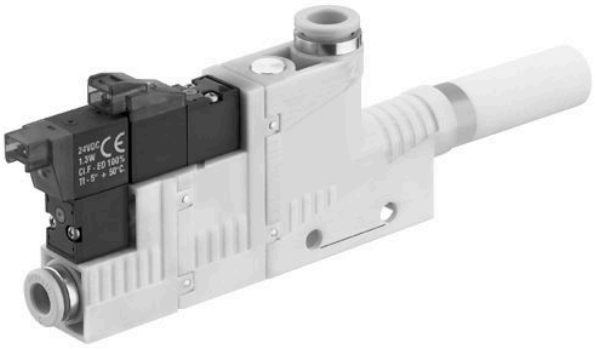
Ejector, Series EBS

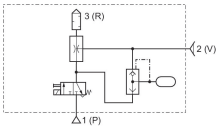
R412007461

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	push-in fitting
Type	Ejector
Version	electrical control, T-design
with silencer	with silencer
Nozzle Ø	0.5 mm
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	Ø 4
Vacuum connection+	Ø 4

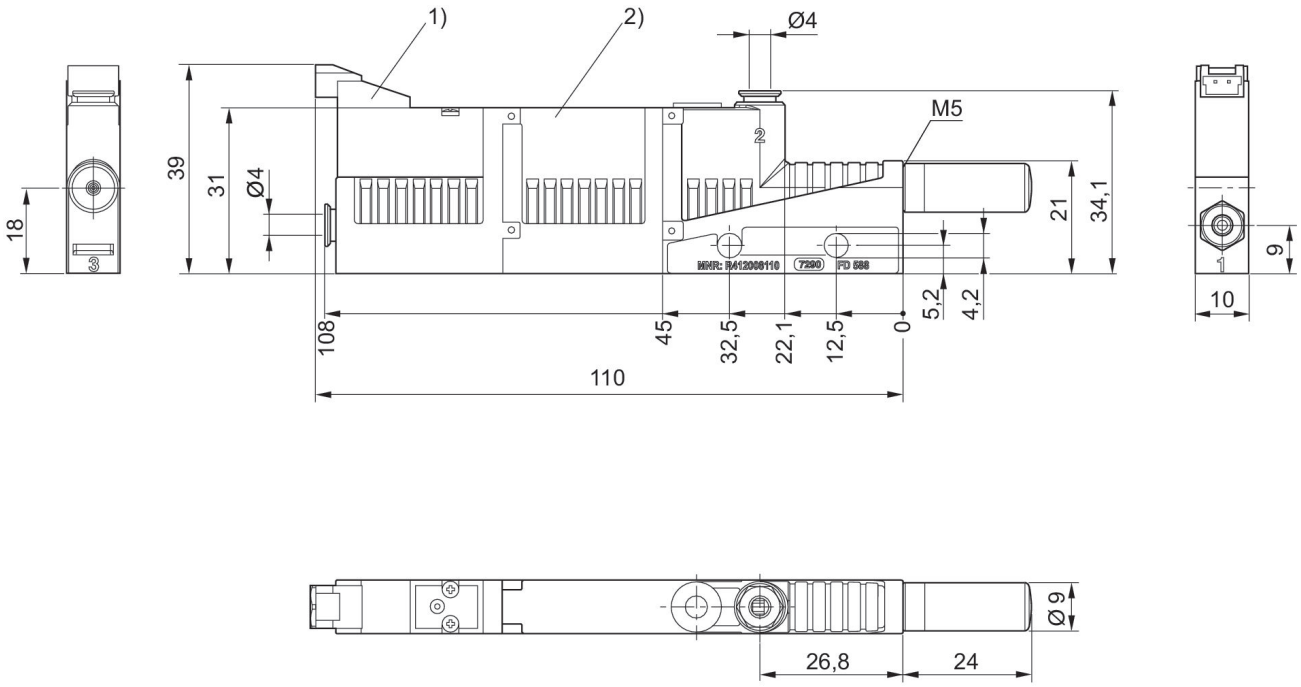
Max. suction capacity	7.5 l/min
Air consumption at p.opt.	14 l/min
Max. vacuum level at p.opt	84 %
Sound pressure level intake effect	53 dB
Sound pressure level intake effect	58 dB
release valve	release valve
Display	LED
Protection class according to EN 60529:2000, without electrical connector	IP40
Operational voltage DC	24 V
Voltage tolerance DC	- 5% / +10%
Power consumption solenoid valve	1.3 W
Weight	0.035 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Aluminum
Material release ring	Polyamide
Silencer material	Polyethylene
Part No.	R412007461

Technical information

Note: All data refers to an ambient pressure of [[1,013] bar] and an ambient temperature of [[20]°C].

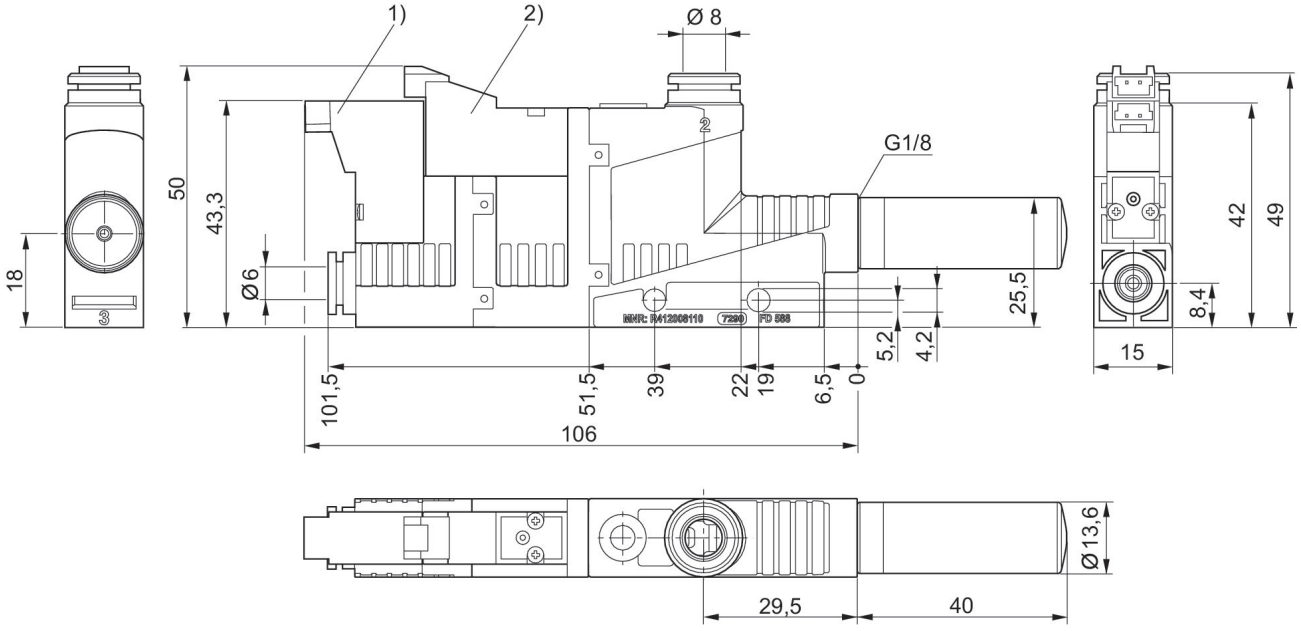
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Fig. 1



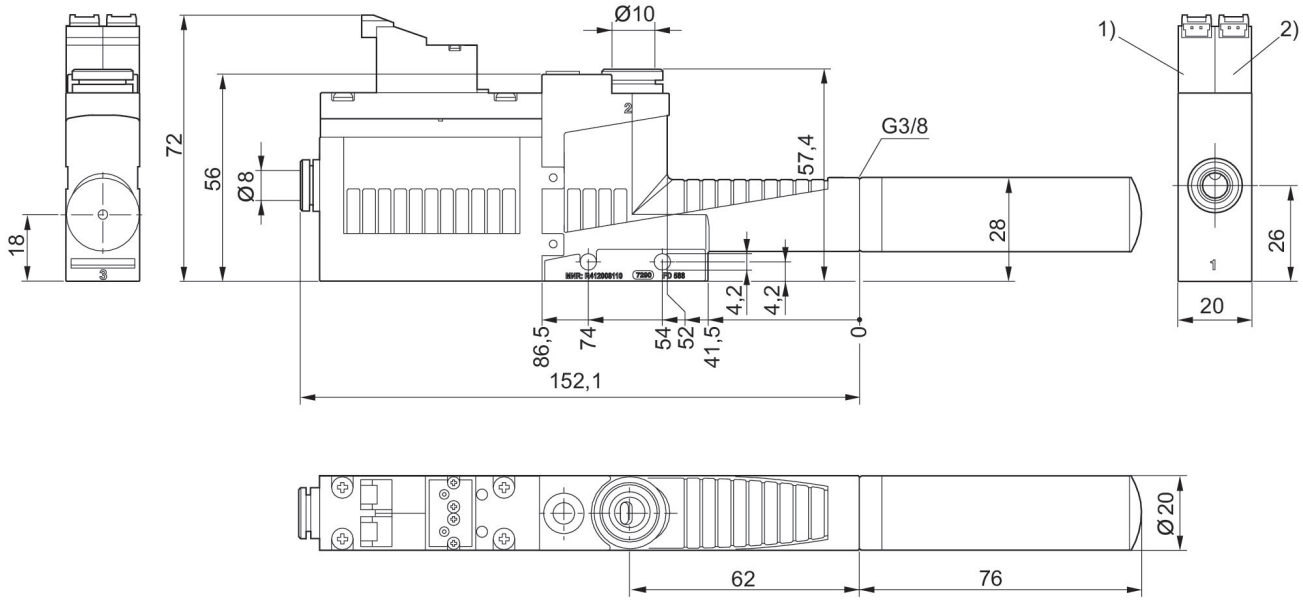
1) Solenoid valve for vacuum ON/OFF
2) Release valve from memory

Fig. 2



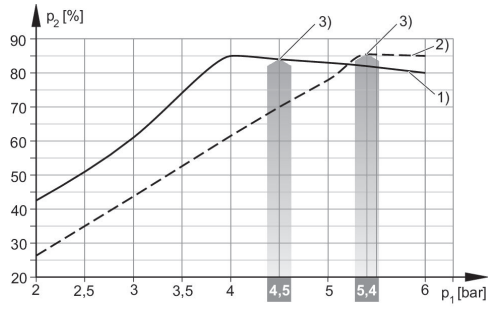
1) Solenoid valve for vacuum ON/OFF
2) Solenoid valve for release pulse

Fig. 3

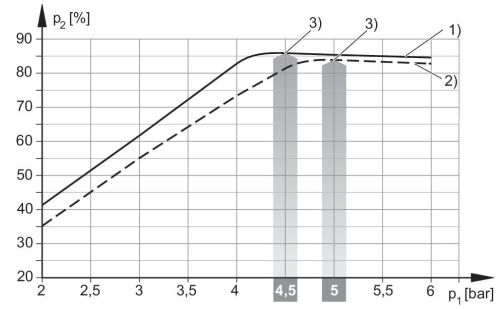


1) Solenoid valve for vacuum ON/OFF
2) Solenoid valve for release pulse

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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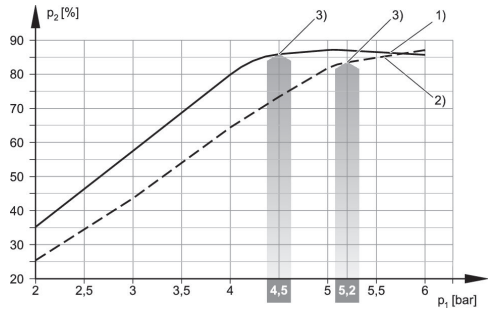

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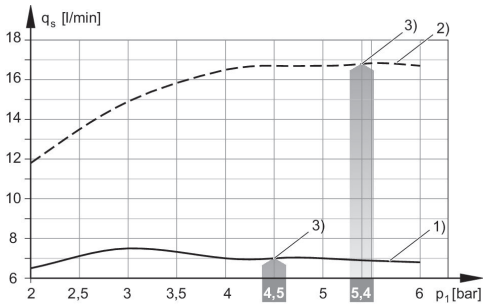
Suction capacity qs depending on working pressure p1



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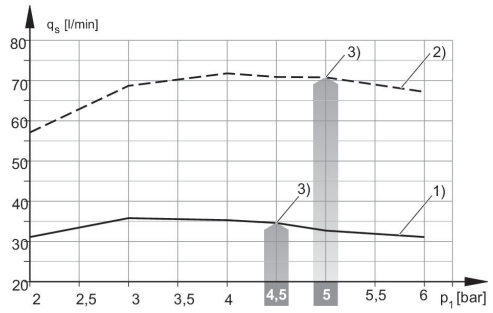

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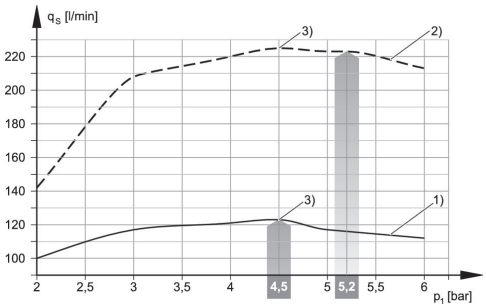

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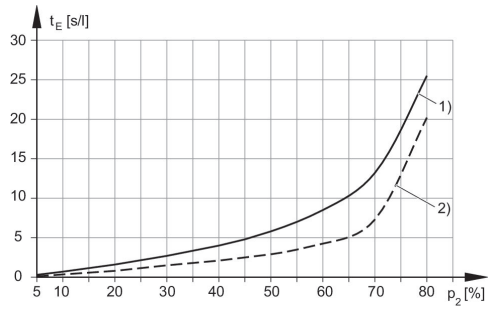
Evacuation time tE depending on vacuum p2 for 1 l volume (with optimal operating pressure p1opt)



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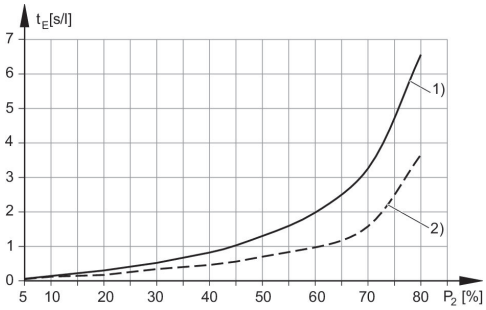

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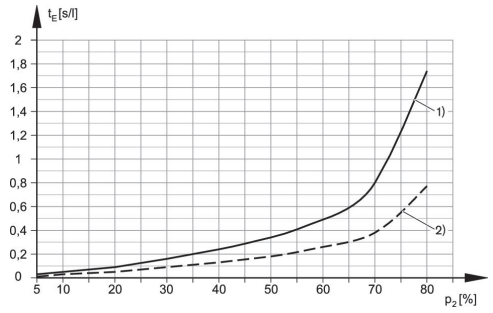

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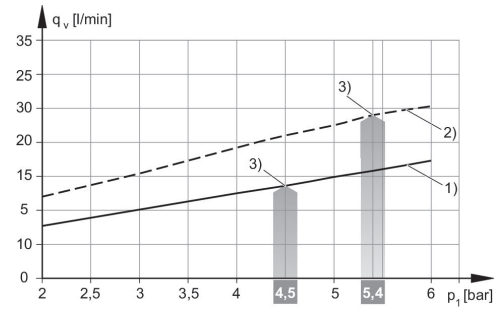
Air consumption qv depending on working pressure p1



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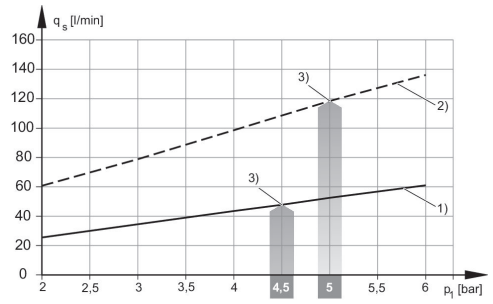

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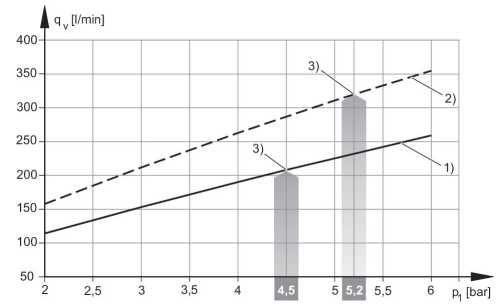

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