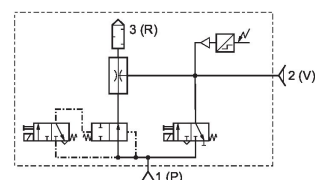
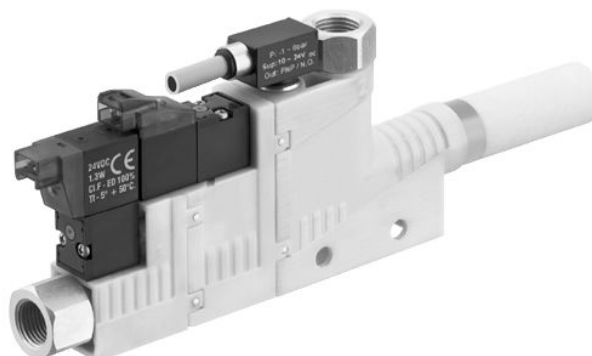


Ejector, Series EBS

R412007493

Series EBS



Technical data

Industry
Industrial

Type
Ejector

Version
electrical control, T-design

with silencer
with silencer

Nozzle Ø
1 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
G 1/8

Vacuum connection+
G 1/8

Max. suction capacity
35 l/min

Air consumption at p.opt.
48 l/min

Max. vacuum level at p.opt
86 %

Sound pressure level intake effect
59 dB

Sound pressure level intake effect
65 dB

Protection against overpressure (max.)
5 bar

release valve	Switching point
release valve	-0.6 bar
Display	Weight
LED	0.145 kg
Protection class according to EN 60529:2000, without electrical connector	Housing material
IP40	Polyamide fiber-glass reinforced
DC operating voltage	Seal material
24 V	Acrylonitrile butadiene rubber
Hysteresis	Nozzle material
< [[0,02] bar]	Aluminum
Repeatability (% of full scale value)	Material threaded bushing
± 1 %	Aluminum
Voltage tolerance DC	Surface threaded bushing
- 5% / +10%	anodized
Switch output current	Silencer material
60 mA	Polyethylene
Power consumption solenoid valve	Part No.
1.3 W	R412007493

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 .

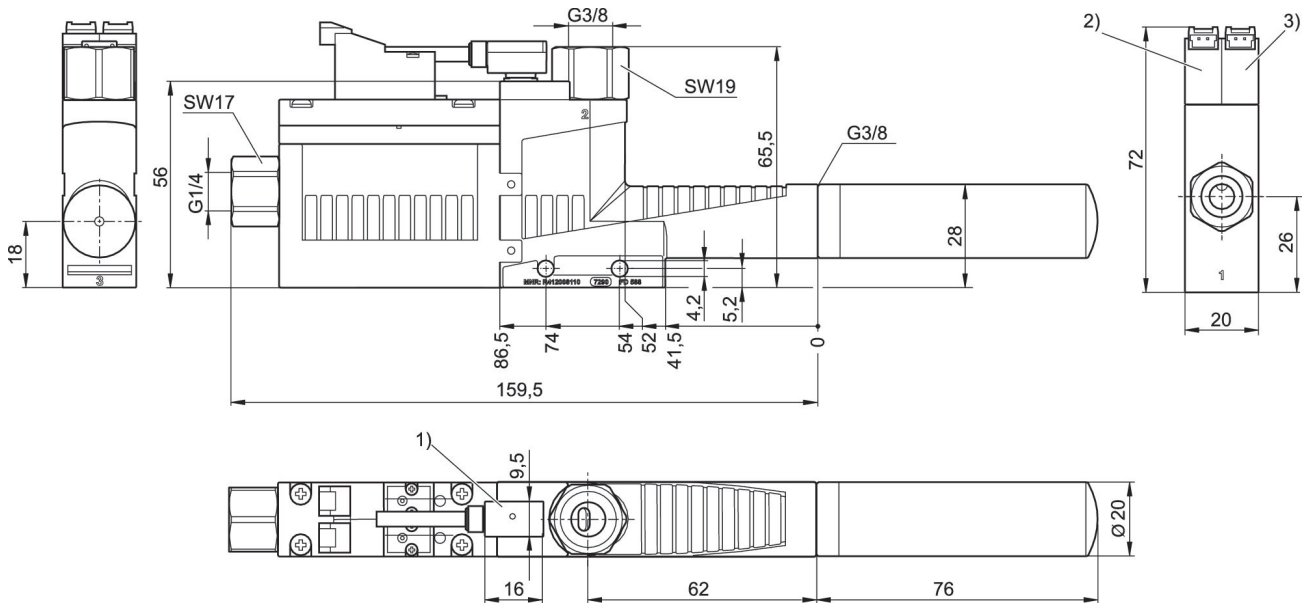
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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>).

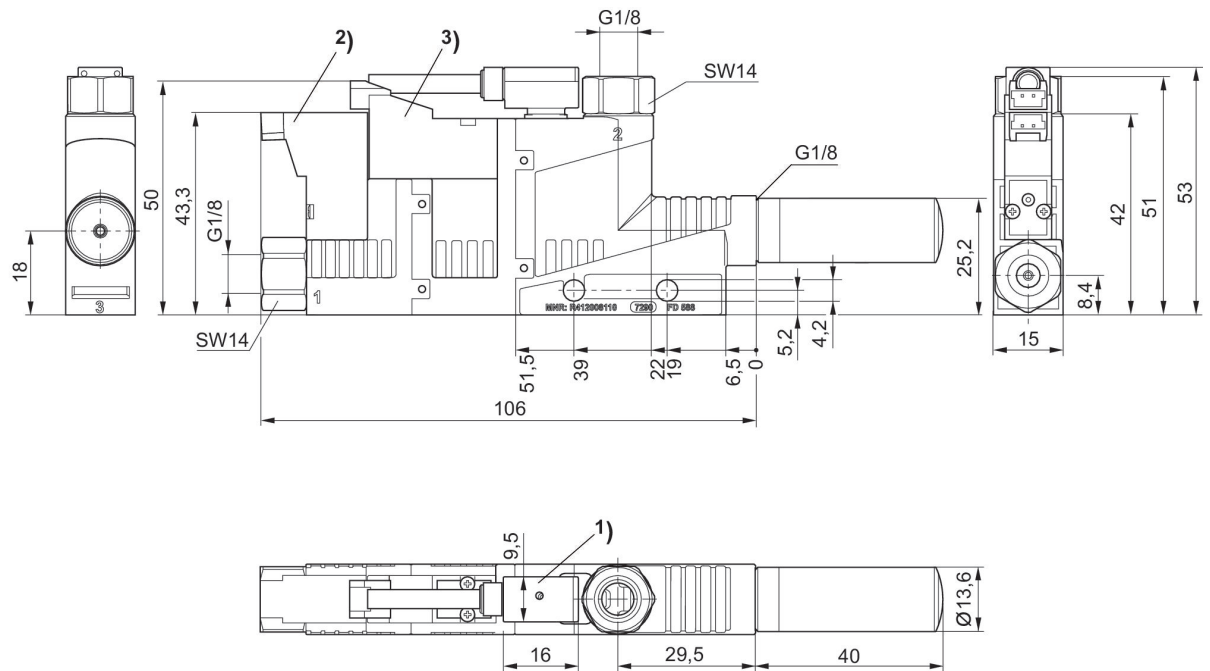
Fig. 3

R412007495



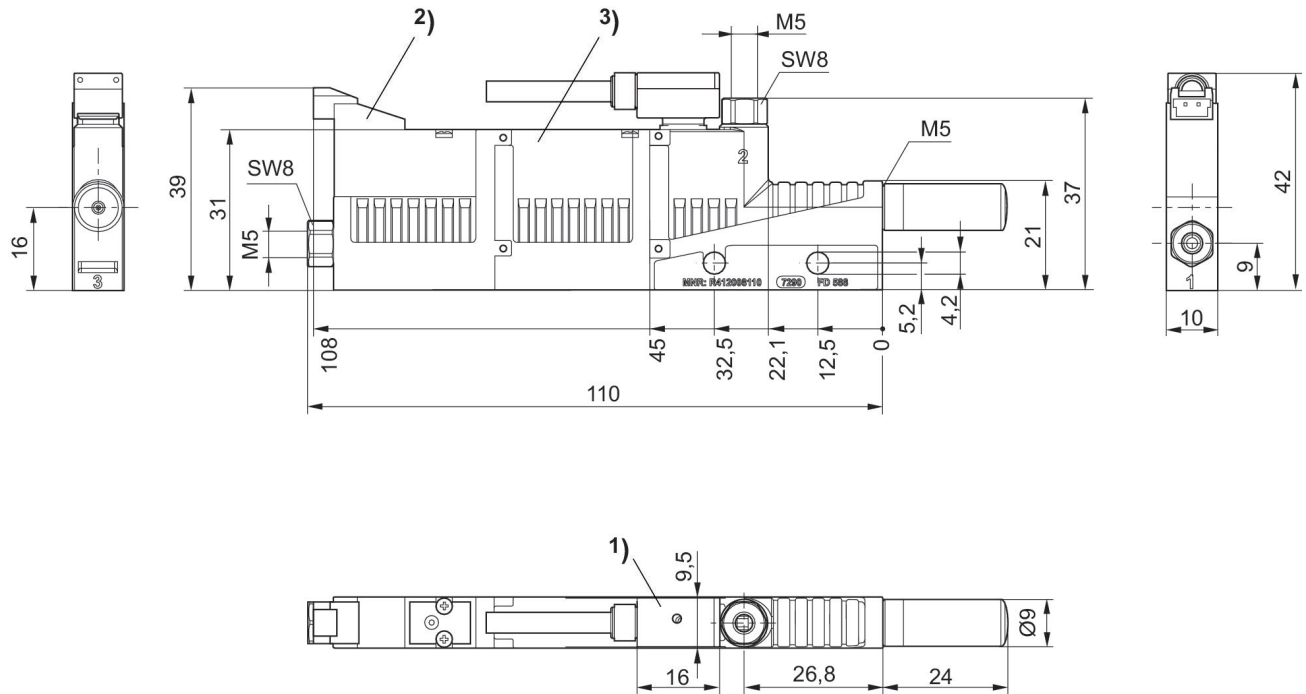
- 1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
2) Solenoid valve for vacuum ON/OFF
3) Solenoid valve for release pulse

Fig. 2
R412007493
R412007494



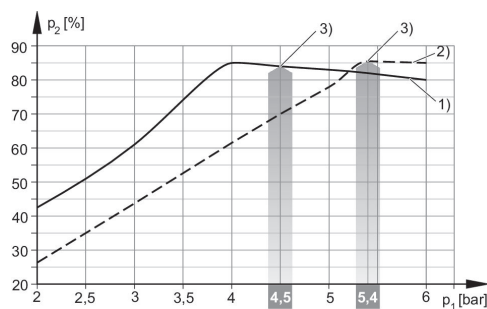
- 1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
2) Solenoid valve for vacuum ON/OFF
3) Solenoid valve for release pulse

Fig. 1
R412007491
R412007492

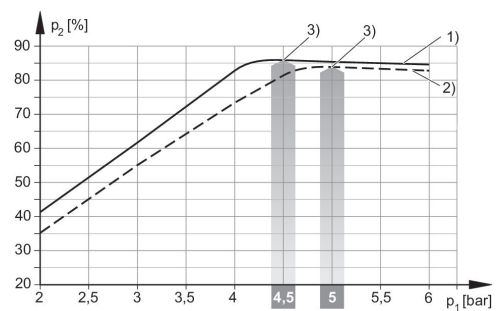


- 1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
2) Solenoid valve for vacuum ON/OFF
3) Release valve from memory

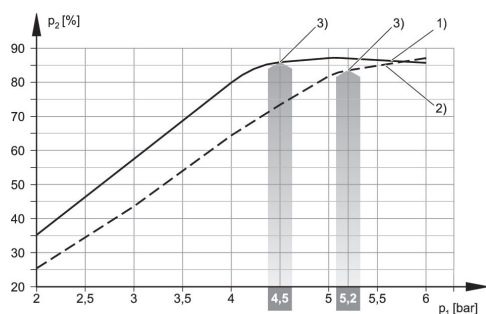
Vacuum p_2 depending on working pressure p_1



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

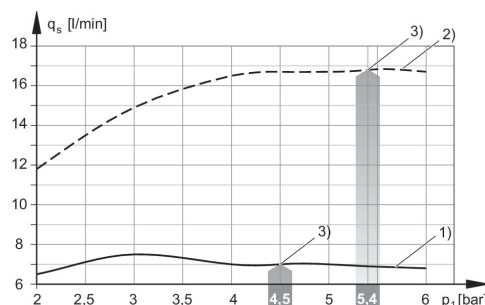


- 1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm
3) optimum working pressure

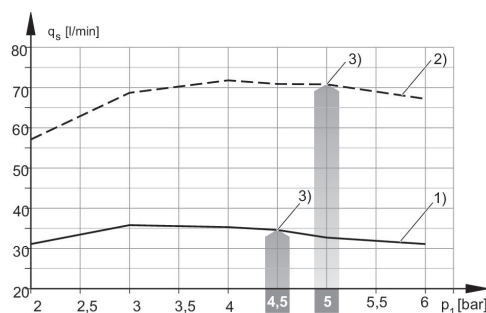


1) = $\varnothing$ nozzle 2.0 mm 2) = $\varnothing$ nozzle 2.5 mm
3) optimum working pressure

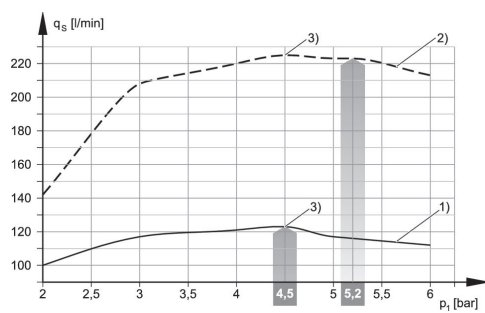
Suction capacity q_s depending on working pressure p_1



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

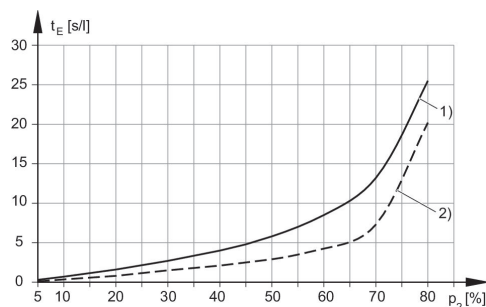


1) = $\varnothing$ nozzle 1.0 mm 2) = $\varnothing$ nozzle 1.5 mm
3) optimum working pressure

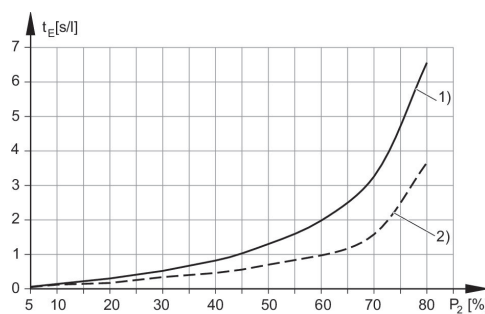


1) = $\varnothing$ nozzle 2.0 mm 2) = $\varnothing$ nozzle 2.5 mm
3) optimum working pressure

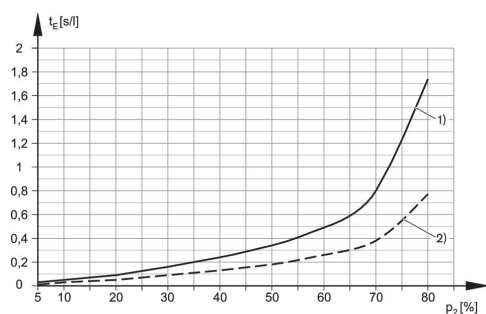
Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})



1) = $\varnothing$ nozzle 0.5 mm 2) = $\varnothing$ nozzle 0.7 mm

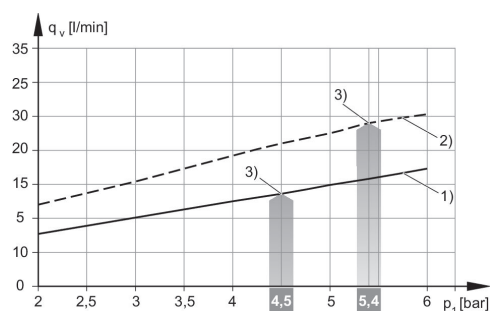


1) = $\varnothing$ nozzle 1.0 mm 2) = $\varnothing$ nozzle 1.5 mm

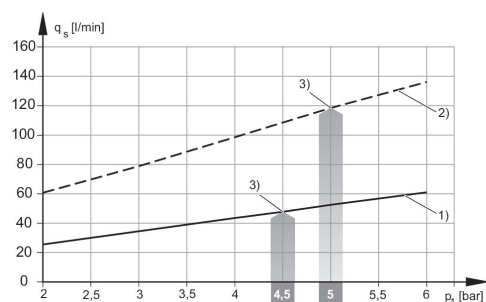


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm

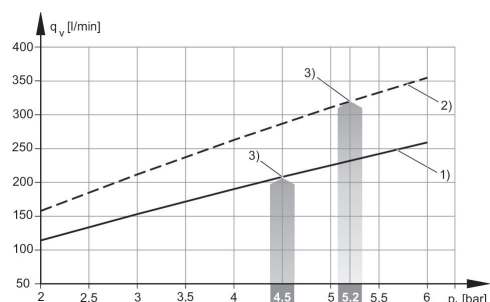
Air consumption q_v depending on working pressure p_1



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