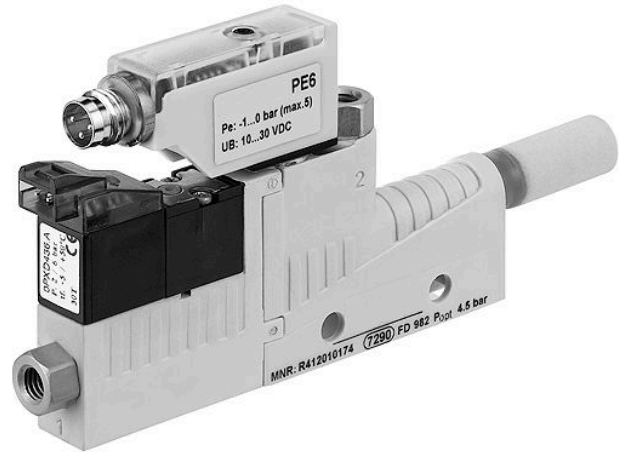## AVENTICS Series EBS Ejectors

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 | Thread connection |
| Type | Ejector |
| Version | electrical control, T-design |
| with silencer | with silencer |
| Nozzle Ø | 0.7 mm |
| vacuum switch | electronic adjustable |
| 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 | M5 |

| | |
|---|---|
| Vacuum connection+ | M5 |
| Max. suction capacity | 16.8 l/min |
| Air consumption at p.opt. | 24 l/min |
| Max. vacuum level at p.opt | 85 % |
| Sound pressure level intake effect | 59 dB |
| Sound pressure level intake effect | 65 dB |
| Protection against overpressure (max.) | 5 bar |
| Protection class | IP40 |
| Duty cycle according to DIN VDE 0580 standard | 100 % |
| Operational voltage DC | 24 V |
| Hysteresis | 2% of the final value, fixed |
| Precision (% of full scale value) | ± 3 % |
| Repeatability (% of full scale value) | ± 1 % |
| Voltage tolerance DC | - 5% / +10% |
| Power consumption solenoid valve | 1.3 W |
| Switching point | adjustable 0 ... 100% |
| Weight | 0.0335 kg |
| Housing material | Polyamide fiber-glass reinforced |
| Seal material | Acrylonitrile butadiene rubber |
| Nozzle material | Aluminum |
| Silencer material | Polyethylene |
| Material pressure sensor | Polycarbonate |
| Part No. | R412010175 |

## 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.
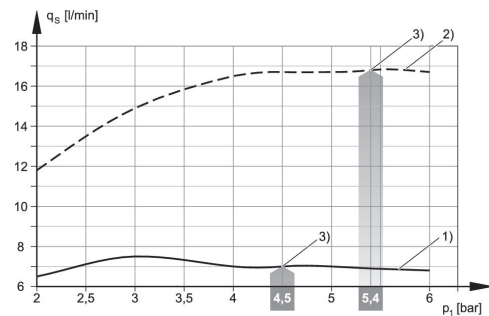
## Dimensions
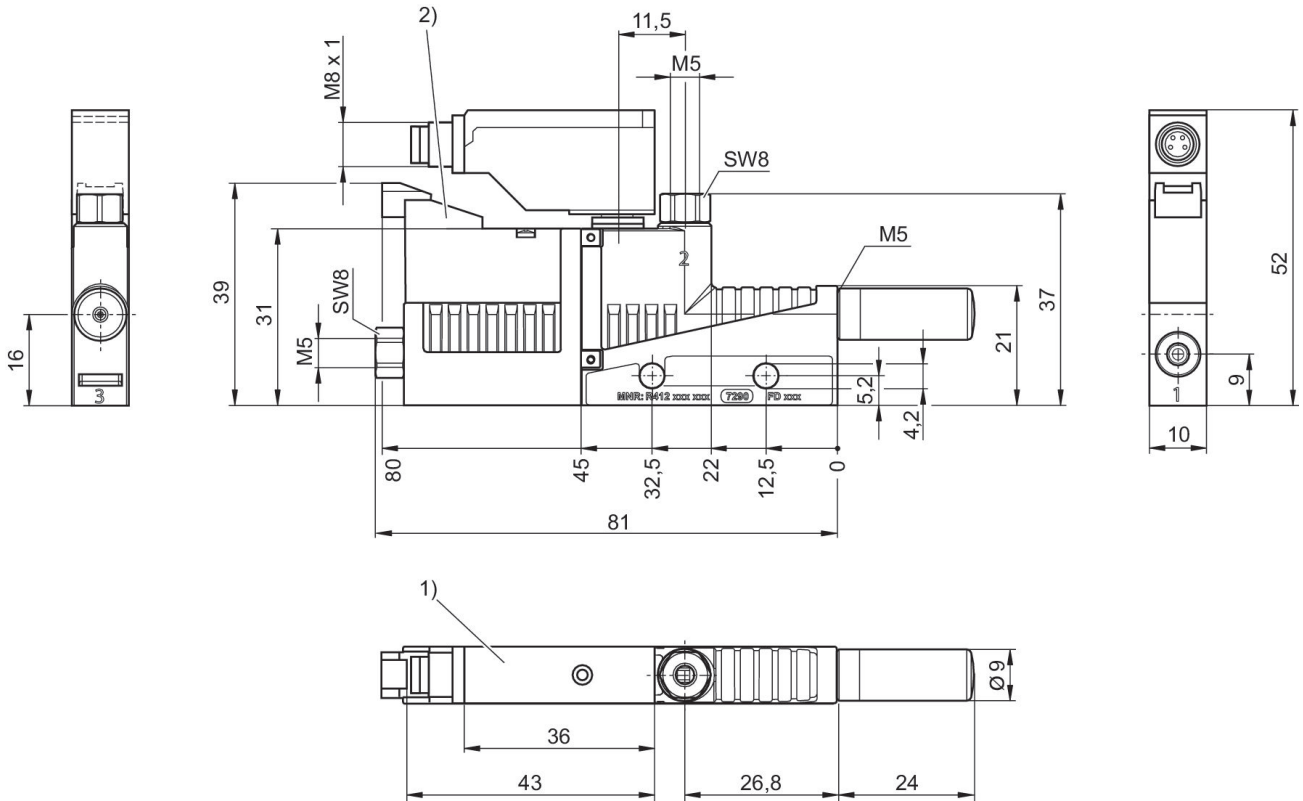


1) vacuum switch is rotatable and exchangeable
2) Solenoid valve for vacuum ON/OFF

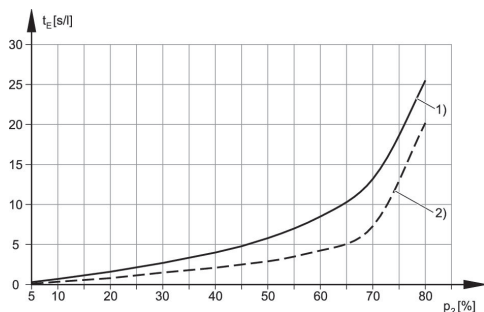## Vacuum p2 depending on working pressure p1
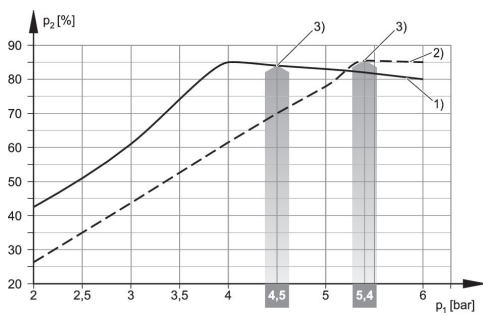


1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm
3) optimum working pressure
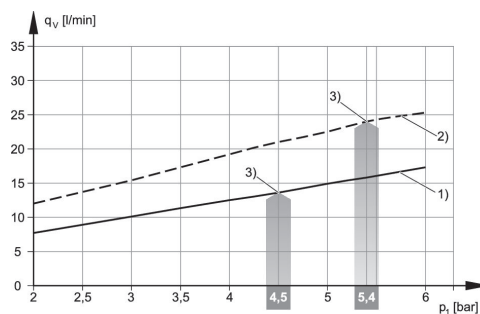
## Suction capacity qs depending on working pressure p1



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

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



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

## Air consumption qv depending on working pressure p1



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