UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Ejector, Series EBS

- push-in fitting
- electrical control, T-design
- with release valve
- with silencer
- vacuum switch electronic, adjustable

Type	Ejector
Version	electrical control, T-design
Activation	Electrically
vacuum switch	electronic, adjustable
Working pressure min./max.	3 ... 6 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m³
Protection class	IP40
Duty cycle according to DIN VDE 0580 standard	100 %
Hysteresis	2% of the final value, fixed
Precision (% of full scale value)	± 3 %
Repeatability (% of full scale value)	± 1 %
DC operating voltage	24 V
Voltage tolerance DC	- 5% / +10%
Power consumption Solenoid valve	1,3 W
Switching point	adjustable 0 ... 100%
Weight	See table below

Technical data

Part No.		Type	Nozzle Ø	Compressed air connection
R412010168		EBS-ET-05-NC	0,5 mm	Ø 4
R412010169		EBS-ET-07-NC	0,7 mm	Ø 4
R412010170		EBS-ET-10-NO	1 mm	Ø 6
R412010171		EBS-ET-15-NO	1,5 mm	Ø 6
R412010172		EBS-ET-20-NO	2 mm	Ø 8
R412010173		EBS-ET-25-NO	2,5 mm	Ø 8

Part No.	Vacuum connection+	Max. vacuum level at p.opt	Max. suction capacity
R412010168	Ø 4	84 %	7,5 l/min
R412010169	Ø 4	85 %	16,8 l/min
R412010170	Ø 8	86 %	35 l/min
R412010171	Ø 8	84 %	71 l/min
R412010172	Ø 8	86 %	123 l/min
R412010173	Ø 8	84 %	223 l/min

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Part No.	Air consumption at p.opt.	Sound pressure level intake effect
R412010168	14 l/min	53 dB
R412010169	24 l/min	65 dB
R412010170	48 l/min	59 dB
R412010171	118 l/min	71 dB
R412010172	208 l/min	68 dB
R412010173	320 l/min	70 dB

Part No.	Sound pressure level intake effect	Protection against overpressure (max.)	Weight	Fig.
R412010168	58 dB	5 bar	0,041 kg	Fig. 1
R412010169	68 dB	5 bar	0,041 kg	Fig. 1
R412010170	65 dB	5 bar	0,07 kg	Fig. 2
R412010171	71 dB	5 bar	0,07 kg	Fig. 2
R412010172	77 dB	5 bar	0,154 kg	Fig. 3
R412010173	78 dB	5 bar	0,154 kg	Fig. 3

NC = ejector line closed without current, NO = ejector suction line open without current, Output signal: 2 x PNP, NO (normally open contact), 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
Silencers	Polyethylene
Pressure sensor	Polycarbonate

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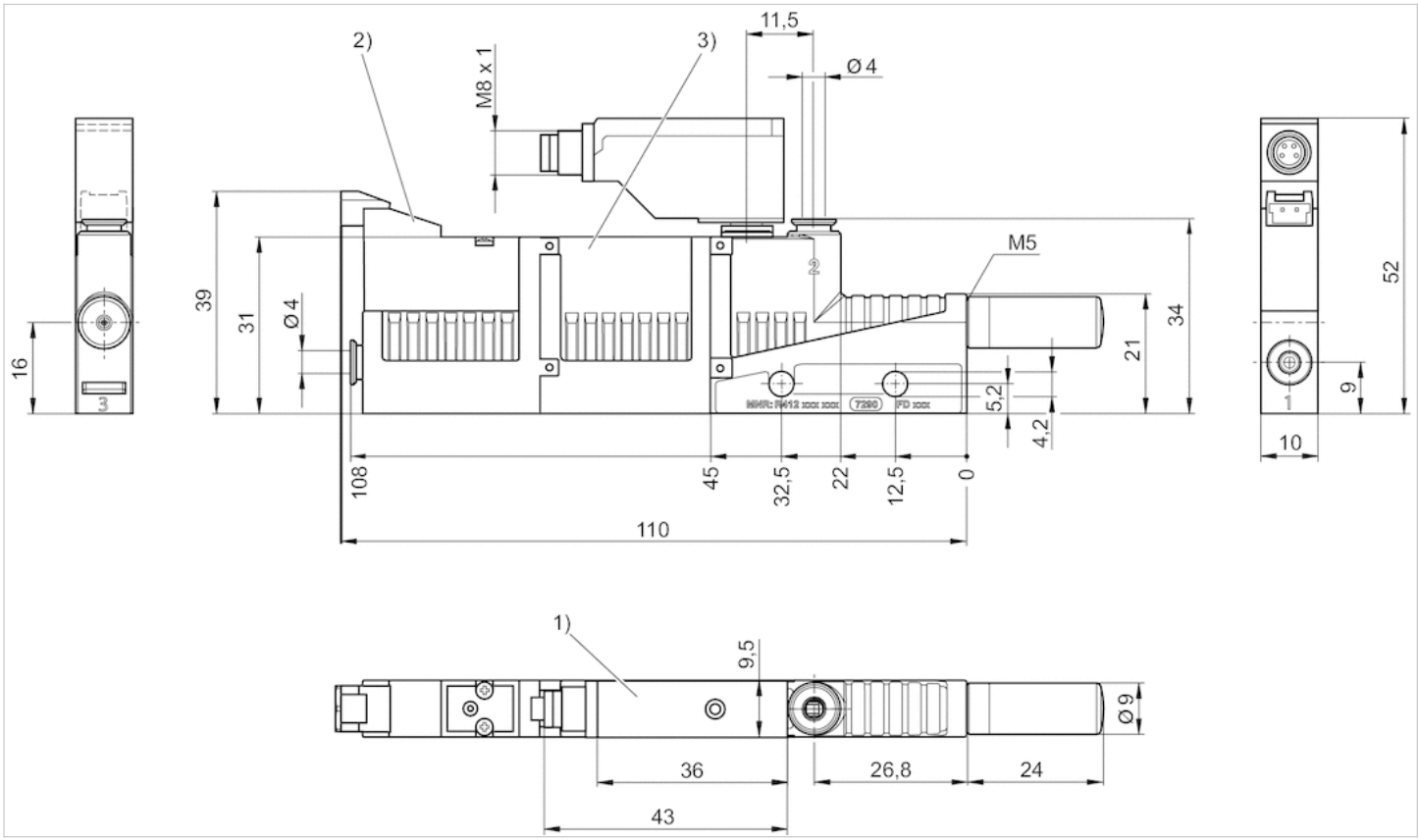
Dimensions

Fig. 1



1) vacuum switch is rotatable and exchangeable
2) Solenoid valve for vacuum ON/OFF
3) Release valve from memory

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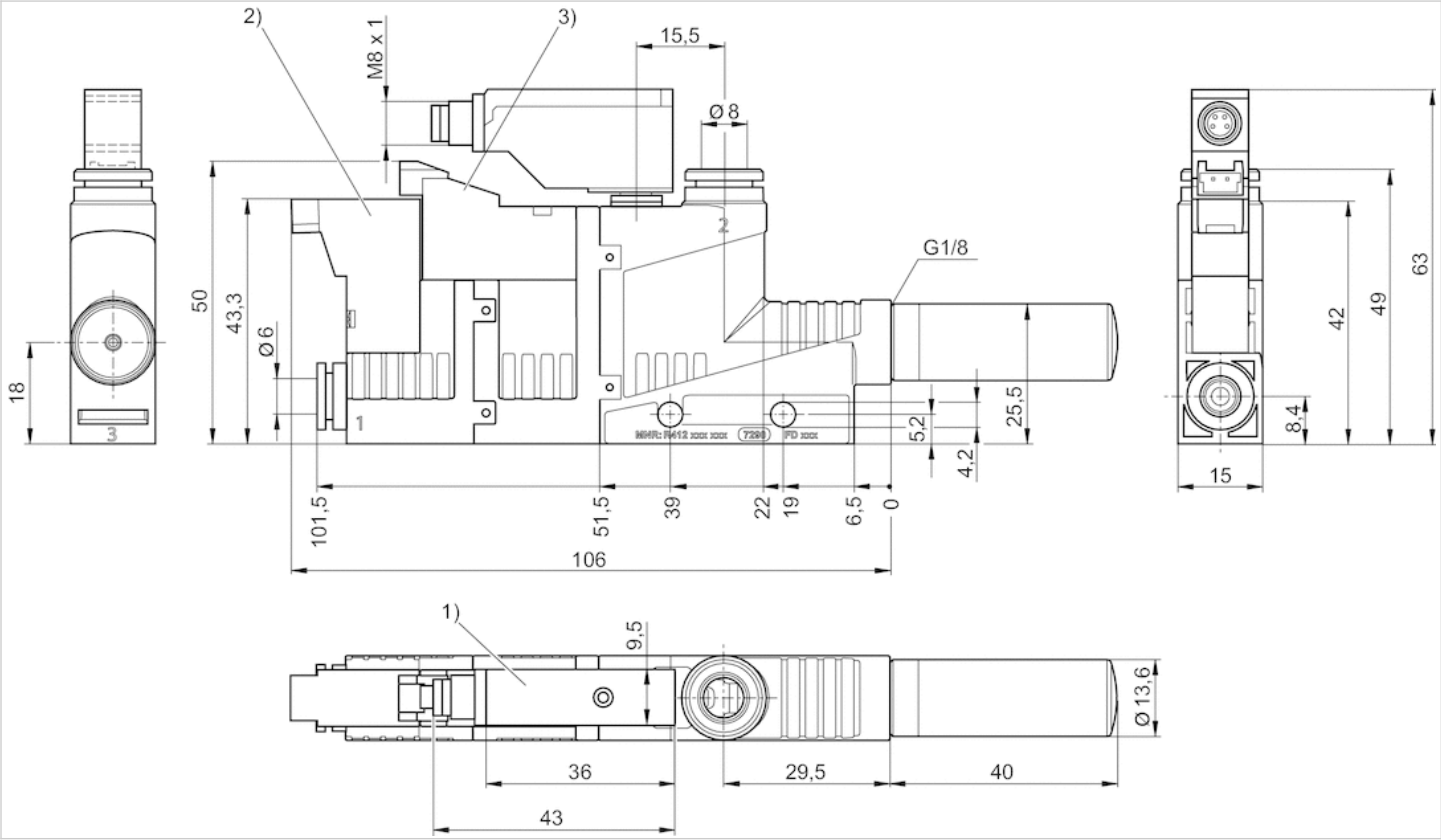
Fig. 2



1) vacuum switch is rotatable and exchangeable
2) Solenoid valve for vacuum ON/OFF
3) Solenoid valve for release pulse

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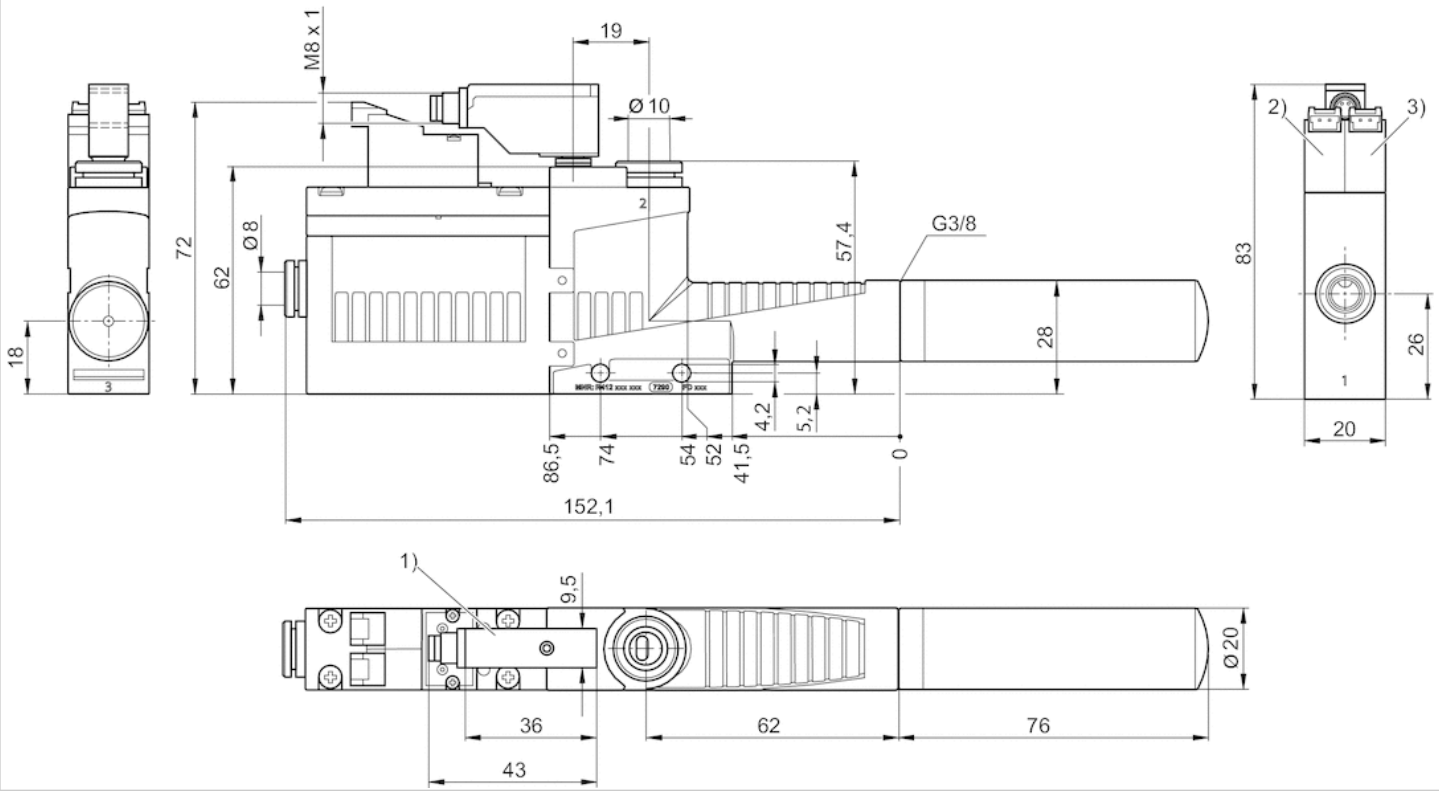
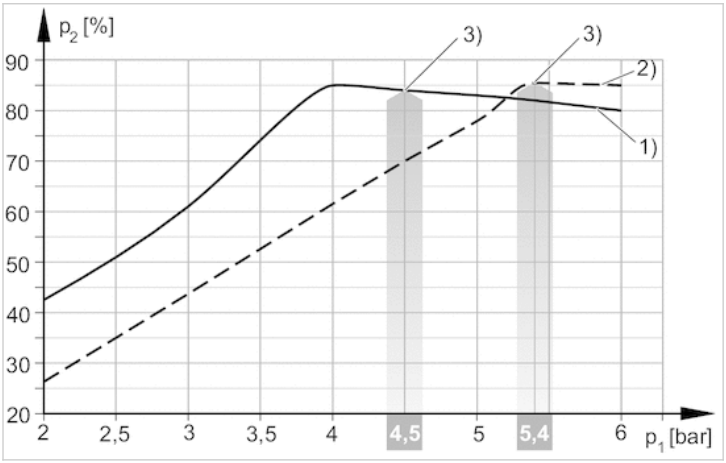
Fig. 3



1) vacuum switch is rotatable and exchangeable
2) Solenoid valve for vacuum ON/OFF
3) Solenoid valve for release pulse

Diagrams

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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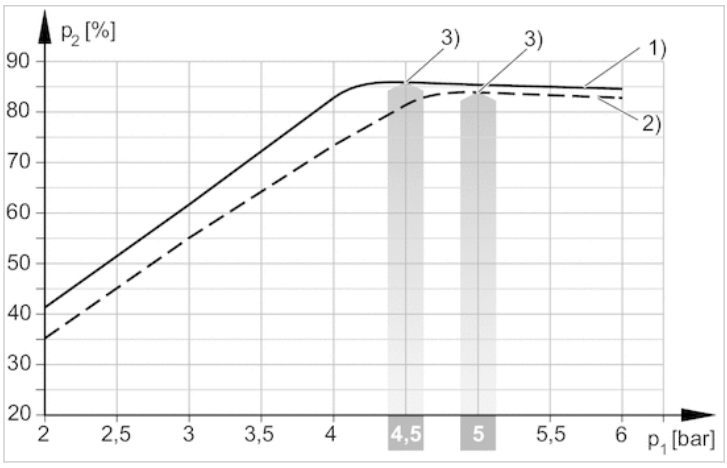

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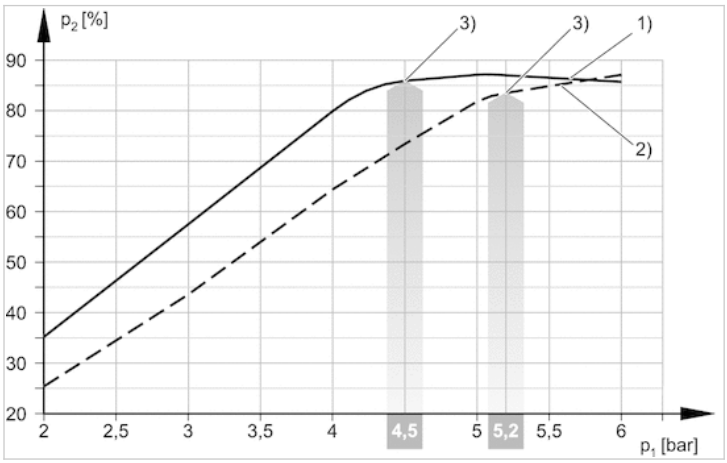
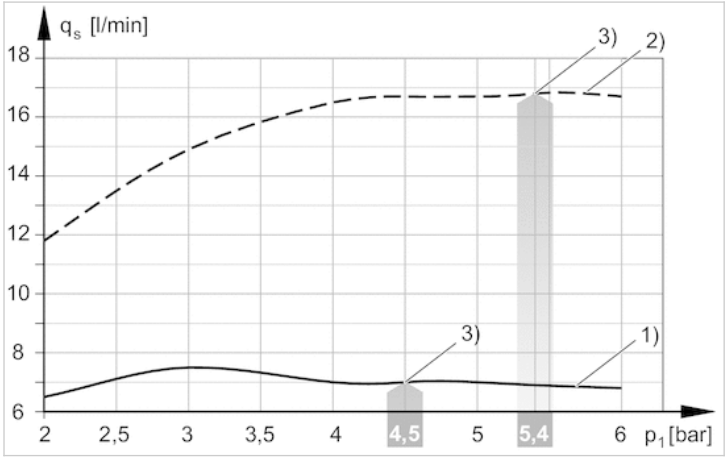


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm
3) optimum working pressure

Suction capacity qs depending on working pressure p1



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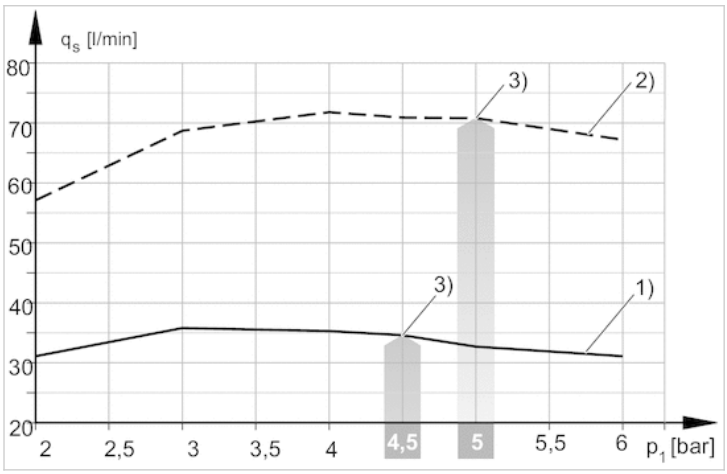

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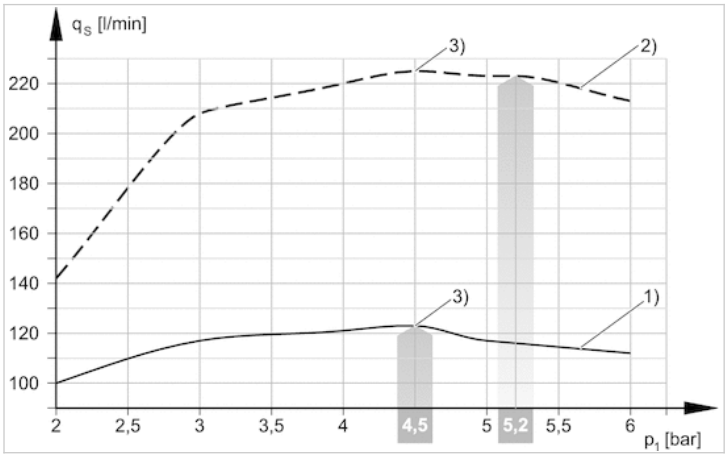

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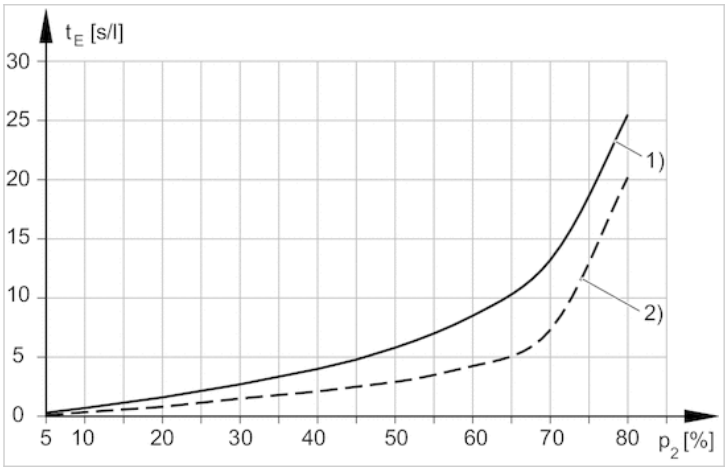
Evacuation time tE depending on vacuum p2 for 1 l volume (with optimal operating pressure



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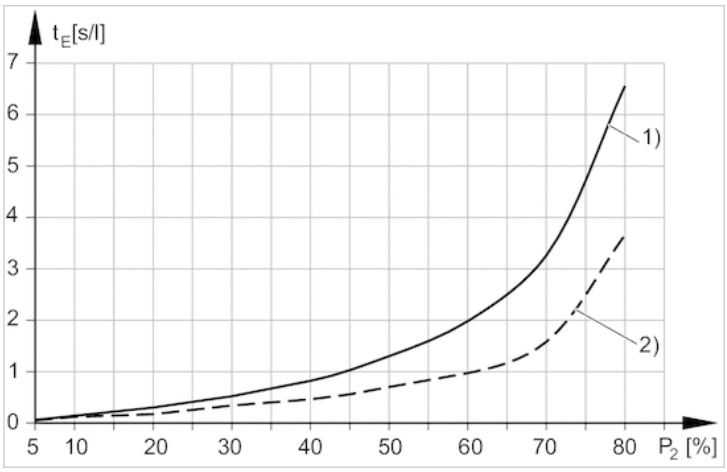

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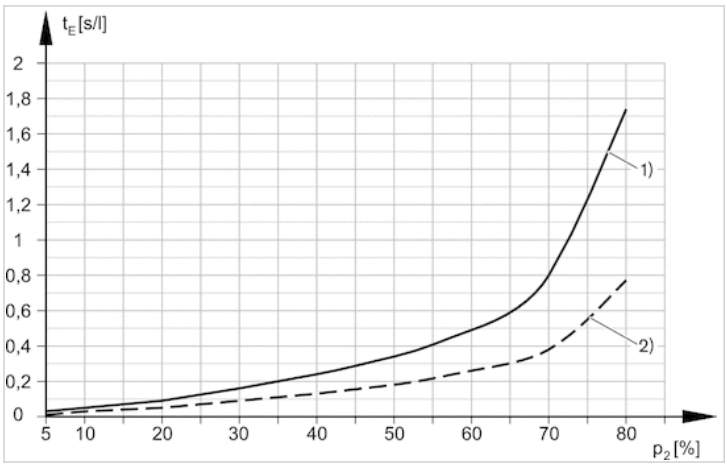
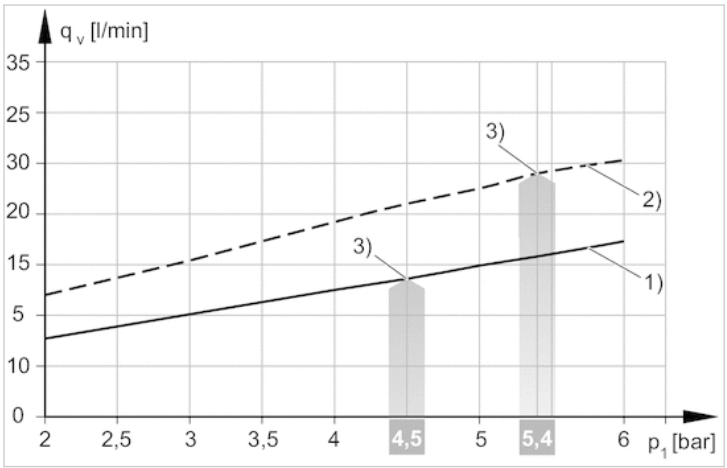


1) = Ø nozzle 2.0 mm 2) = Ø nozzle 2.5 mm

Air consumption qv depending on working pressure p1



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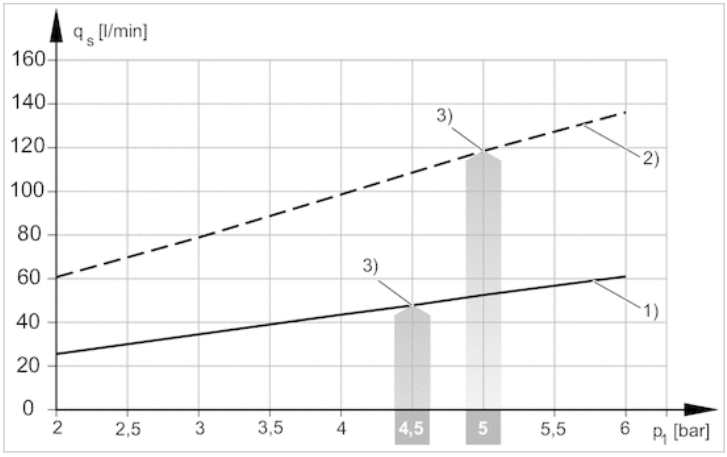

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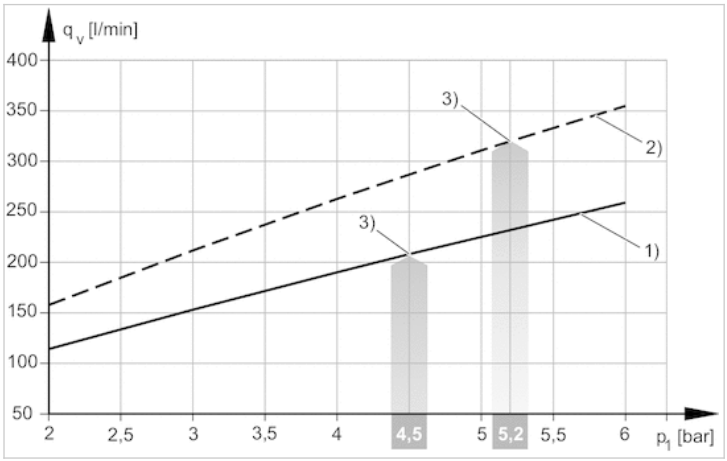

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