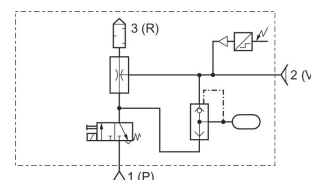
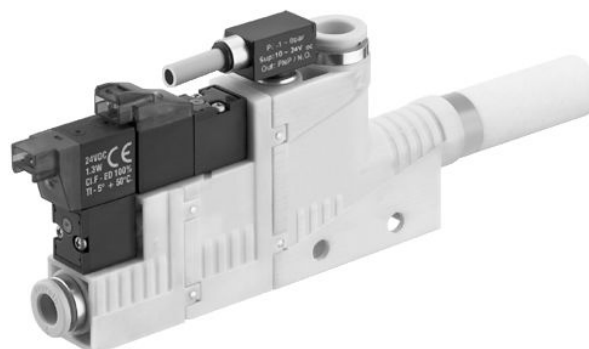


Ejector, Series EBS

R412007467

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
Ø 4

Vacuum connection+
Ø 4

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

release valve	Power consumption solenoid valve
release valve	1.3 W
Display	Switching point
LED	-0.6 bar
Protection class according to EN 60529:2000, without electrical connector	Weight
IP40	0.111 kg
DC operating voltage	Housing material
24 V	Polyamide fiber-glass reinforced
Hysteresis	Seal material
< [[0,02] bar]	Acrylonitrile butadiene rubber
Repeatability (% of full scale value)	Nozzle material
± 1 %	Aluminum
Voltage tolerance DC	Material release ring
- 5% / +10%	Polyamide
Switch output current	Silencer material
60 mA	Polyethylene
	Part No.
	R412007467

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 .

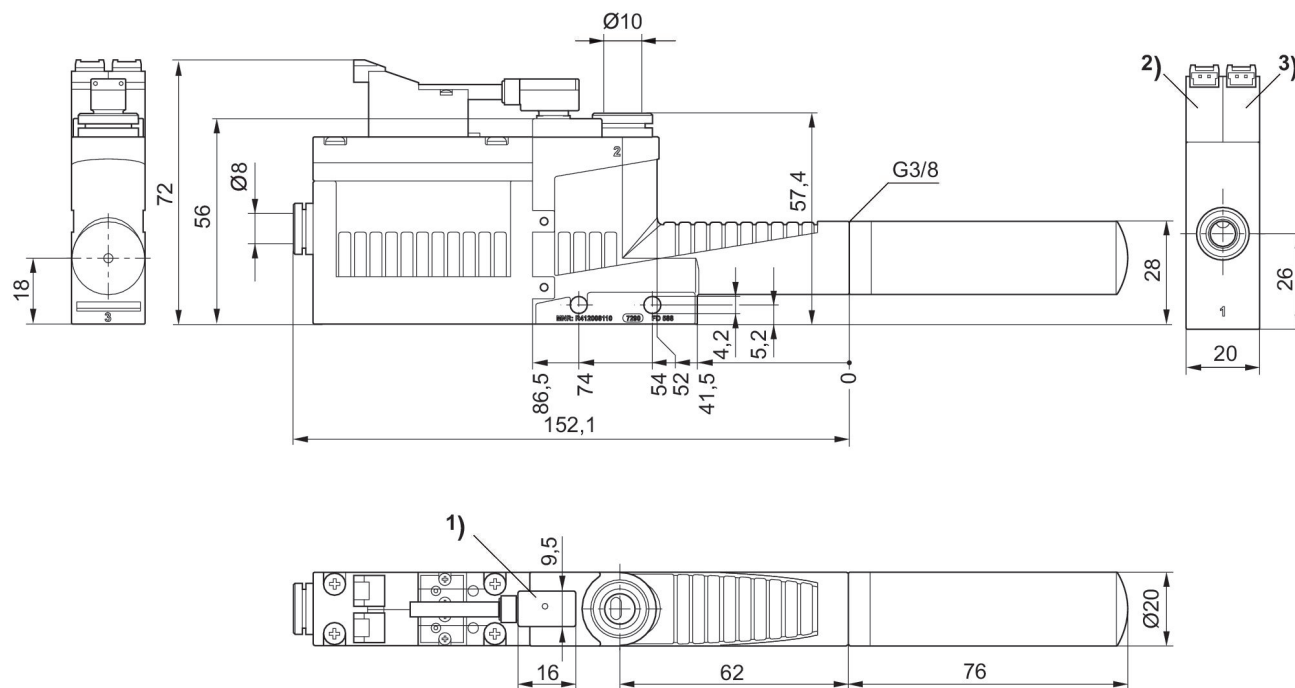
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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>).

Fig. 3

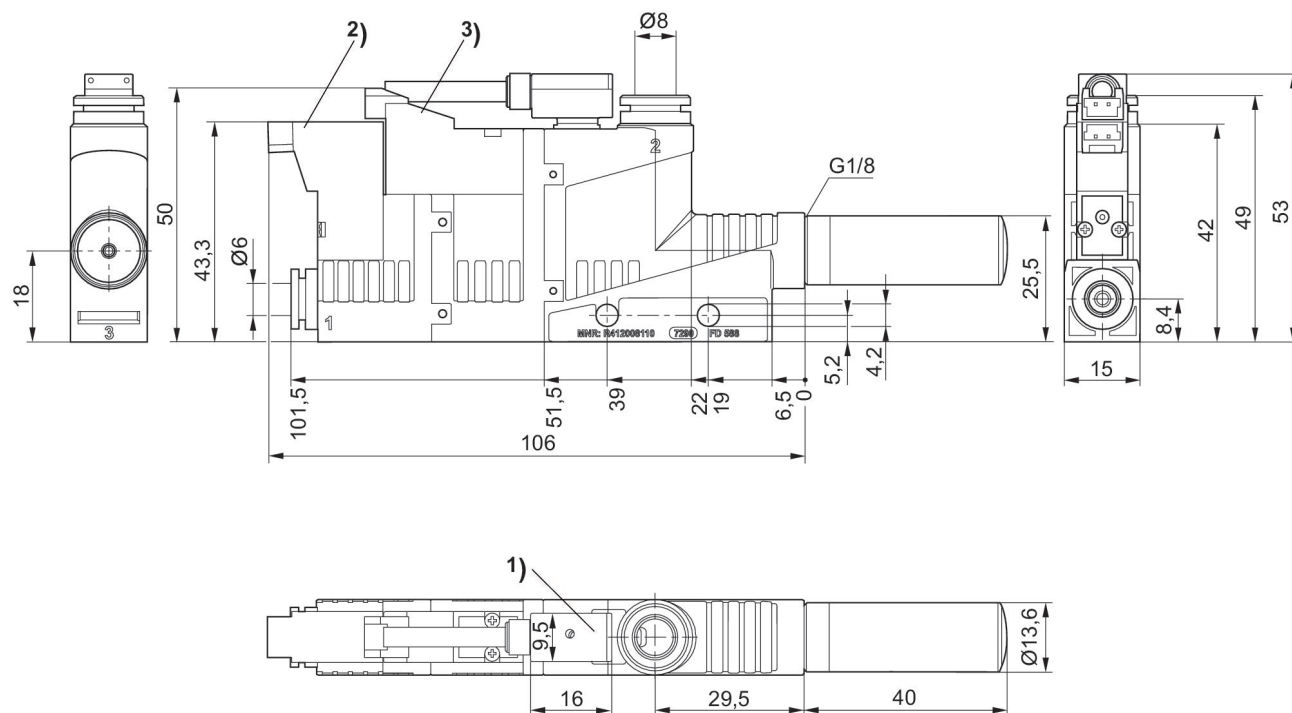
R412007471



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

Fig. 2
R412007469

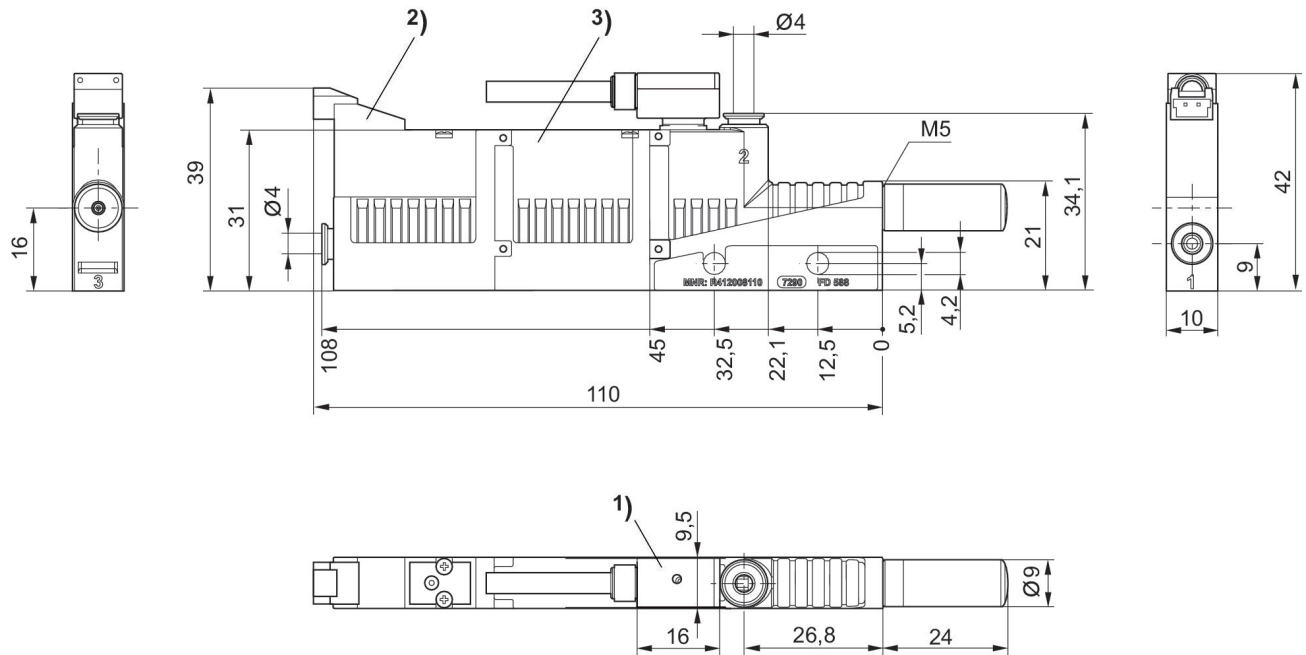
R412007470



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

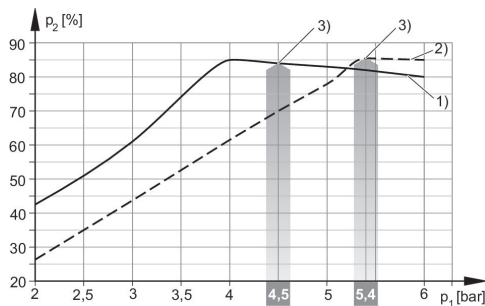
Fig. 1
R412007467

R412007468

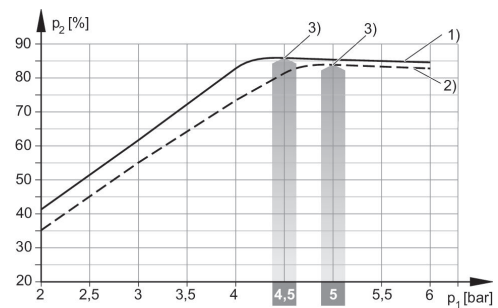


- 1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
2) Solenoid valve for vacuum ON/OFF
3) Release valve from memory

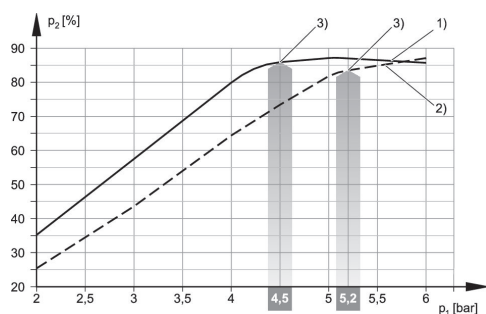
Vacuum p_2 depending on working pressure p_1



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

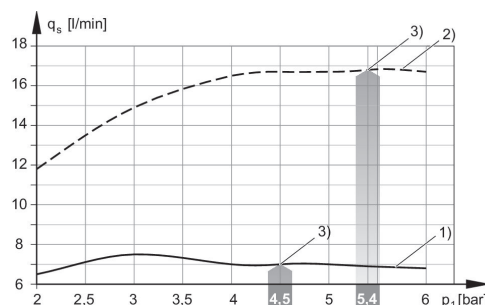


- 1) = $\varnothing$ nozzle 1.0 mm 2) = $\varnothing$ nozzle 1.5 mm
3) optimum working pressure

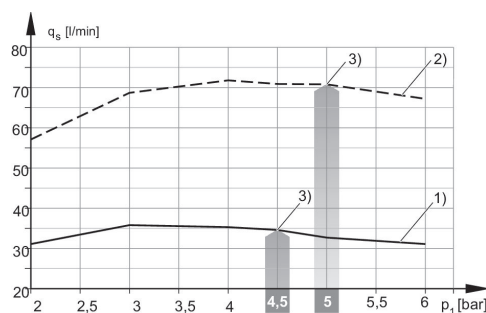


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

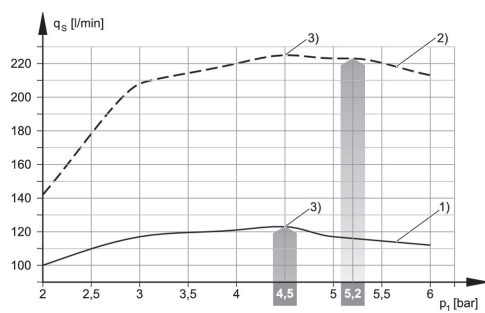
Suction capacity q_s depending on working pressure p_1



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

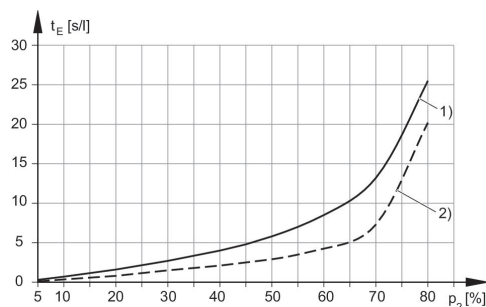


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm
3) optimum working pressure

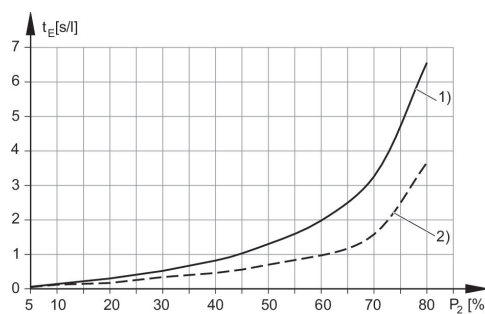


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

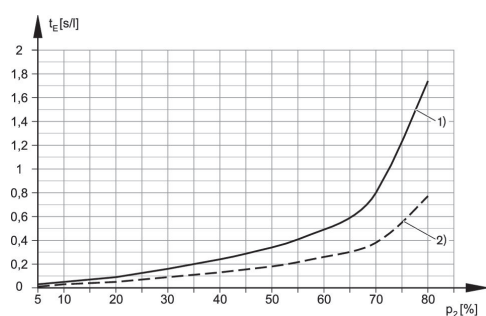
Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})



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

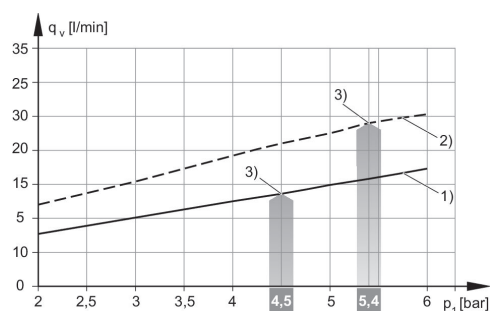


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm

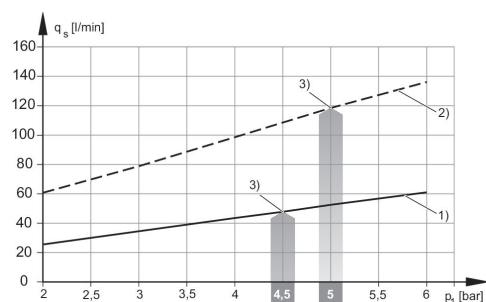


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm

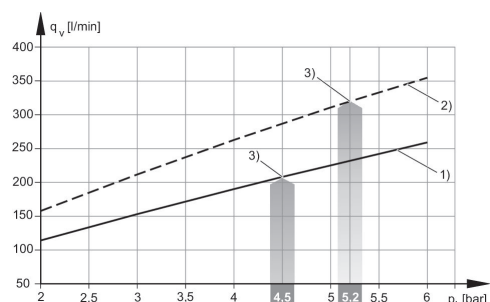
Air consumption q_v depending on working pressure p_1



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



1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm
3) optimum working pressure



1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure