Ejector, Series EBS

R412007484

2024-02-20

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	Thread connection
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/m³
Max. oil content of compressed air	1 mg/m³
Max. particle size	5 µm
Compressed air connection	G 1/4
Vacuum connection+	G 3/8
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

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	0.143 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.	R412007484

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

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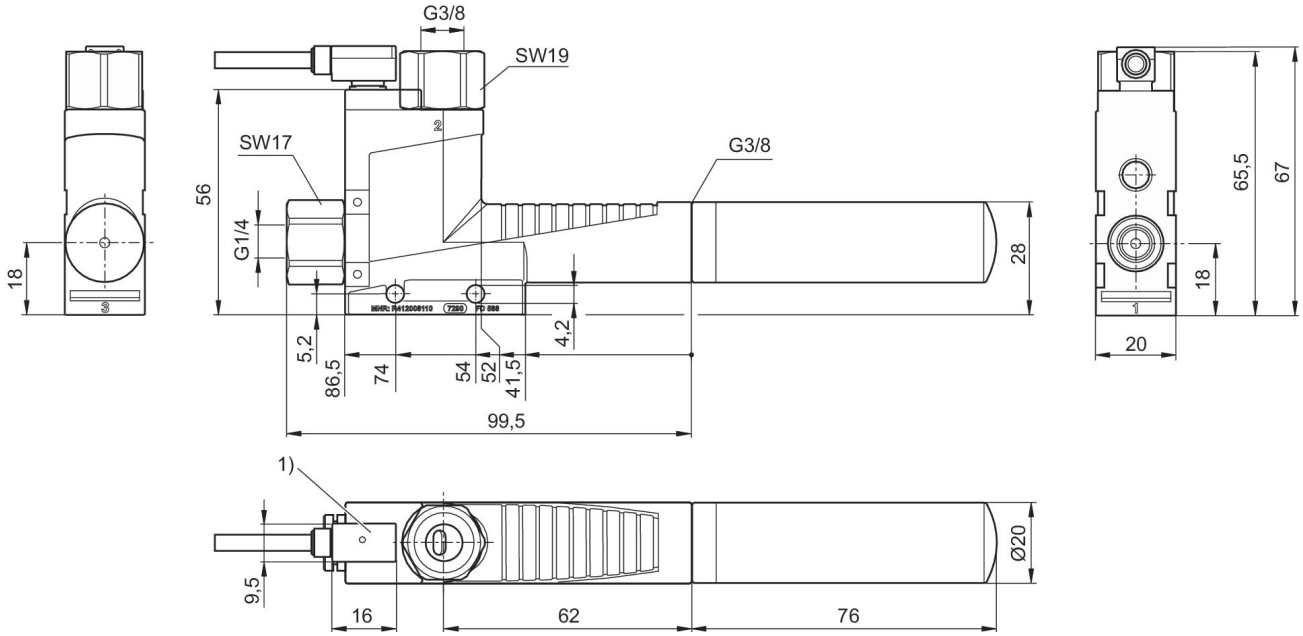

1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded

Fig. 2
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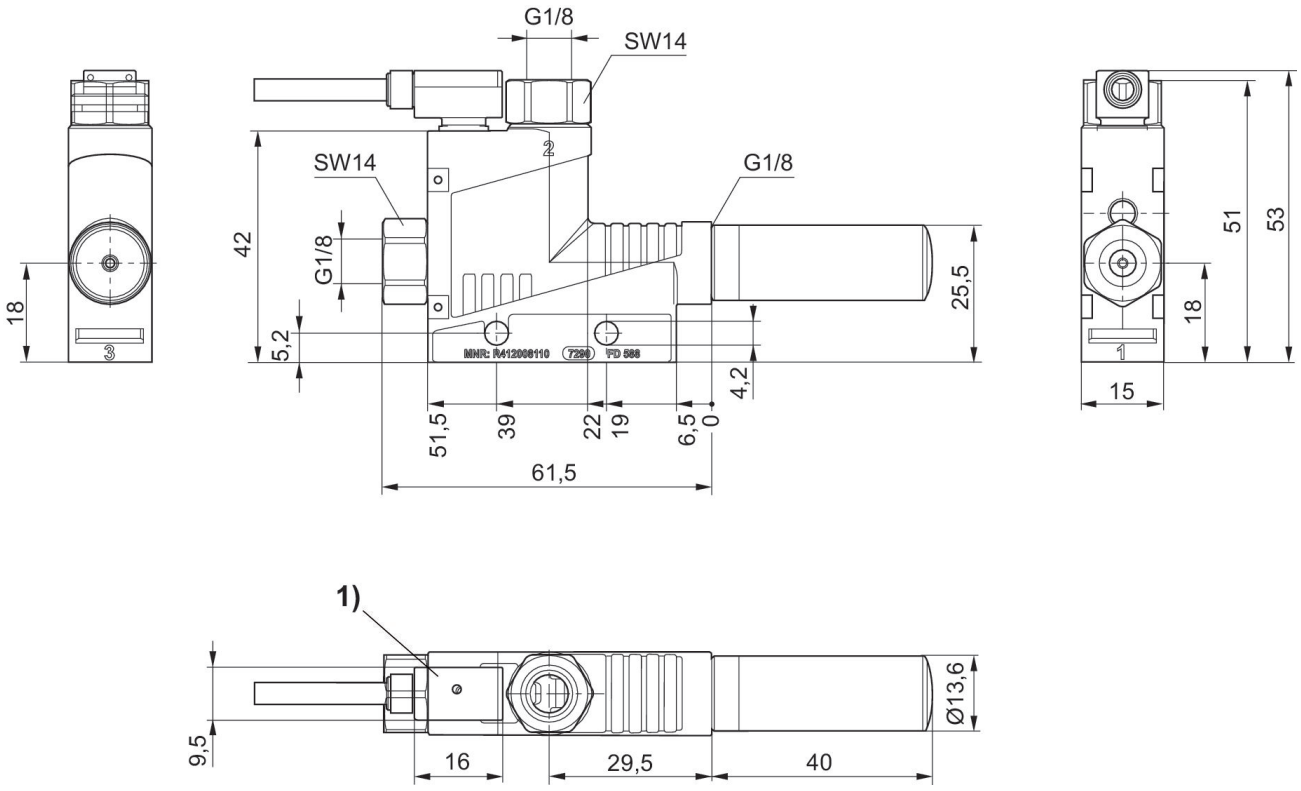

1) Vacuum switch is rotatable, not exchangeable
Cable length, 3 m, 3-wire, shielded

Fig. 1
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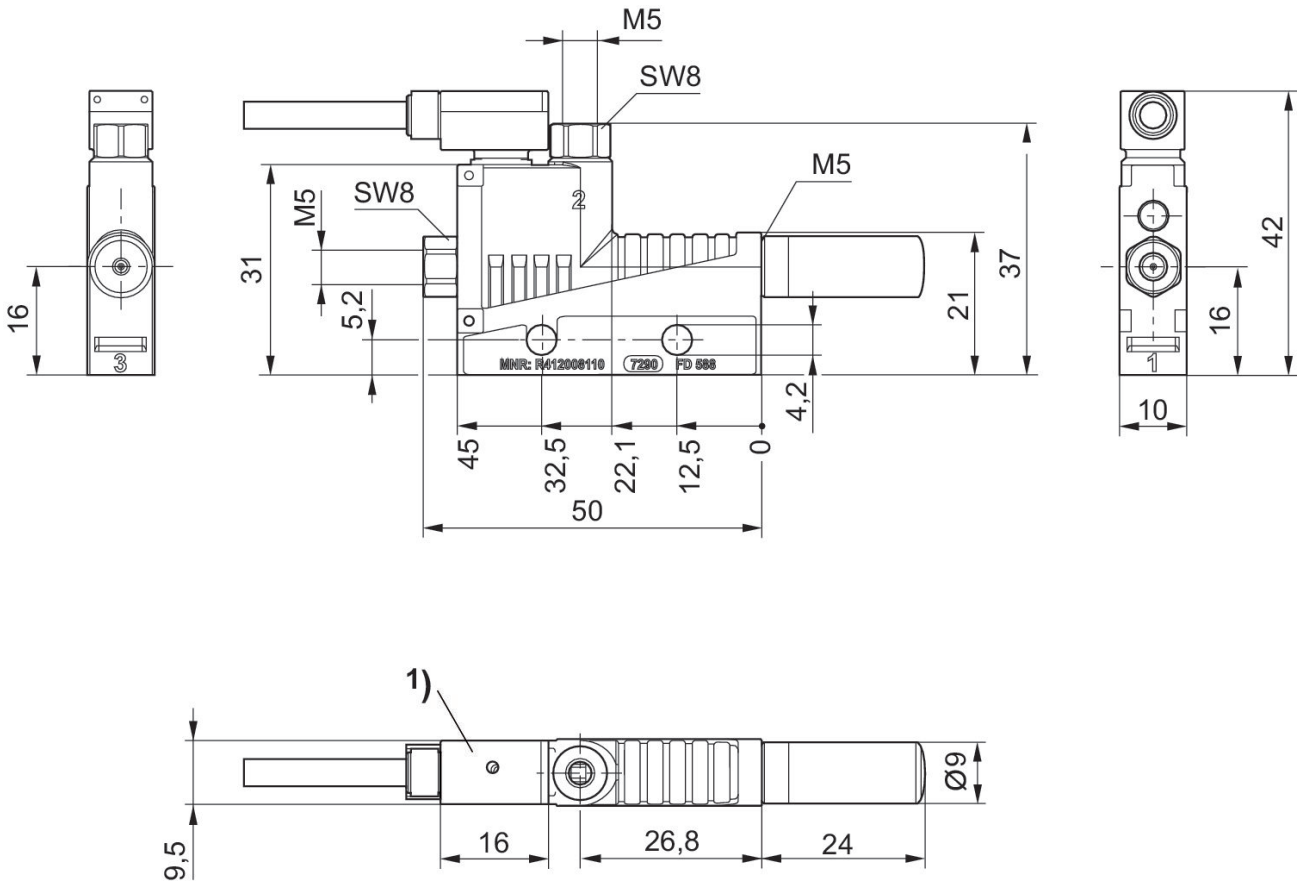

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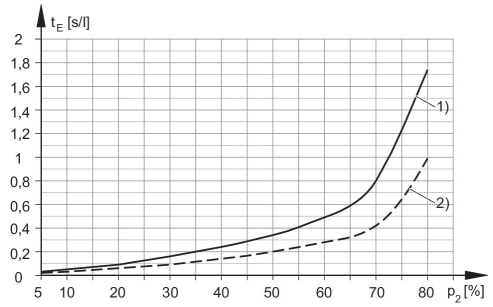
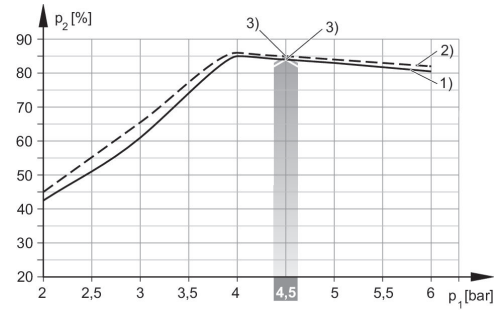
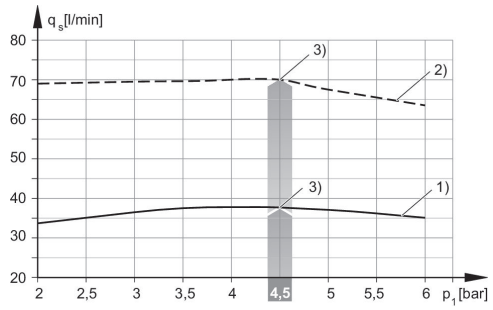


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm

Vacuum p2 depending on working pressure p1



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



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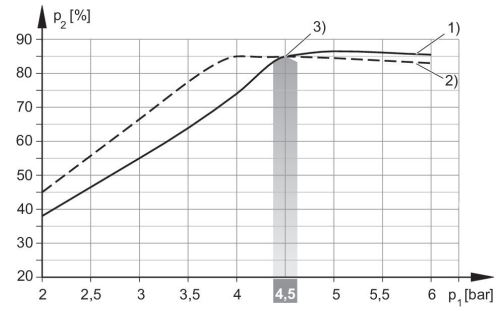

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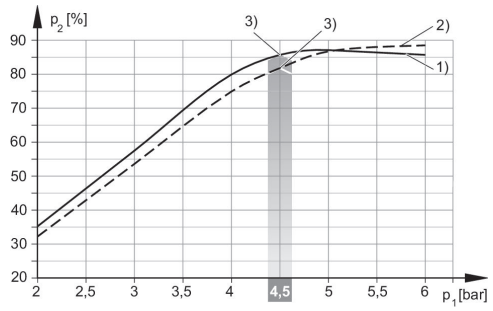

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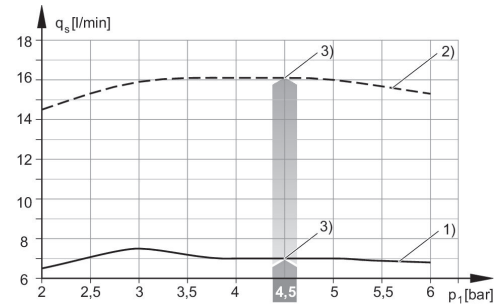
Suction capacity qs depending on working pressure p1



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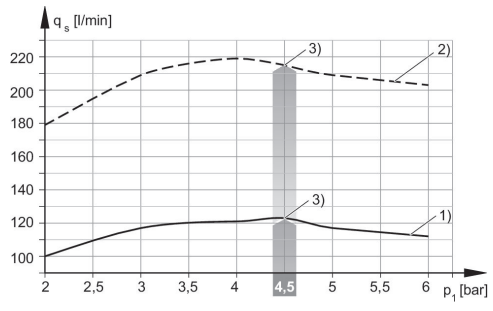

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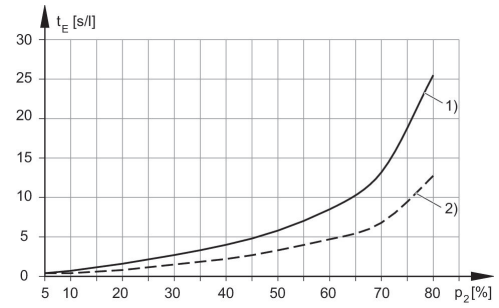
Evacuation time tE depending on vacuum p2 for 1 l volume (with optimal operating pressure p1opt)



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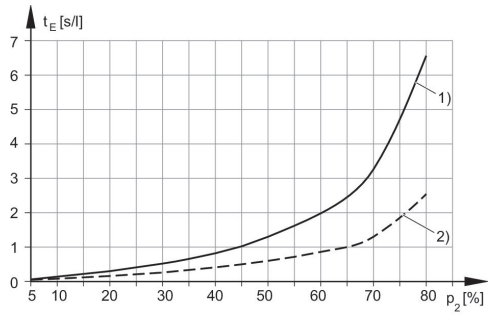

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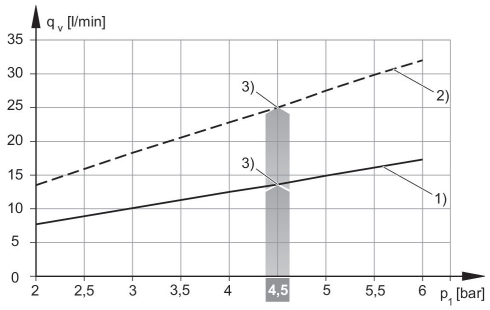
Air consumption qv depending on working pressure p1



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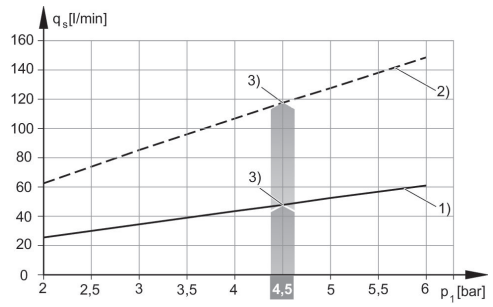

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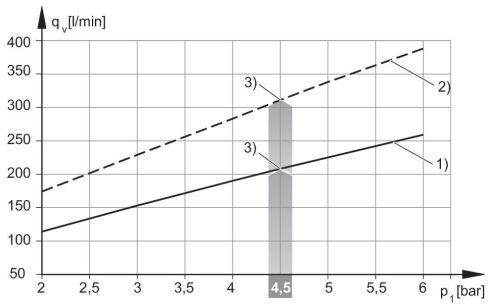

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