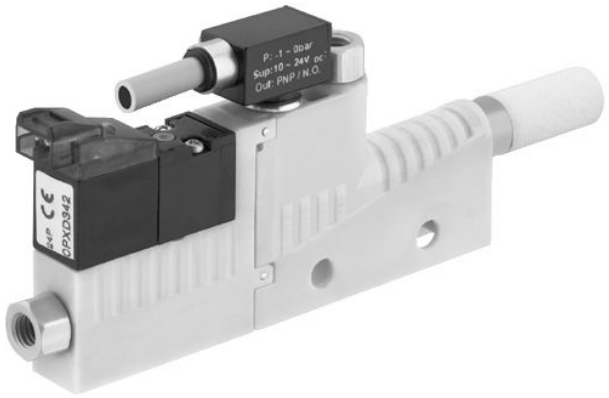
Ejector, Series EBS

R412007770

Series EBS



Technical data

Industry
Industrial

Type
Ejector

Version
electrical control, T-design

with silencer
with silencer

Nozzle Ø
0.5 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
7.5 l/min

Air consumption at p.opt.
14 l/min

Max. vacuum level at p.opt
84 %

Sound pressure level intake effect
53 dB

Sound pressure level intake effect
58 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.
R412007770

Technical information

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

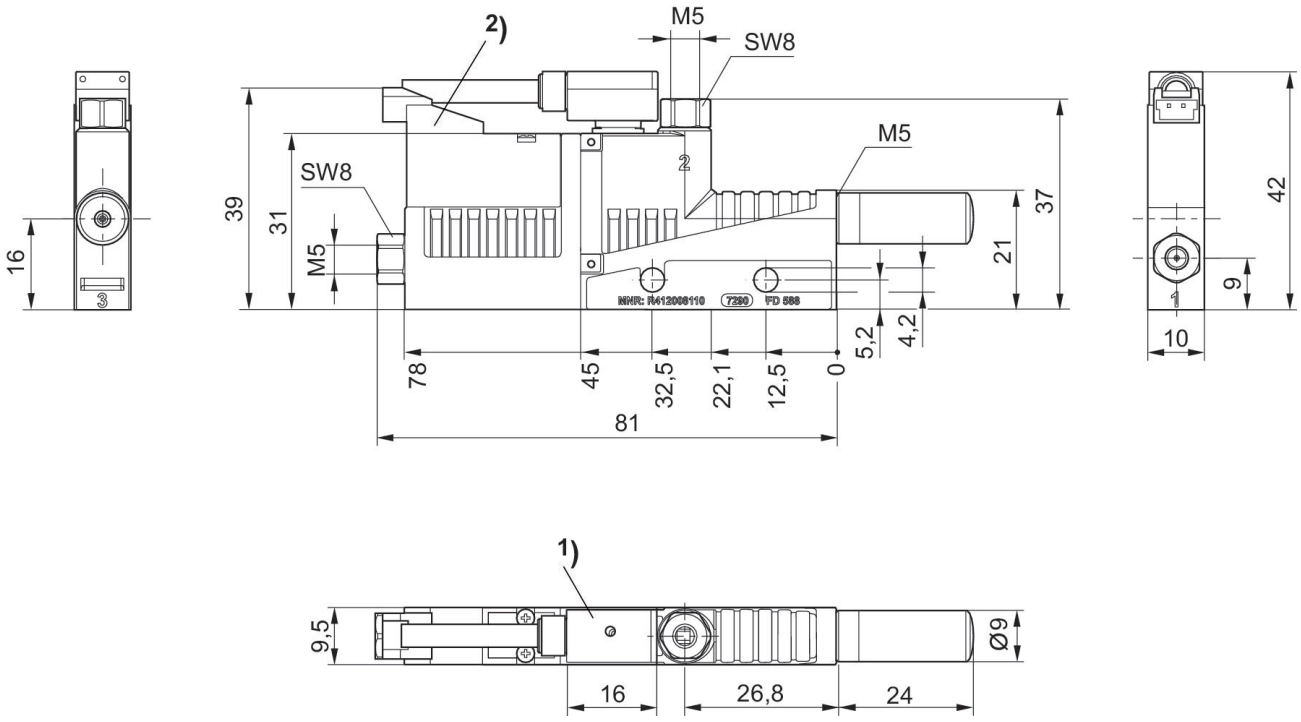
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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.

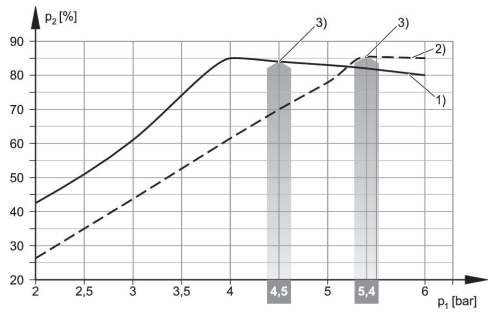
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions



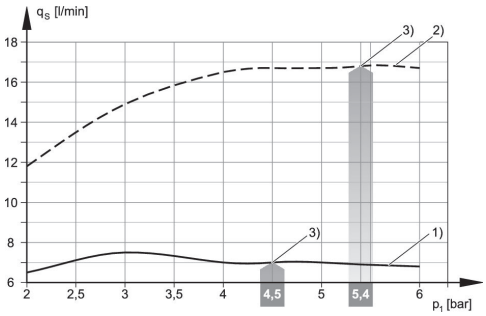
1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
2) Solenoid valve for vacuum ON/OFF

Vacuum p2 depending on working pressure p1



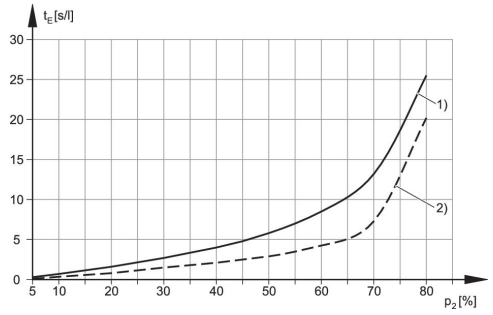
1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm
3) optimum working pressure

Suction capacity qs depending on working pressure p1



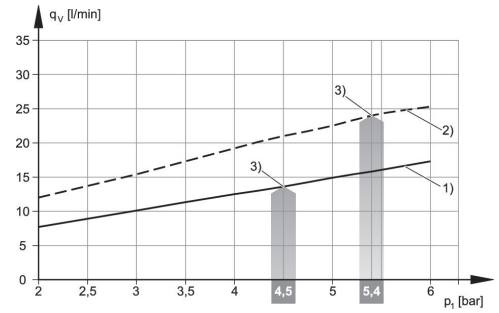
1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm
3) optimum working pressure

Evacuation time tE depending on vacuum p2 for 1 l volume (with optimal operating pressure p1opt)



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

Air consumption qv depending on working pressure p1



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