

Ejector, Series EBS

- Thread connection
- pneumatic control, T-design
- with silencer



Type	Ejector
Version	pneumatic control, T-design
Activation	Pneumatically
Working pressure min./max.	3 ... 6 bar
Ambient temperature min./max.	0 ... 60 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m ³
Weight	See table

Technical data

Part No.	Type	Nozzle Ø	Compressed air connection	Vacuum connection+
R412007473	EBS-PT-05-NN	0,5 mm	M5	M5
R412007474	EBS-PT-07-NN	0,7 mm	M5	M5
R412007475	EBS-PT-10-NN	1 mm	G 1/8	G 1/8
R412007476	EBS-PT-15-NN	1,5 mm	G 1/8	G 1/8
R412007477	EBS-PT-20-NN	2 mm	G 1/4	G 3/8
R412007478	EBS-PT-25-NN	2,5 mm	G 1/4	G 3/8

Part No.	Max. vacuum level at p.opt	Max. suction capacity	Air consumption at p.opt.
R412007473	84 %	7 l/min	14 l/min
R412007474	85 %	16 l/min	25 l/min
R412007475	85 %	38 l/min	48 l/min
R412007476	85 %	70 l/min	118 l/min
R412007477	86 %	123 l/min	208 l/min
R412007478	82 %	215 l/min	311 l/min

Part No.	Sound pressure level intake effect	Sound pressure level intake effect	Weight	Fig.
R412007473	53 dB	58 dB	0,008 kg	Fig. 1
R412007474	59 dB	65 dB	0,008 kg	Fig. 1
R412007475	59 dB	65 dB	0,022 kg	Fig. 2
R412007476	66 dB	72 dB	0,022 kg	Fig. 2
R412007477	68 dB	77 dB	0,048 kg	Fig. 3
R412007478	75 dB	78 dB	0,048 kg	Fig. 3

p.opt. = optimum working pressure

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 under ambient and medium temperature and may not exceed 3 °C .

Technical information

Material	
Housing	Polyamide, fiber-glass reinforced
Seal	Acrylonitrile butadiene rubber
Nozzle	Aluminum
Threaded bushing	Aluminum, anodized
Silencers	Polyethylene

Dimensions

Fig. 1

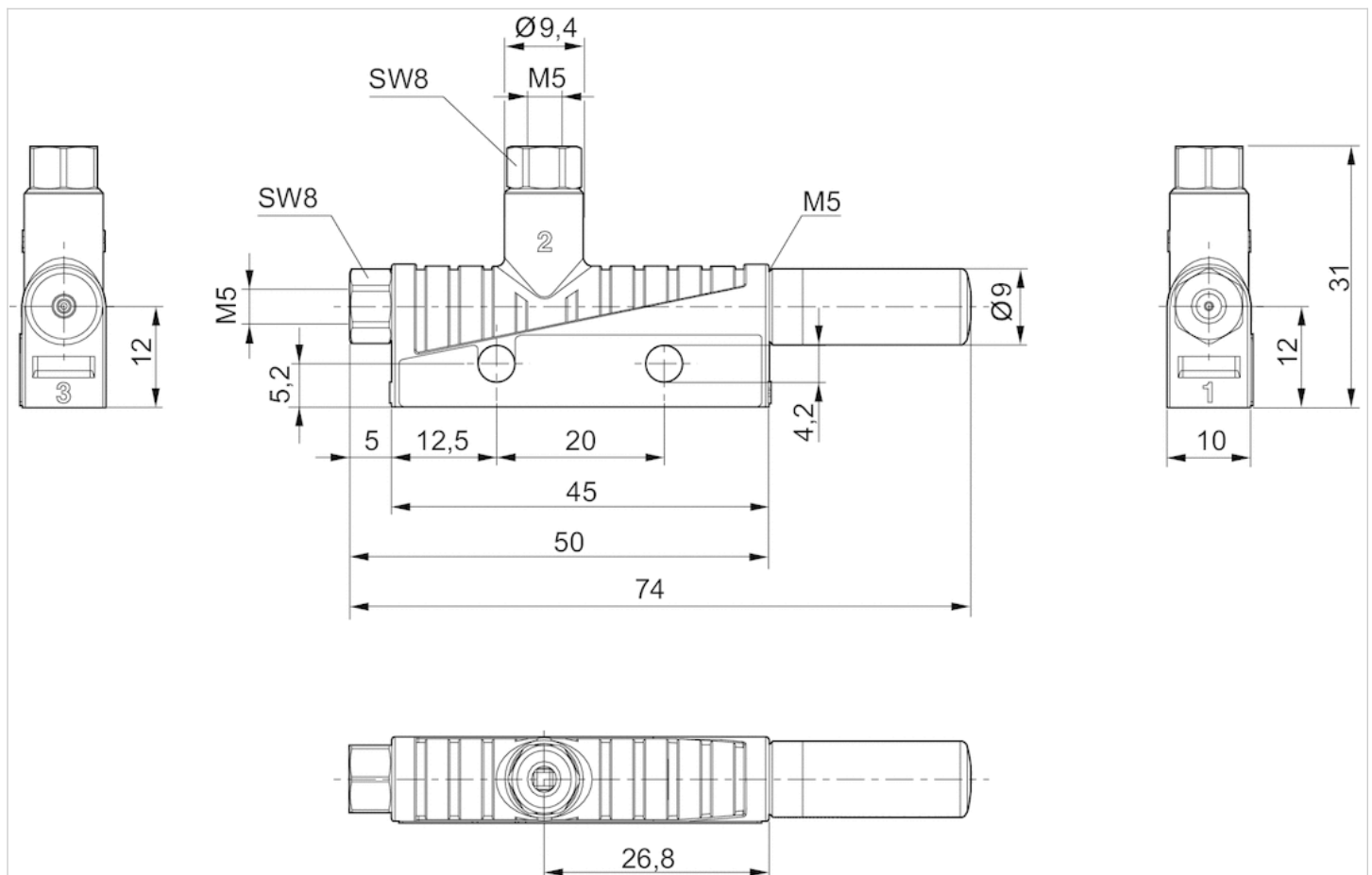


Fig. 2

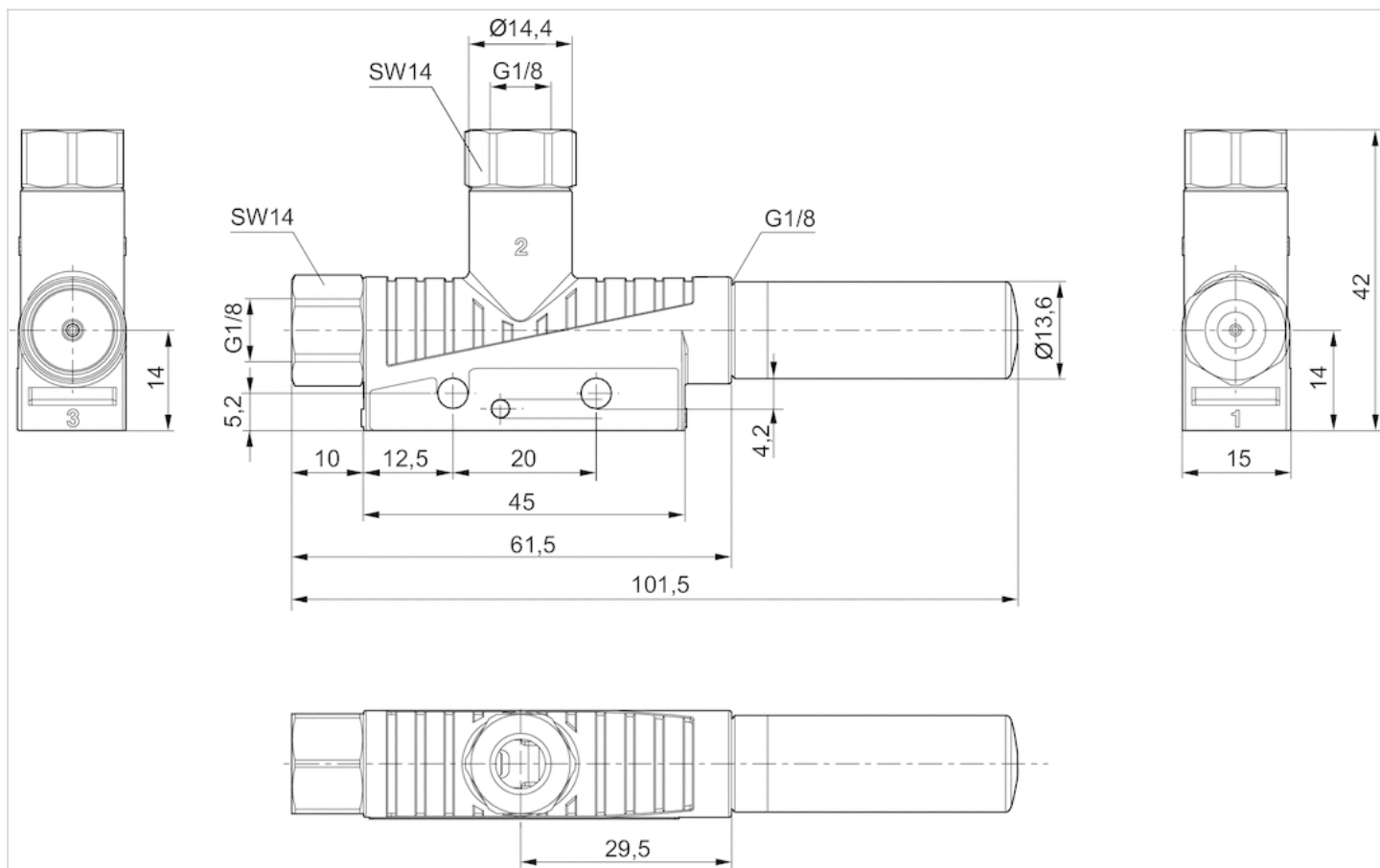
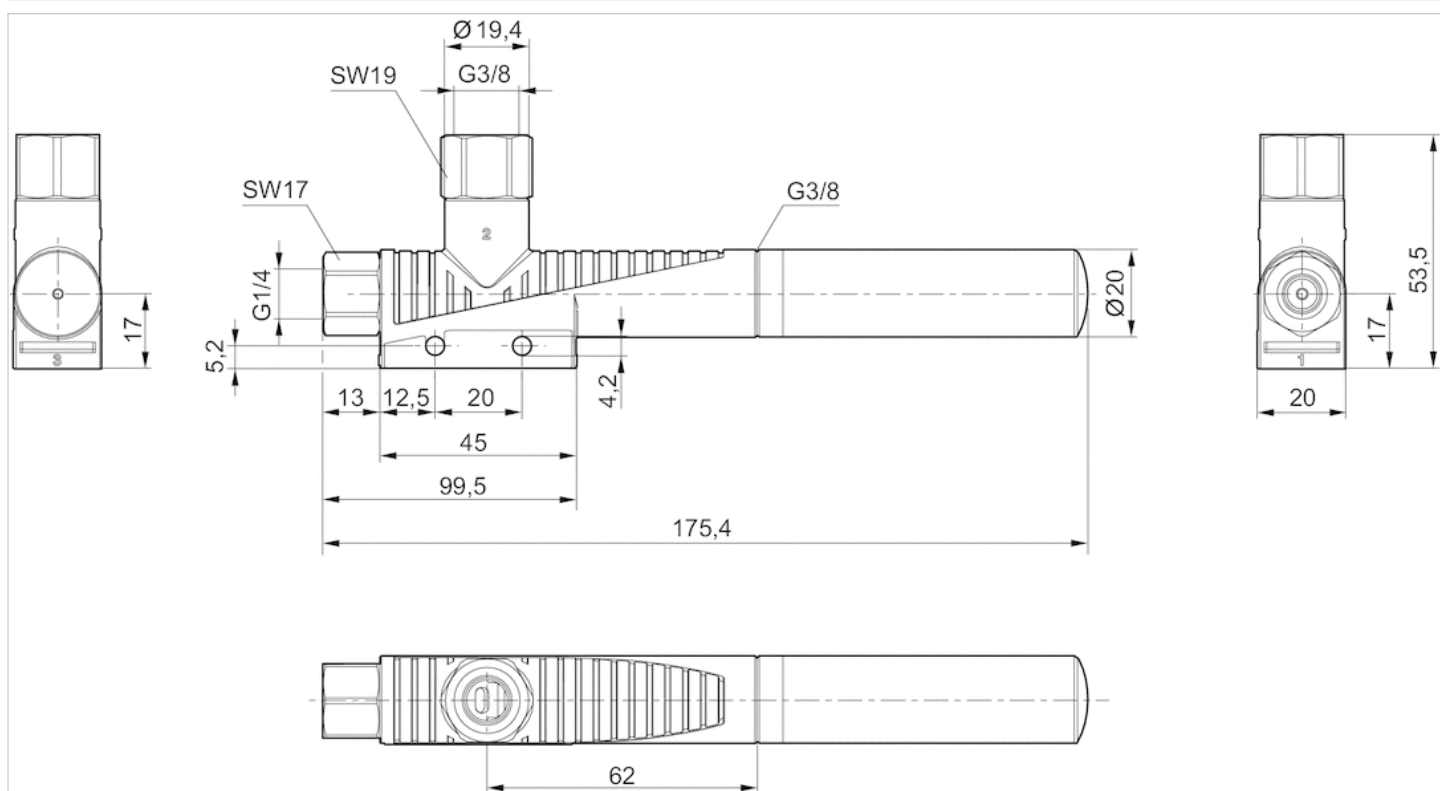
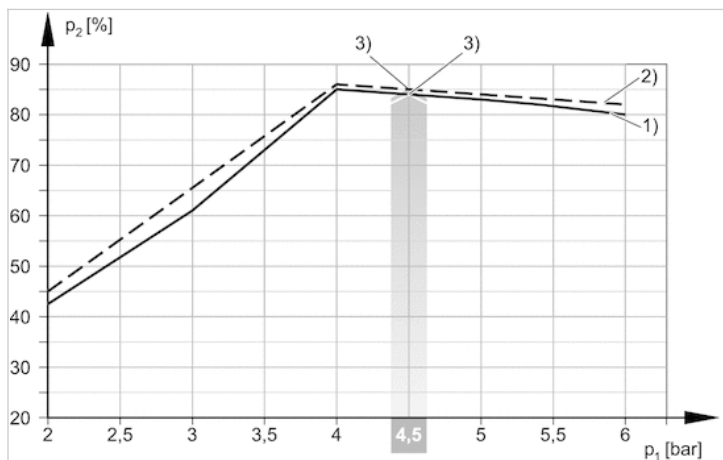


Fig. 3

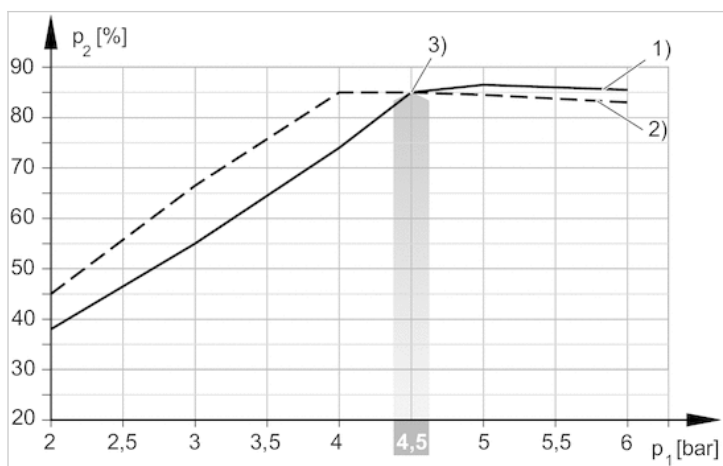


Diagrams

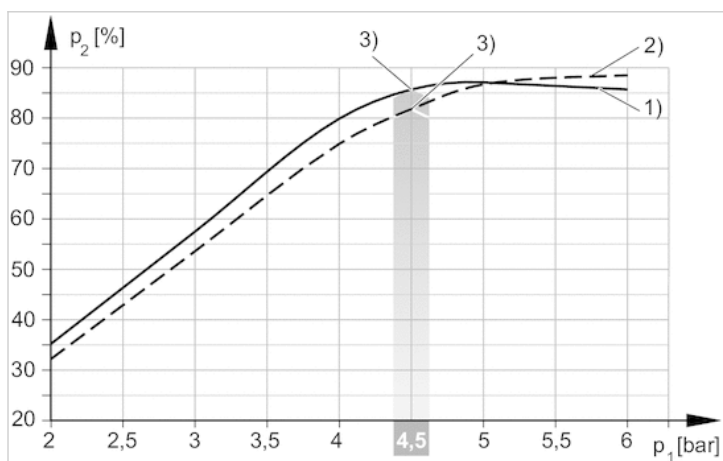
Vacuum p_2 depending on working pressure p_1



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

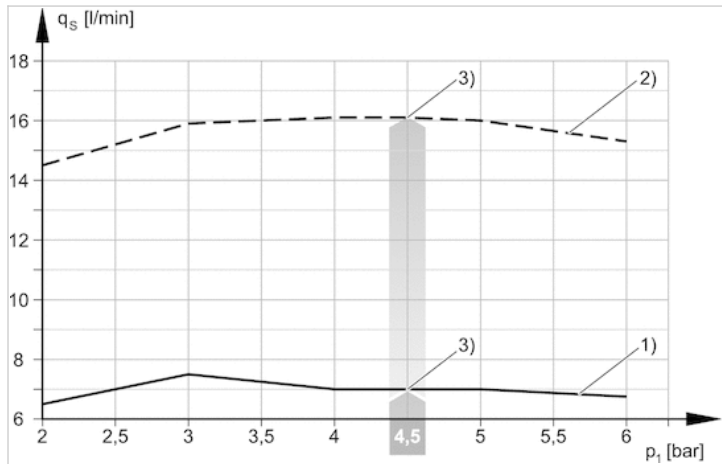


1) = \varnothing nozzle 1.0 mm 2) = \varnothing nozzle 1.5 mm
3) optimum working pressure

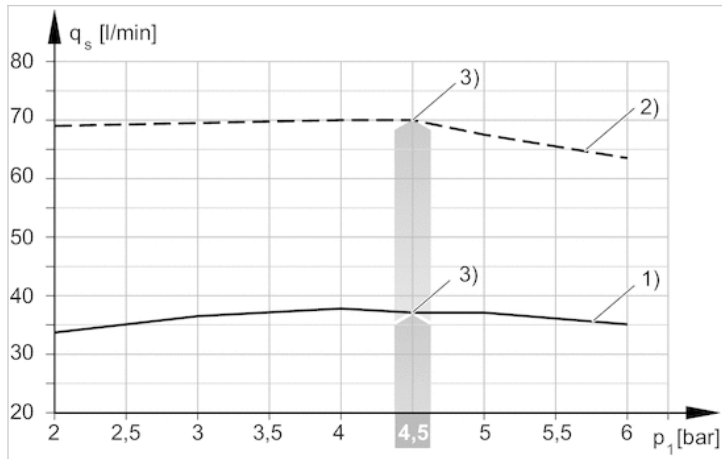


1) = \varnothing nozzle 2.0 mm 2) = \varnothing nozzle 2.5 mm
3) optimum working pressure

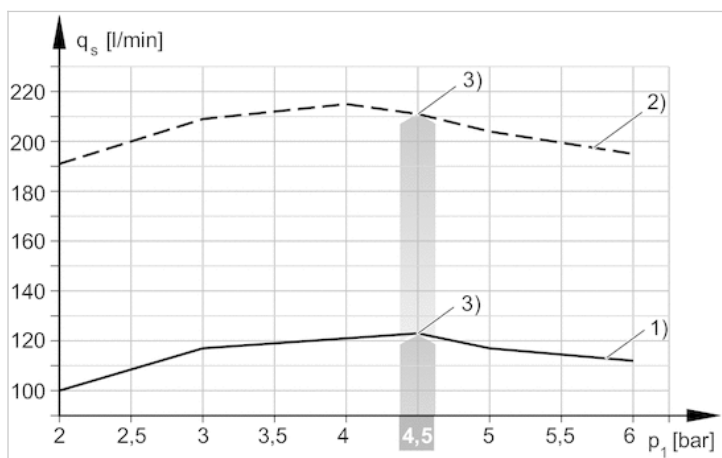
Suction capacity q_s depending on working pressure p_1



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

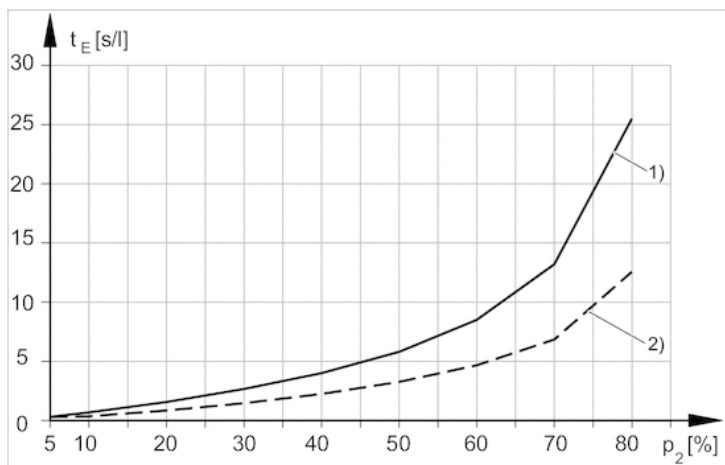


1) = \emptyset nozzle 1.0 mm 2) = \emptyset nozzle 1.5 mm
3) optimum working pressure

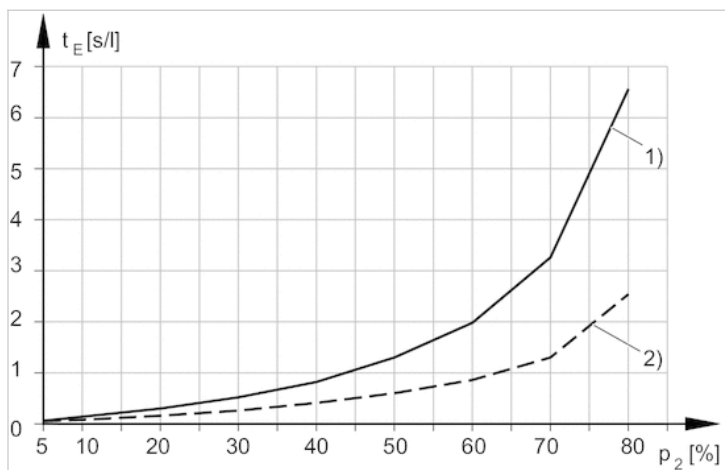


1) = \emptyset nozzle 2.0 mm 2) = \emptyset nozzle 2.5 mm
3) optimum working pressure

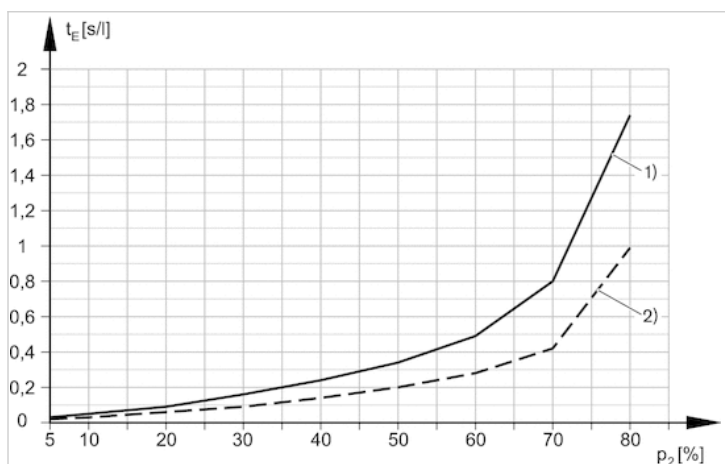
Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure)



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

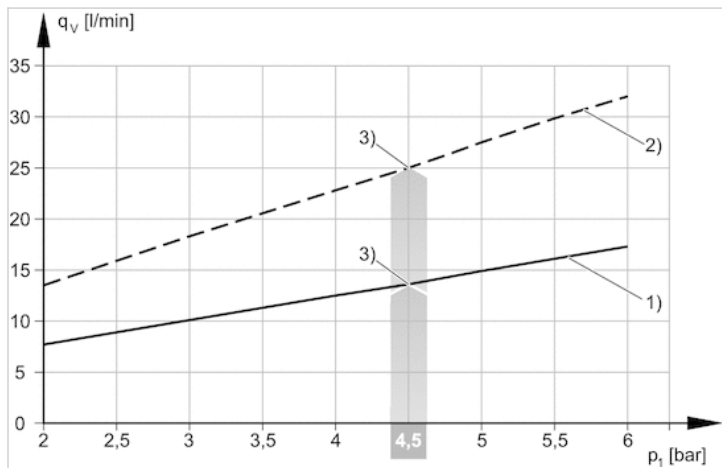


1) = Ø nozzle 1.0 mm 2) = Ø nozzle 1.5 mm

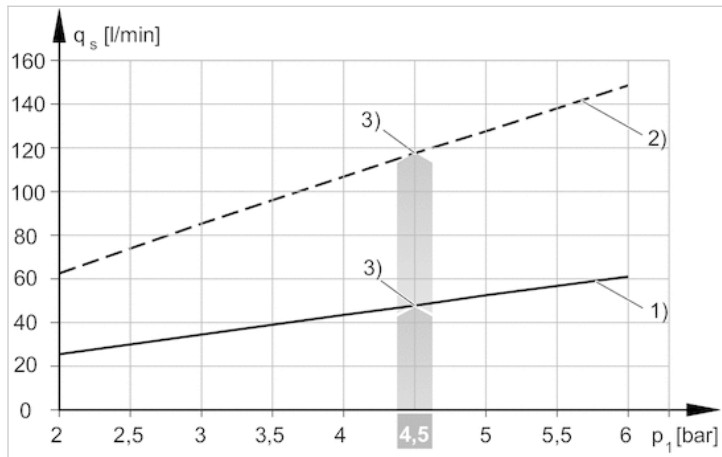


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm

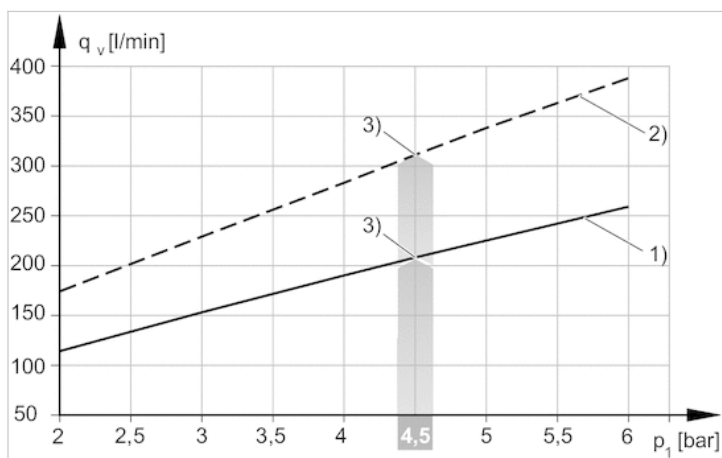
Air consumption q_v depending on working pressure p_1



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