
6 bar

Min. ambient temperature
0 °C

Max. ambient temperature
50 °C

Min. medium temperature
0 °C

Max. medium temperature
50 °C

Medium

Compressed air

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
1 mg/m³

Max. particle size
5 µm

Compressed air connection
M5

Vacuum connection+
M5

Max. suction capacity
16.8 l/min

Air consumption at p.opt.
24 l/min

Max. vacuum level at p.opt
85 %

Sound pressure level intake effect
59 dB

Sound pressure level intake effect
65 dB

Protection against overpressure (max.)
5 bar

Display
LED

Protection class according to EN 60529:2000,
without electrical connector
IP40

DC operating voltage
24 V

Hysteresis

< [[0,02] bar]

Repeatability (% of full scale value)

± 1 %

Voltage tolerance DC

- 5% / +10%

Switch output current

60 mA

Power consumption solenoid valve

1.3 W

Switching point

-0.6 bar

Weight

0.103 kg

Housing material

Polyamide fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Nozzle material

Aluminum

Material threaded bushing

Aluminum

Surface threaded bushing

anodized

Silencer material

Polyethylene

Part No.

R412007771

Technical information

Note: All data refers to an ambient pressure of [[1,013] bar] and an ambient temperature of [[20]°C].

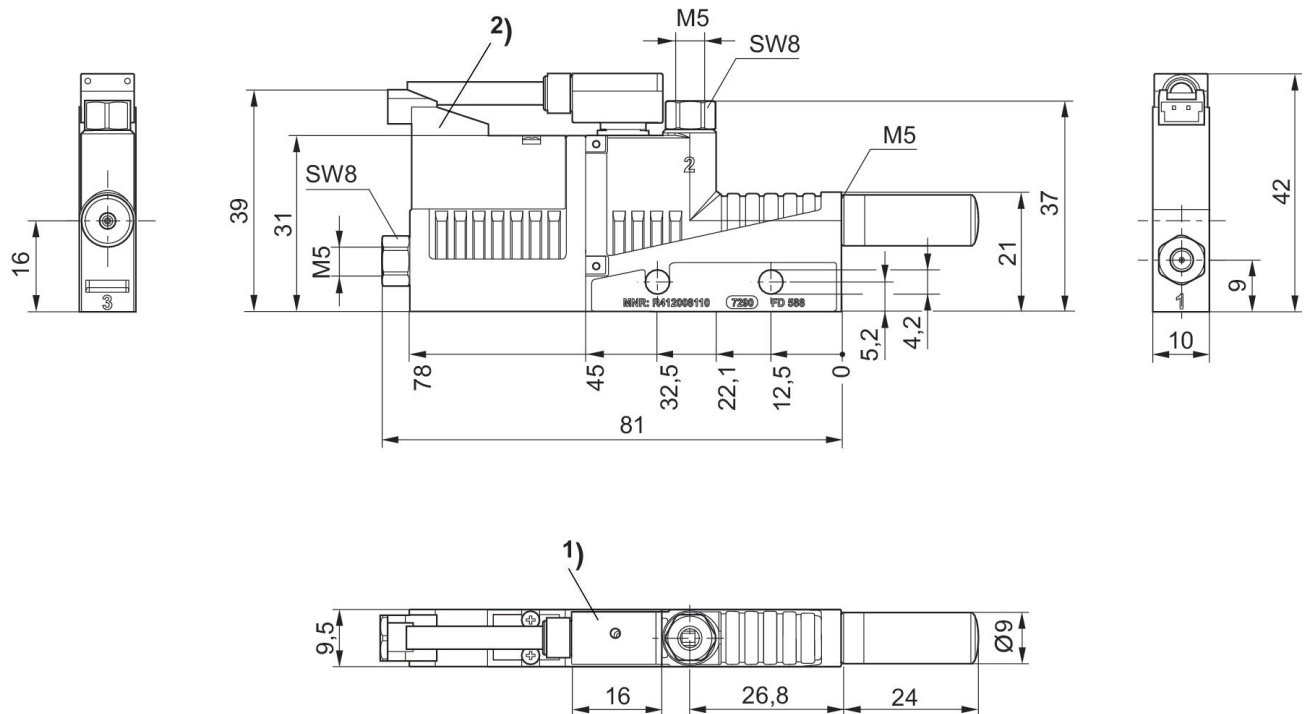
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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.

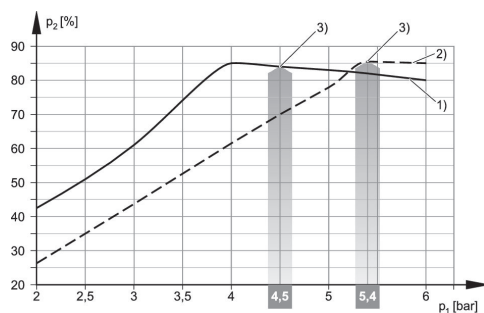
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

Dimensions



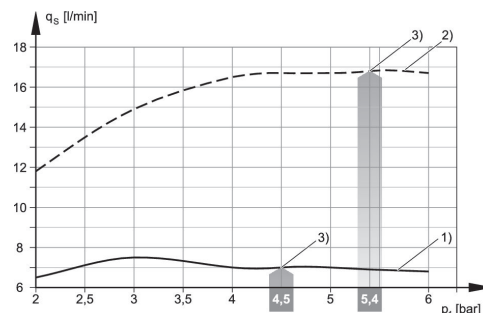
- 1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
2) Solenoid valve for vacuum ON/OFF

Vacuum p_2 depending on working pressure p_1



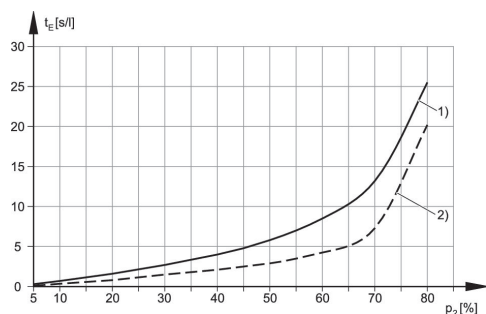
- 1) = $\varnothing$ nozzle 0.5 mm 2) = $\varnothing$ nozzle 0.7 mm
3) optimum working pressure

Suction capacity q_s depending on working pressure p_1



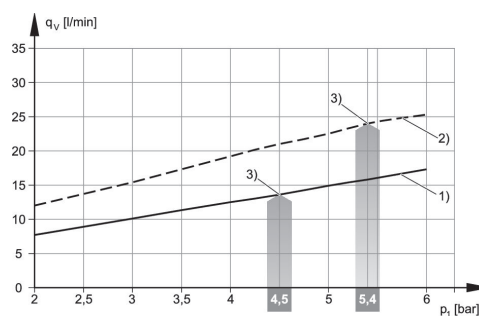
- 1) = $\varnothing$ nozzle 0.5 mm 2) = $\varnothing$ nozzle 0.7 mm
3) optimum working pressure

Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})



1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm

Air consumption q_v depending on working pressure p_1



1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm
3) optimum working pressure