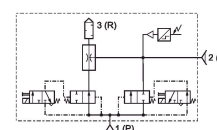
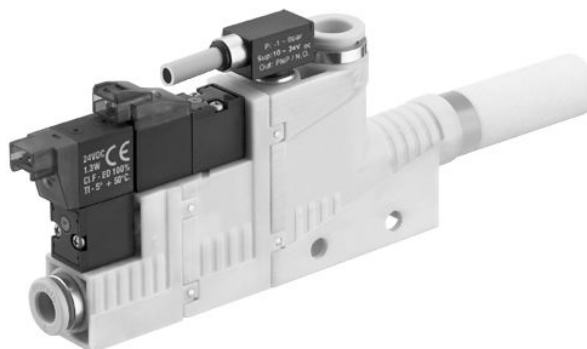


AVENTICS Series EBS Ejectors

The AVENTICS Series EBS ejectors are the convincing and talented multi-taskers within the AVENTICS ejector Series. Parallel to the main advantages of this ejector Series, these ejectors offer additional benefits due to their enormous versatility.



Technical data

Industry	Industrial
Activation	Electrically
Note	push-in fitting
Type	Ejector
Version	electrical control, T-design
with silencer	with silencer
Nozzle Ø	2.5 mm
vacuum switch	electronic, non-adjustable
Min. working pressure	3 bar
Max. working pressure	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
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	5 µm
Compressed air connection	Ø 8
Vacuum connection+	Ø 10
Max. suction capacity	223 l/min
Air consumption at p.opt.	320 l/min
Max. vacuum level at p.opt	84 %
Sound pressure level intake effect	70 dB
Sound pressure level intake effect	78 dB

Protection against overpressure (max.)	5 bar
release valve	release valve
Display	LED
Protection class according to EN 60529:2000, without electrical connector	IP40
Operational voltage DC	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	0.222 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Aluminum
Material release ring	Polyamide
Silencer material	Polyethylene
Part No.	R412007472

Technical information

Note: All data refers to an ambient pressure of $[[1,013]]$ bar] and an ambient temperature of $[[20]]^{\circ}\text{C}$.
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

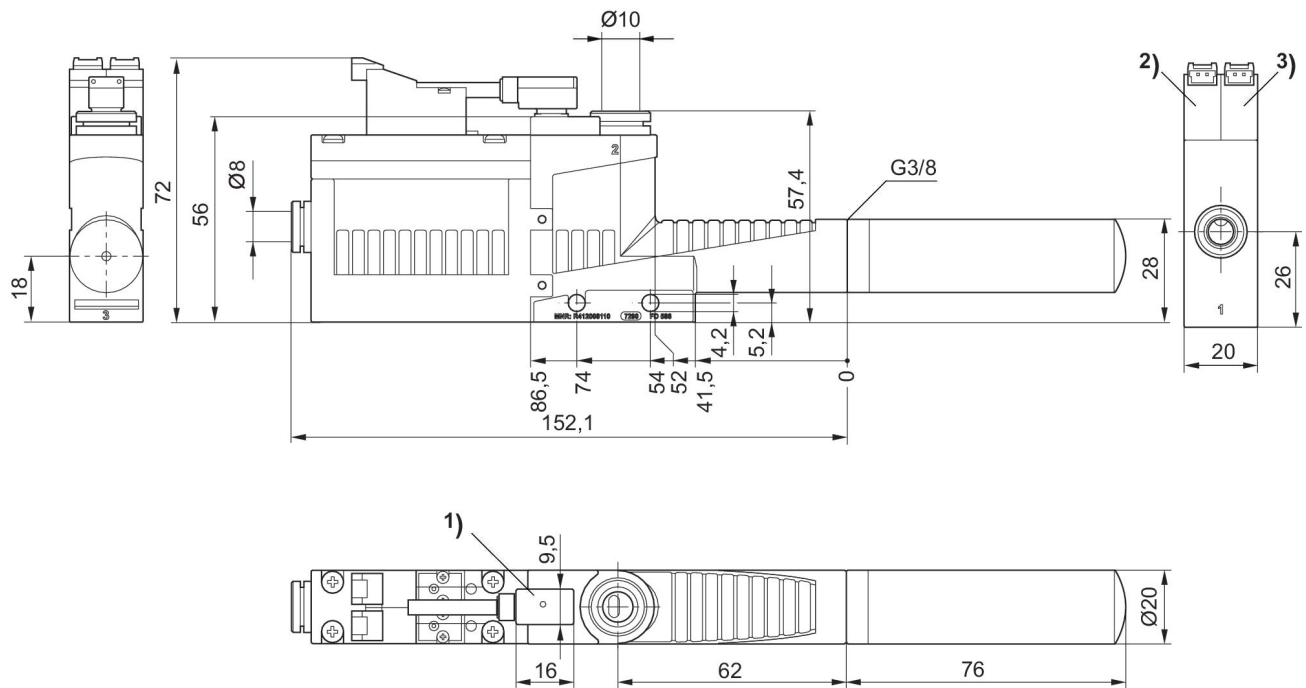
Fig. 3

Ejector, Series EBS

2024-02-20

R412007472

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

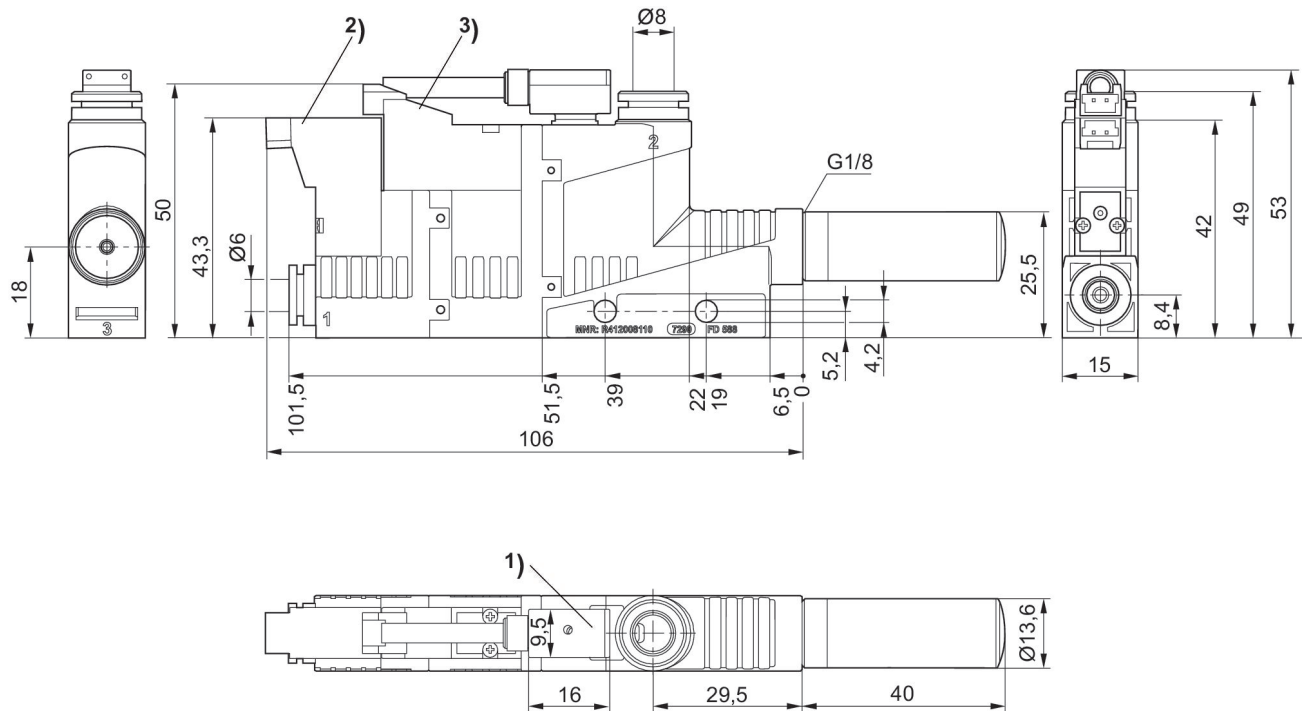
R412007469

Ejector, Series EBS

2024-02-20

R412007472

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

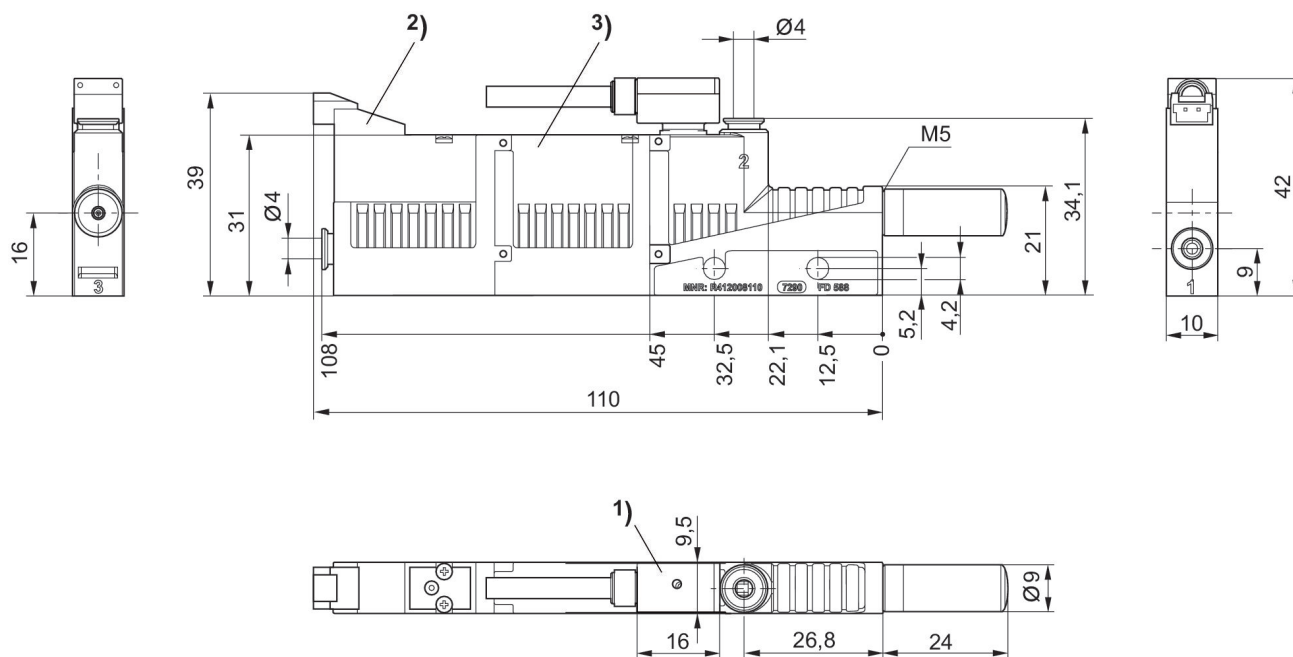
R412007467

Ejector, Series EBS

2024-02-20

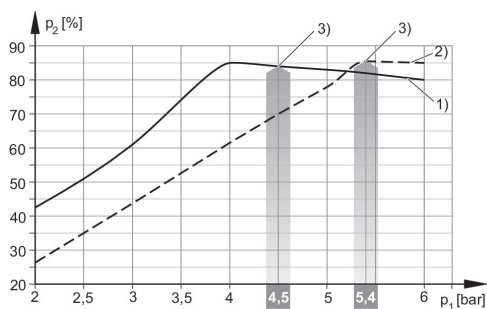
R412007472

R412007468

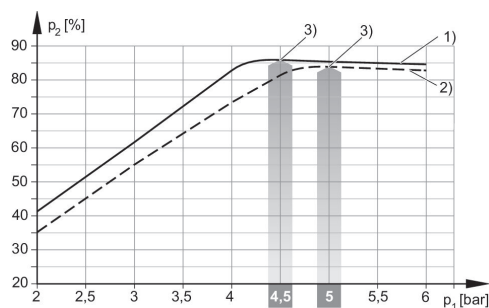


- 1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded
- 2) Solenoid valve for vacuum ON/OFF
- 3) Release valve from memory

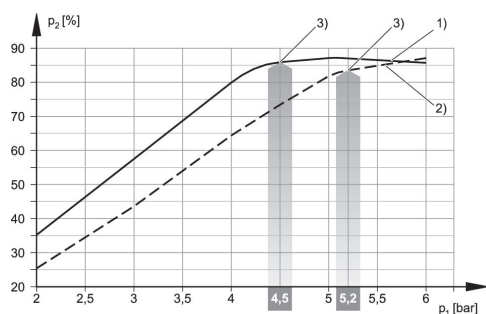
Vacuum p_2 depending on working pressure p_1



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

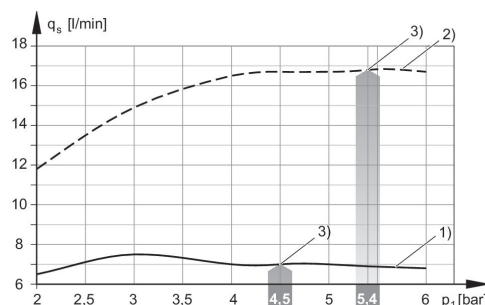


- 1) = $\varnothing$ nozzle 1.0 mm 2) = $\varnothing$ nozzle 1.5 mm
- 3) optimum working pressure

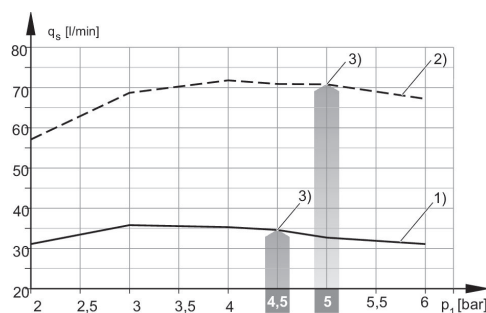


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

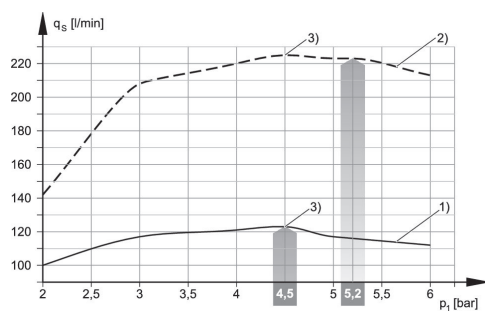
Suction capacity q_s depending on working pressure p_1



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

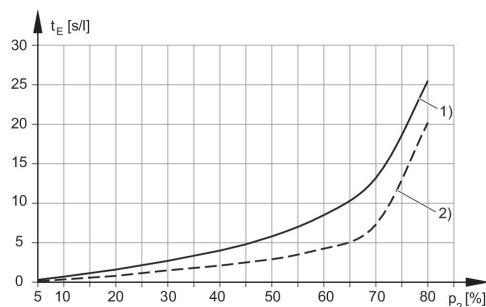


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm
3) optimum working pressure

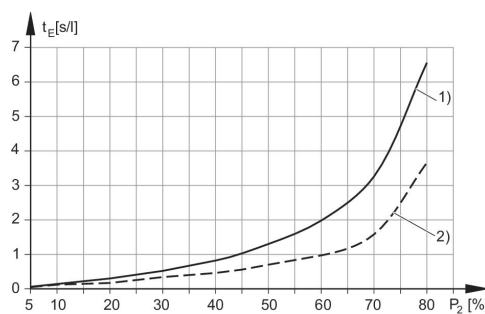


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

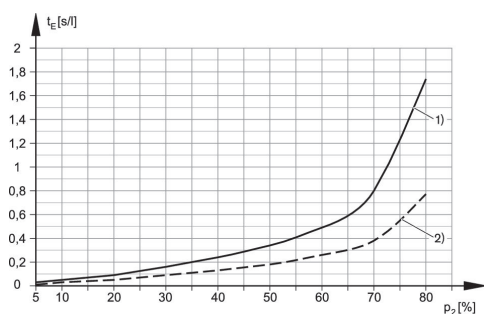
Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})



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

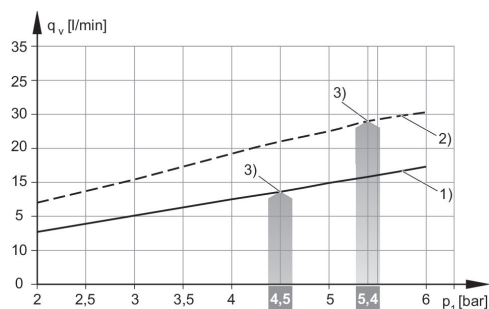


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm

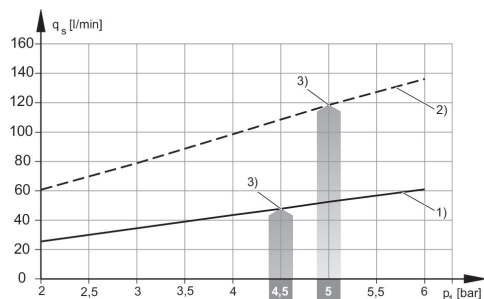


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm

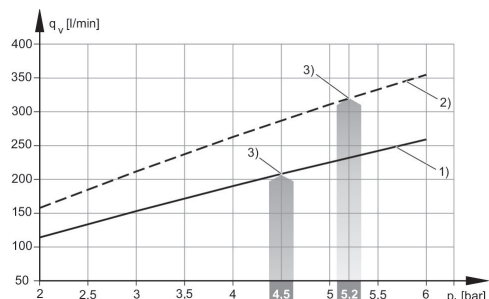
Air consumption q_v depending on working pressure p_1



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