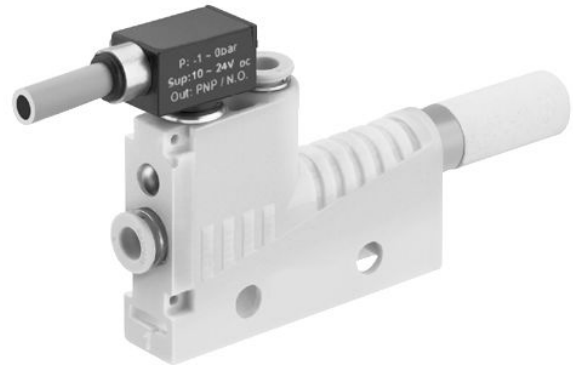


## AVENTICS Series EBS Ejectors

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	pneumatic 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 <sup>3</sup>
Max. oil content of compressed air	1 mg/m <sup>3</sup>
Max. particle size	5 µm
Compressed air connection	Ø 8
Vacuum connection+	Ø 10
Max. suction capacity	218 l/min
Air consumption at p.opt.	311 l/min
Max. vacuum level at p.opt.	82 %
Sound pressure level intake effect	75 dB
Sound pressure level intake effect	78 dB

# Ejector, Series EBS

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R412007460

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Protection against overpressure (max.)	5 bar
Display	LED
Protection class	IP40
Operational voltage DC	24 V
Hysteresis	< 0,02 bar
Repeatability (% of full scale value)	± 1 %
Voltage tolerance DC	-20% / +10%
Switch output current	60 mA
Local current consumption	<15 mA
Switching point	-0.6 bar
Weight	0.145 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Aluminum
Material release ring	Polyamide
Silencer material	Polyethylene
Part No.	R412007460

## 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 less than ambient and medium temperature and may not exceed 3 °C.

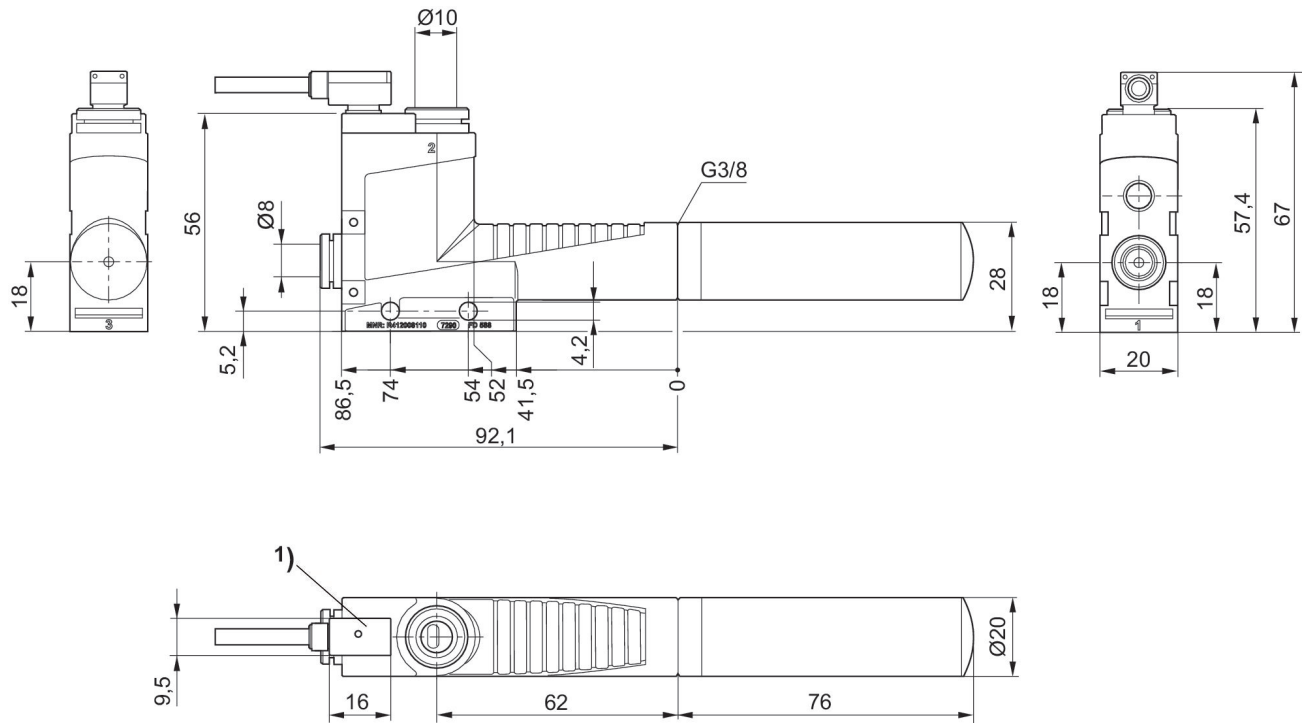
Fig. 3

# Ejector, Series EBS

2024-02-20

R412007460

R412007459



1) Vacuum switch is rotatable, not exchangeable  
Cable length, 3 m, 3-wire, shielded

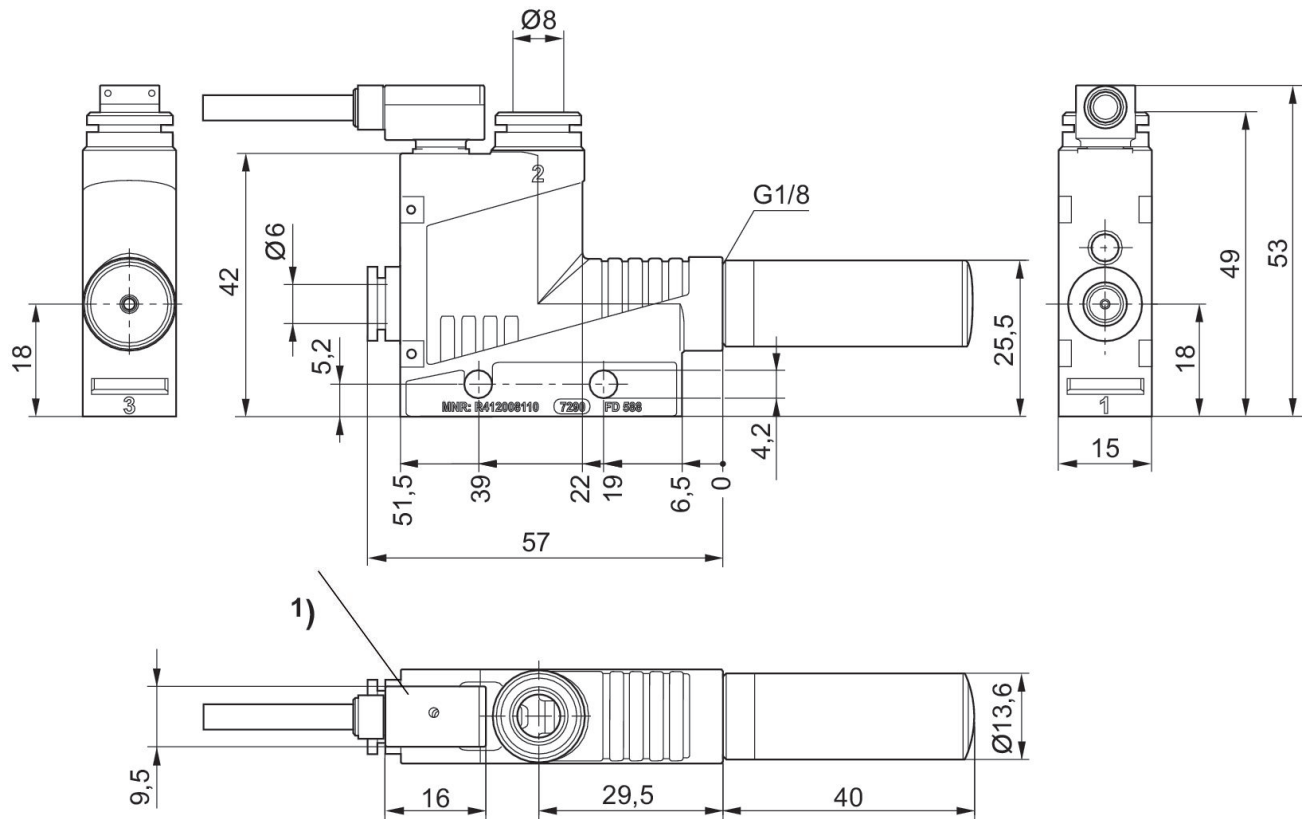
Fig. 2  
R412007457

# Ejector, Series EBS

2024-02-20

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R412007458



1) Vacuum switch is rotatable, not exchangeable  
Cable length, 3 m, 3-wire, shielded

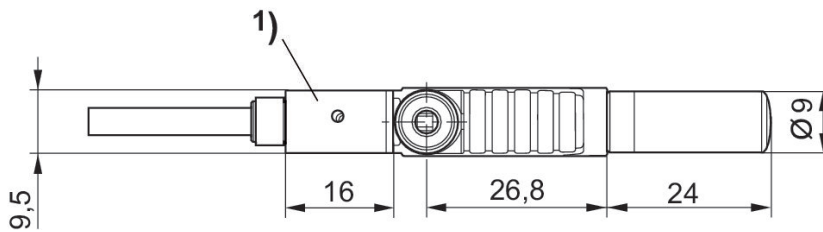
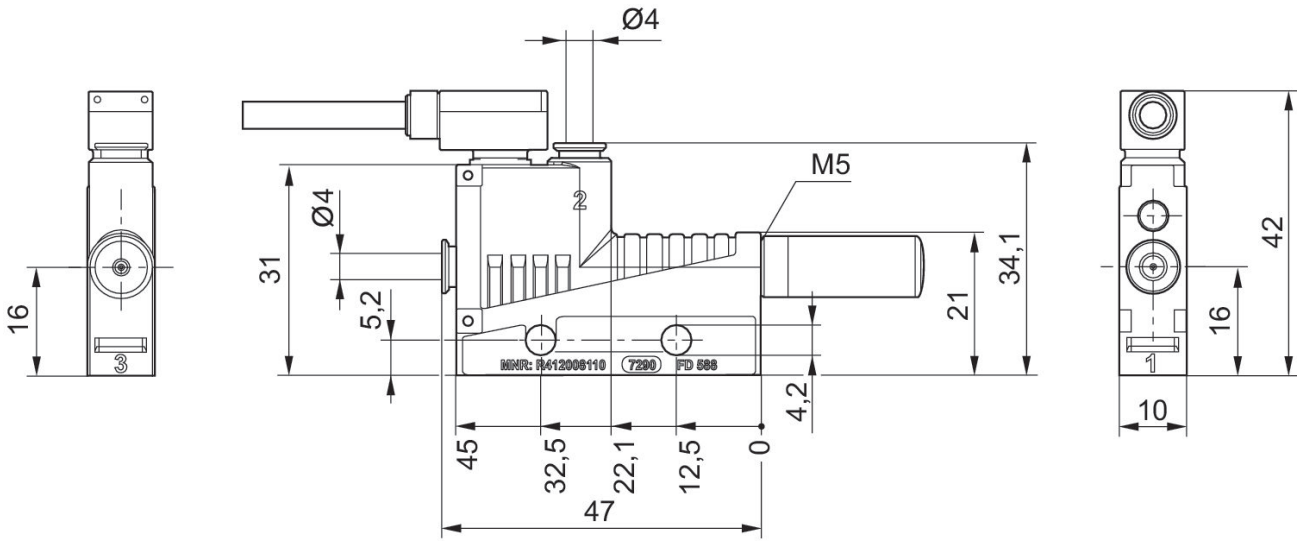
Fig. 1  
R412007455

# Ejector, Series EBS

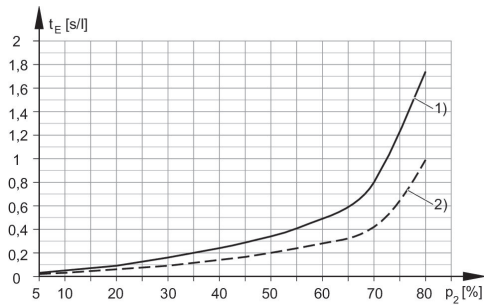
2024-02-20

R412007460

R412007456

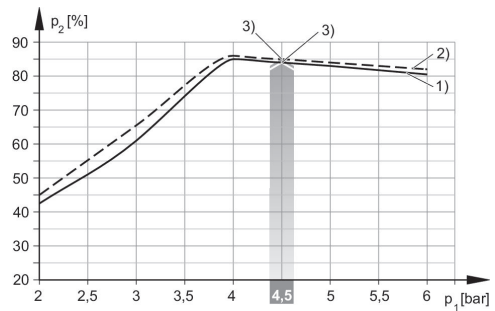


1) Vacuum switch is rotatable, not exchangeable  
Cable length, 3 m, 3-wire, shielded

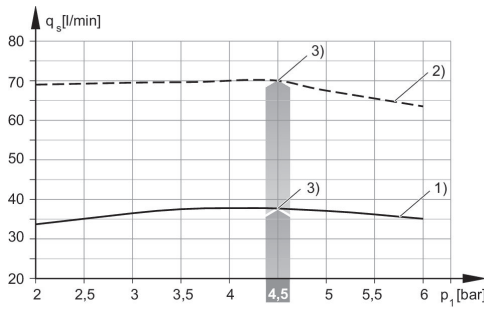


1) =  $\text{Ø}$  nozzle 2.0 mm 2) =  $\text{Ø}$  nozzle 2.5 mm

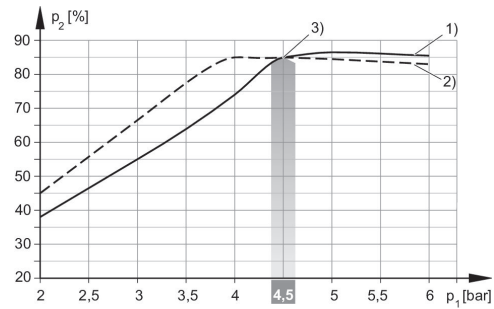
## Vacuum $p_2$ depending on working pressure $p_1$



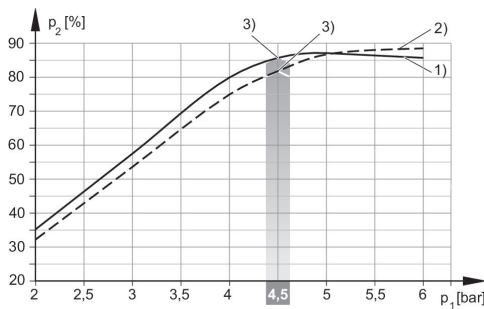
1) =  $\text{Ø}$  nozzle 0.5 mm 2) =  $\text{Ø}$  nozzle 0.7 mm  
3) optimum working pressure



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

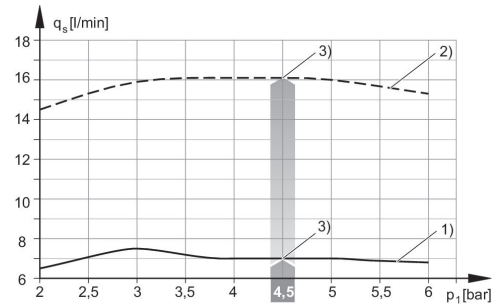


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm  
3) optimum working pressure

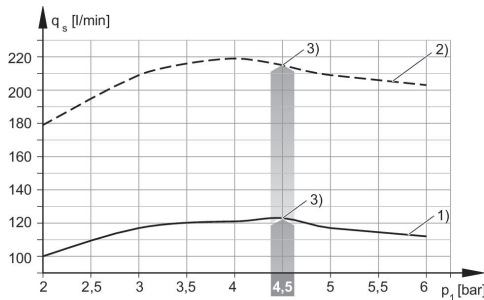


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm  
3) optimum working pressure

## Suction capacity qs depending on working pressure p1

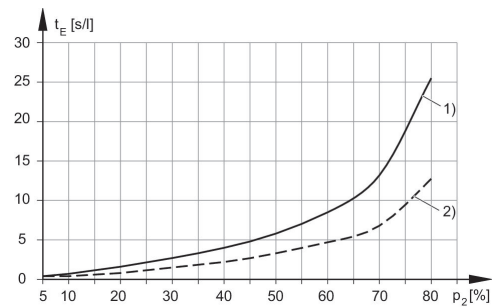


1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm  
3) optimum working pressure

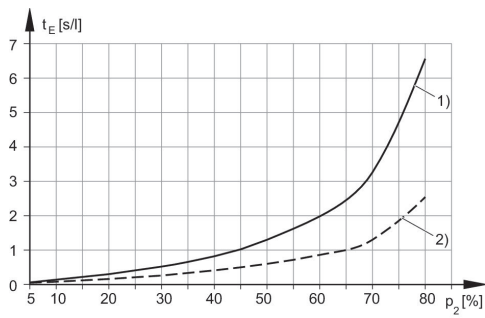


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm  
3) optimum working pressure

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

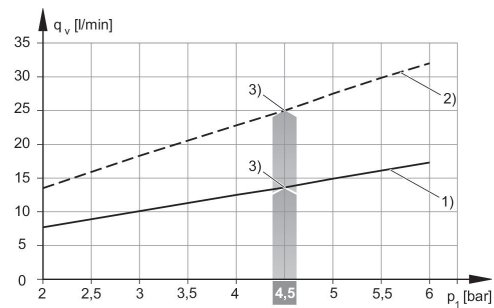


1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm

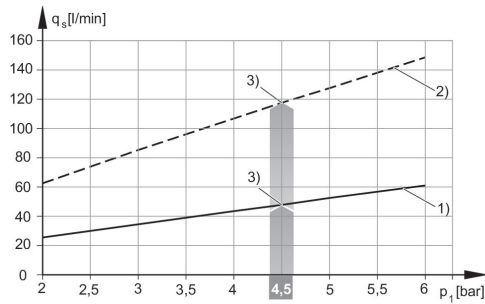


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm

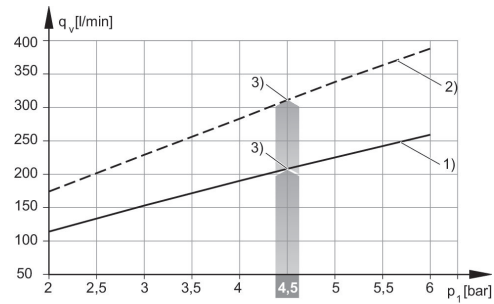
## Air consumption $q_v$ depending on working pressure $p_1$



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