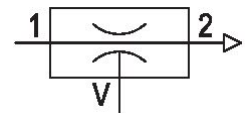


AVENTICS Series EBS Ejectors

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	Pneumatically
Note	push-in fitting
Type	Ejector
Version	pneumatic control, T-design
with silencer	with silencer
Nozzle Ø	1 mm
Min. working pressure	3 bar
Max. working pressure	6 bar
Min. ambient temperature	0 °C
Max. ambient temperature	60 °C
Min. medium temperature	0 °C
Max. medium temperature	60 °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 6
Vacuum connection+	Ø 8

Ejector, Series EBS

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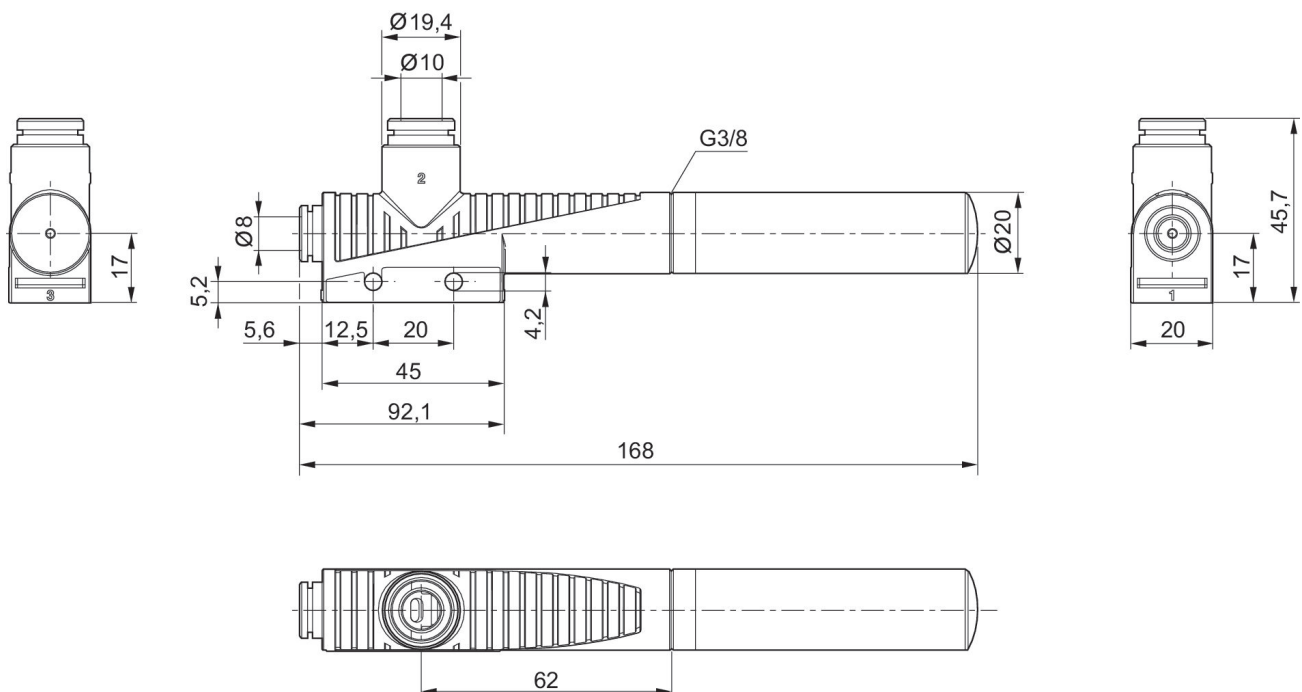
R412007451

Max. suction capacity	38 l/min
Air consumption at p.opt.	48 l/min
Max. vacuum level at p.opt.	85 %
Sound pressure level intake effect	59 dB
Sound pressure level intake effect	65 dB
Weight	0.02 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Aluminum
Material release ring	Polyamide
Silencer material	Polyethylene
Part No.	R412007451

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

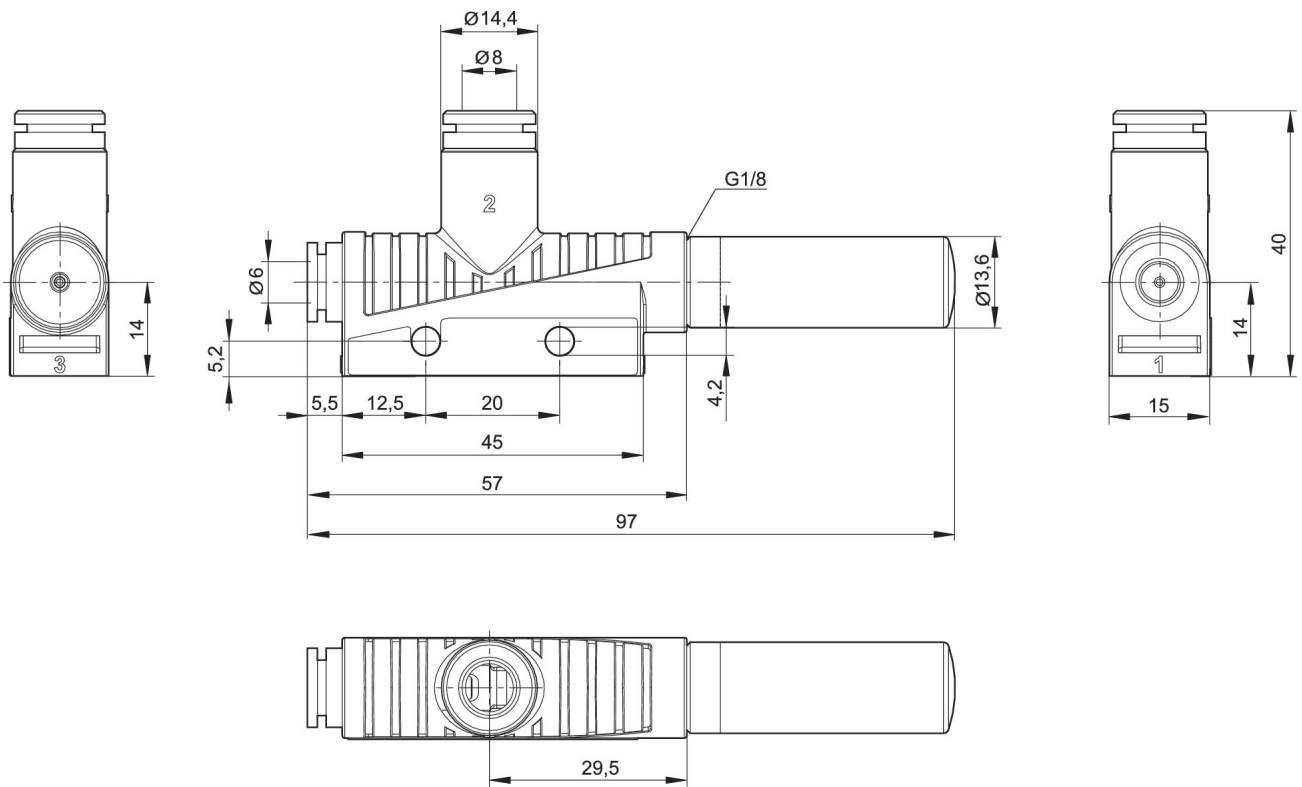


Ejector, Series EBS

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Fig. 2

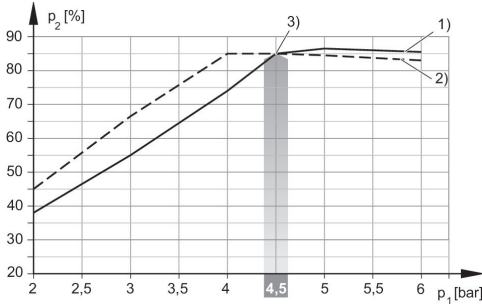
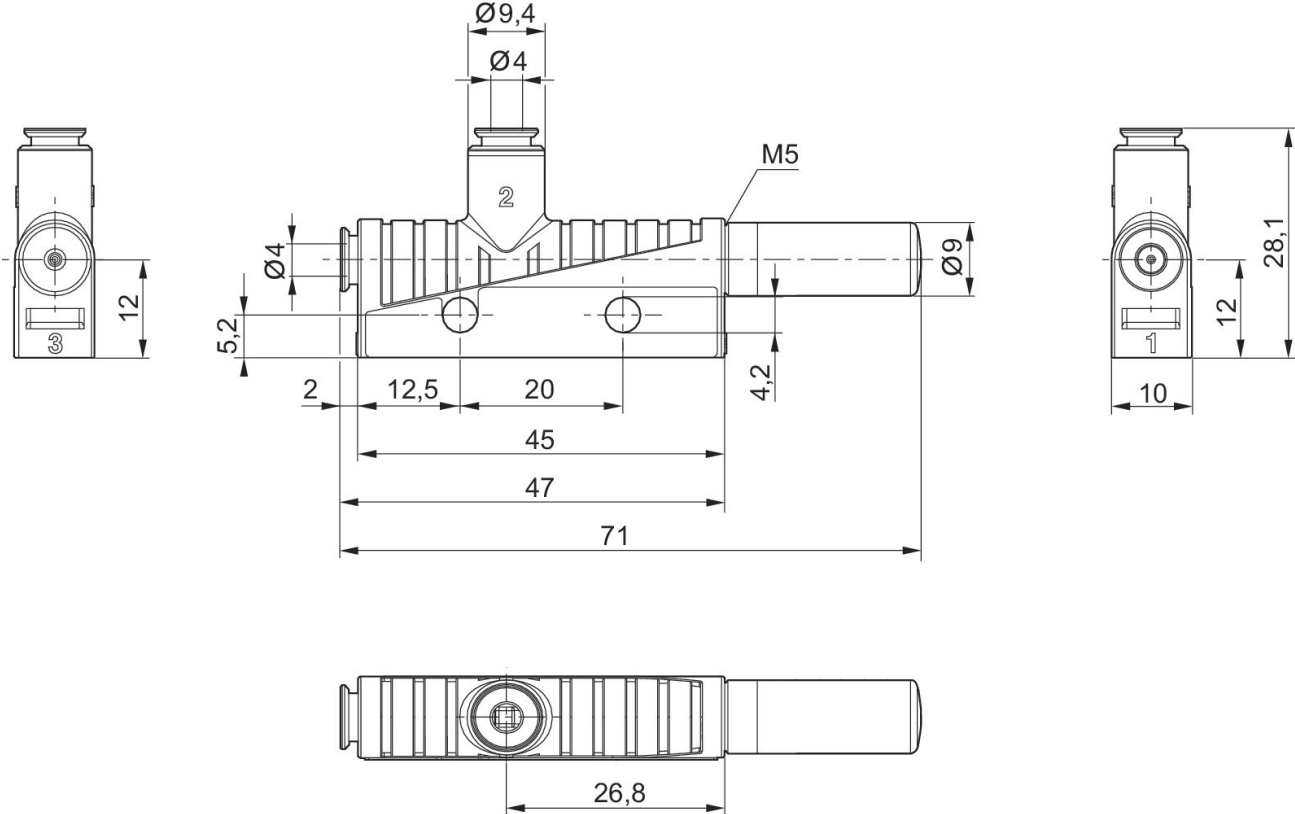


Ejector, Series EBS

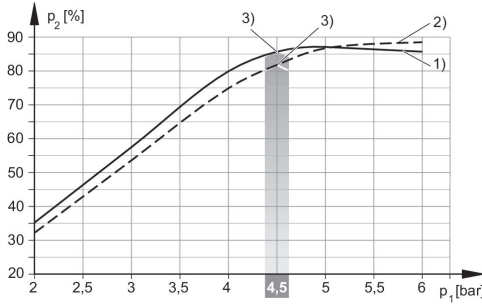
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Fig. 1



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

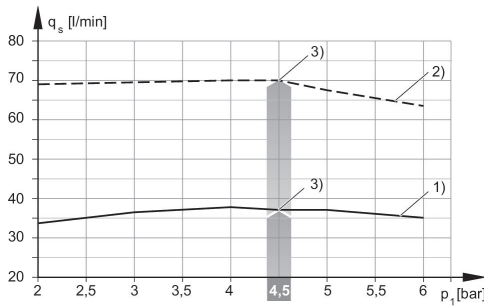


1) = \varnothing nozzle 2.0 mm 2) = \varnothing nozzle 2.5 mm
3) optimum working pressure

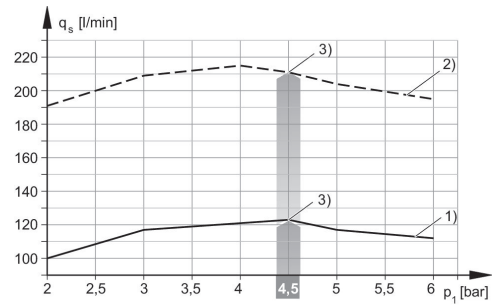
Ejector, Series EBS

2024-02-20

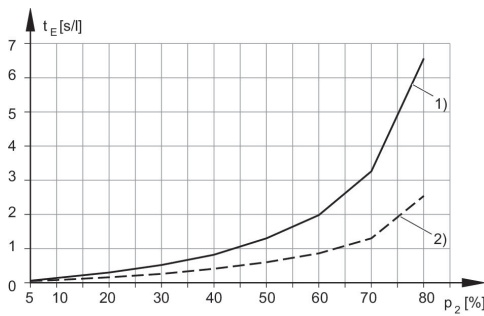
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1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm
3) optimum working pressure

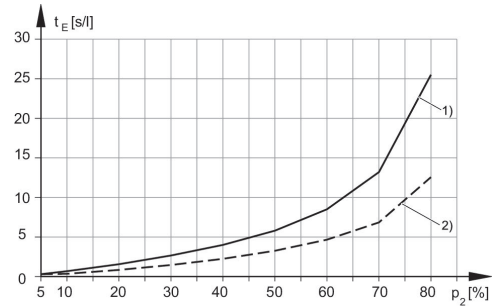


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

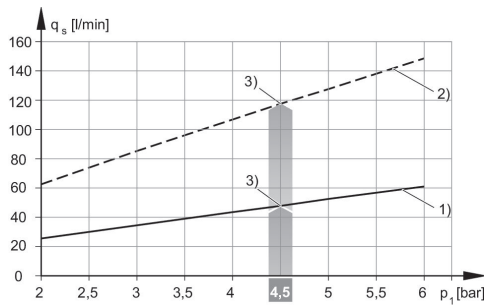


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm

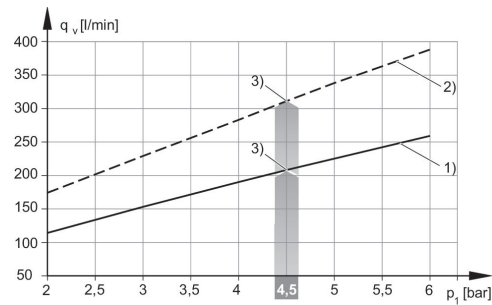
Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})



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

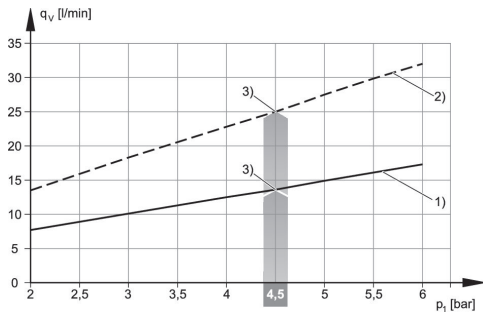


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm
3) optimum working pressure

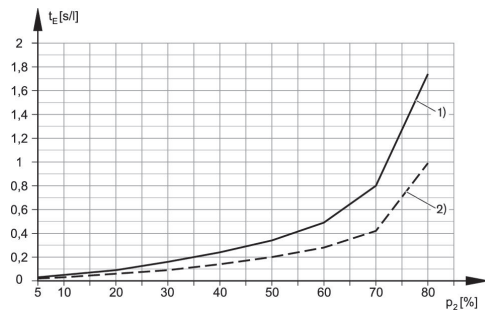


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

Air consumption q_v depending on working pressure p_1

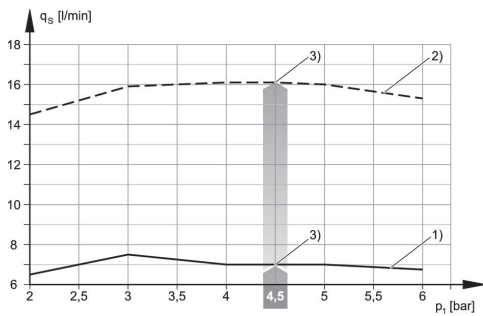


1) = \varnothing nozzle 0.5 mm 2) = \varnothing nozzle 0.7 mm
3) optimum working pressure



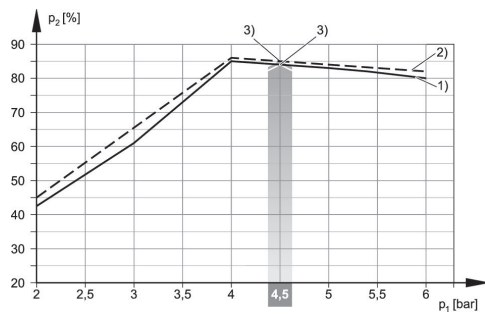
1) = \varnothing nozzle 2.0 mm 2) = \varnothing nozzle 2.5 mm

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

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