

# Ejector, Series EBS

- Thread connection
- electrical control, T-design
- 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/m <sup>3</sup>
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	0,034 kg

## Technical data

Part No.	Type	Nozzle Ø	Compressed air connection	Vacuum connection+
R412010174	EBS-ET-05-NC	0,5 mm	M5	M5
R412010175	EBS-ET-07-NC	0,7 mm	M5	M5

Part No.	Max. vacuum level at p.opt	Max. suction capacity	Air consumption at p.opt.
R412010174	84 %	7,5 l/min	14 l/min
R412010175	85 %	16,8 l/min	24 l/min

Part No.	Sound pressure level intake effect	Sound pressure level intake effect
R412010174	53 dB	58 dB
R412010175	59 dB	65 dB

Part No.	Protection against overpressure (max.)
R412010174	5 bar

Part No.	Protection against overpressure (max.)
R412010175	5 bar

## Technical information

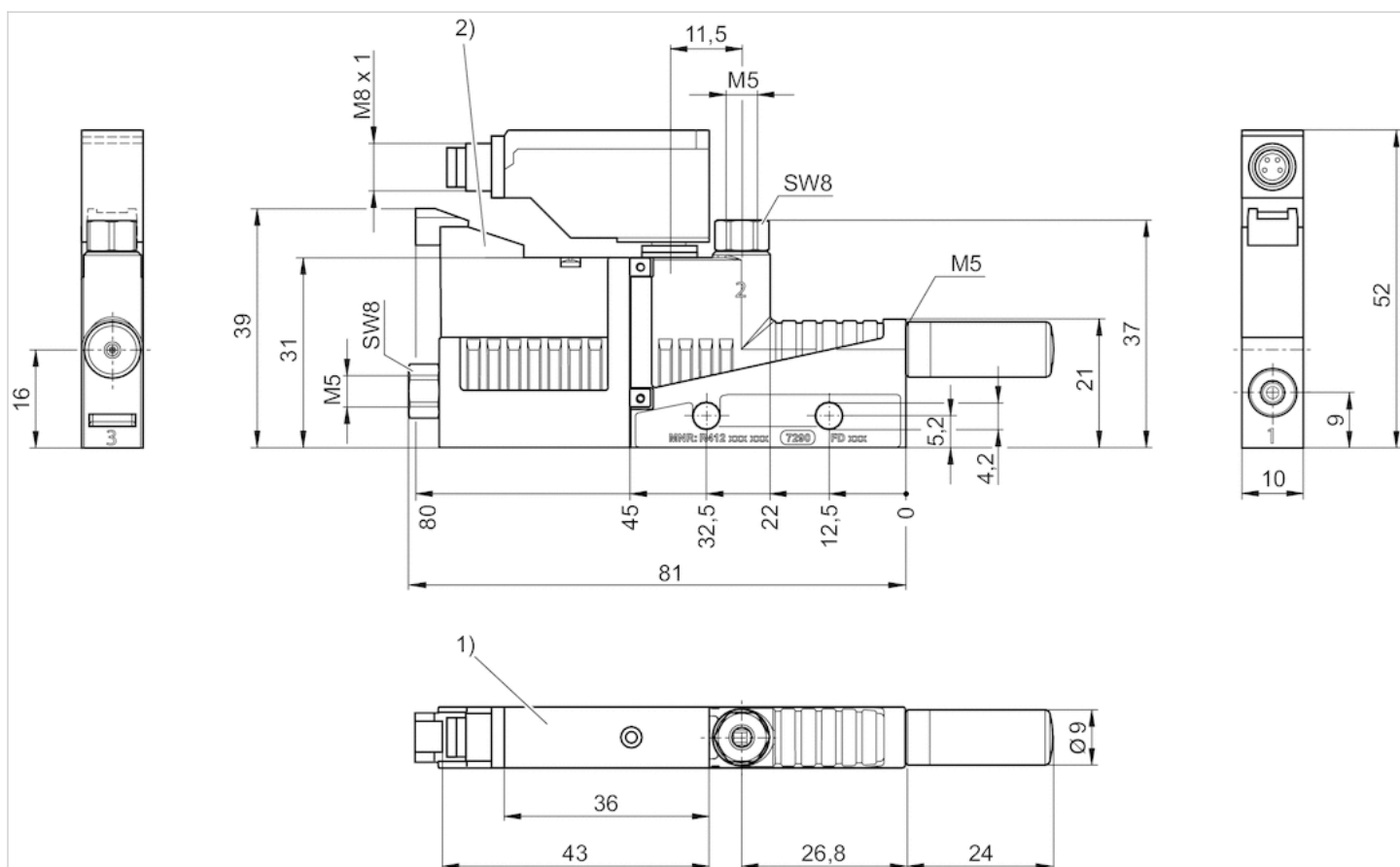
Note: All data refers to an ambient pressure of 1.013 bar and an ambient temperature of 20 °C .  
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

## Technical information

Material	
Housing	Polyamide, fiber-glass reinforced
Seal	Acrylonitrile butadiene rubber
Nozzle	Aluminum
Silencers	Polyethylene
Pressure sensor	Polycarbonate

## Dimensions

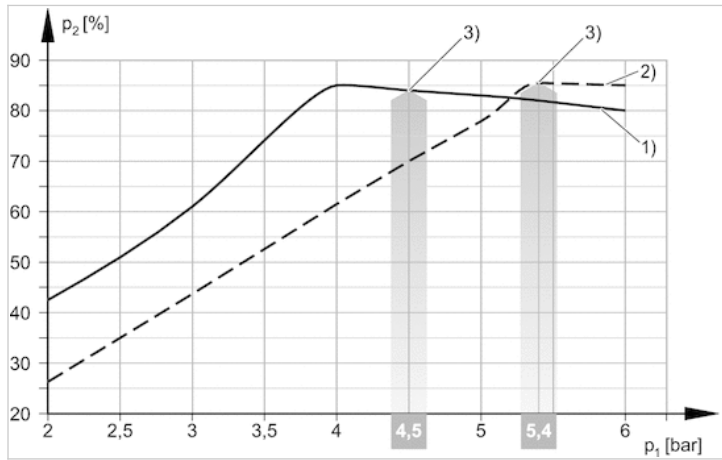
### Dimensions



- 1) vacuum switch is rotatable and exchangeable
- 2) Solenoid valve for vacuum ON/OFF

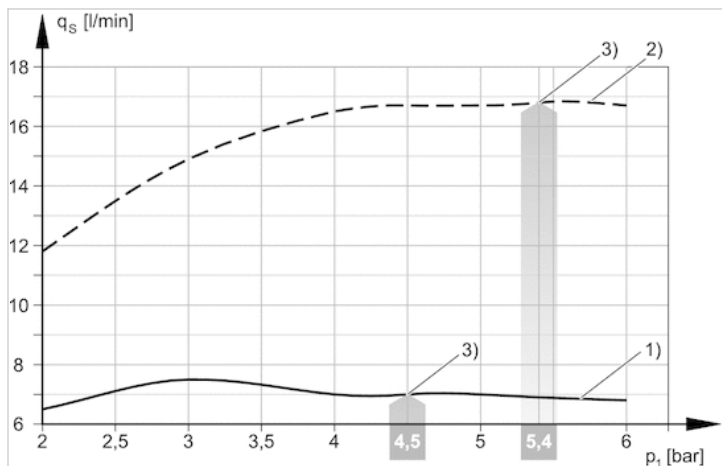
## Diagrams

### Vacuum p<sub>2</sub> depending on working pressure p<sub>1</sub>



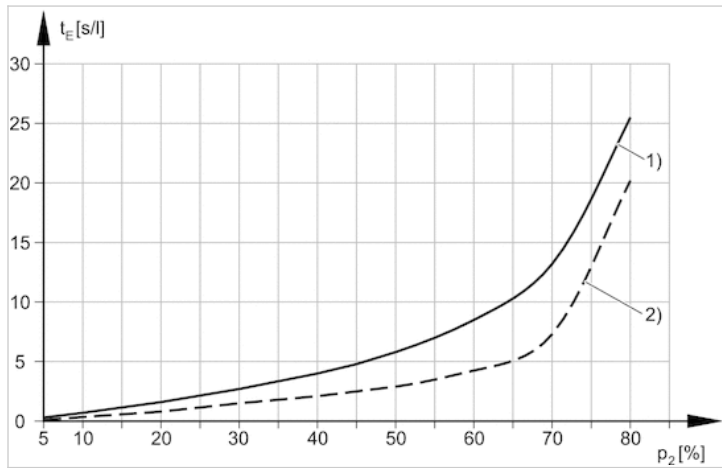
- 1) = Ø nozzle 0.5 mm
- 2) = Ø nozzle 0.7 mm
- 3) optimum working pressure

### Suction capacity q<sub>s</sub> depending on working pressure p<sub>1</sub>



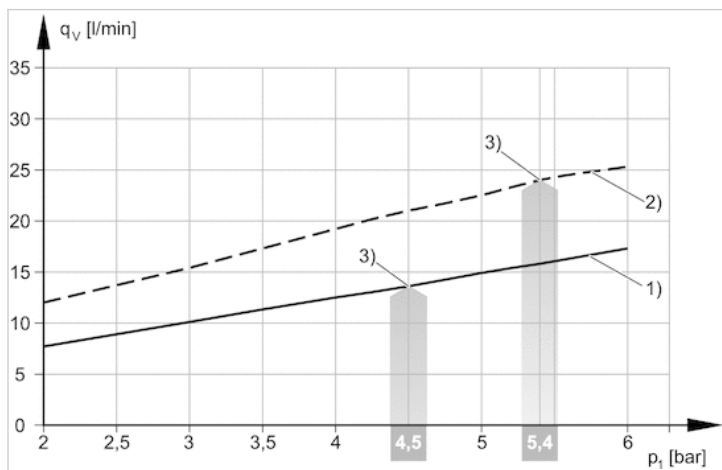
- 1) = Ø nozzle 0.5 mm
- 2) = Ø nozzle 0.7 mm
- 3) optimum working pressure

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



1) =  $\varnothing$  nozzle 0.5 mm 2) =  $\varnothing$  nozzle 0.7 mm

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