

Gripper and vacuum technology →

**Ejector, Series EBS**

► push-in fitting ► electrical control, T-design ► with silencer ► vacuum switch: electronic, non-adjustable ► 1 x PNP



00125713

|  |                   |
|--|-------------------|
| Type   | Ejector           |
| Ambient temperature min./max.                    | +0 °C / +50 °C    |
| Working pressure min./max.                       | 3 bar / 6 bar     |
| Medium   | Compressed air    |
| Max. particle size                               | 5 µm              |
| Oil content of compressed air                    | 0 mg/m³ - 1 mg/m³ |
| Protection class:2001, with electrical connector | IP 40             |
| Display  | LED               |
| Hysteresis                                       | 0,02 bar          |
| Repeatability (% of full scale value)            | ± 1 %             |
| DC operating voltage                             | 24 V              |
| Voltage tolerance DC                             | -20% / +10%       |
| Switch output current Max.                       | 60 mA             |
| Status display                                   | LED               |
| Power consumption Solenoid valve                 | 1.3 W             |

|              |                                   |
|--------------|-----------------------------------|
| Materials:   |                                   |
| Housing      | Polyamide, fiber-glass reinforced |
| Seal         | Acrylonitrile Butadiene Rubber    |
| Nozzle       | Aluminum                          |
| Release ring | Polyamide                         |
| Silencers    | Polyethylene                      |

**Technical Remarks**

- Note: All data refers to an ambient pressure of 1013 mbar 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.

|  | Type         | Nozzle Ø | Compressed air connection | Vacuum connection | Max. vacuum level at p.opt | Max. suction capacity | Part No.   |
|--|--------------|----------|---------------------------|-------------------|----------------------------|-----------------------|------------|
|  |              |          |                           |                   | [%]                        | [l/min]               |            |
|  | EBS-ET-05-NC | 0.5      |                           |                   | 84                         | 7.5                   | R412007766 |
|  | EBS-ET-07-NC | 0.7      | Ø 4                       | Ø 4               | 85                         | 16.8                  | R412007767 |

| Part No.   | Air consumption at p.opt. | Sound pressure level intake effect | Sound pressure level intake effect | Protection against overpressure [max.] | Switching point | Weight |
|------------|---------------------------|------------------------------------|------------------------------------|--|-----------------|--------|
|            | [l/min]                   | [dBA]                              | [dBA]                              | [bar]                                  | [bar]           | [kg]   |
| R412007766 | 14                        | 53                                 | 58                                 | 5                                      | -0.6            | 0.103  |
| R412007767 | 24                        | 59                                 | 65                                 |  |                 |        |

NC = ejector line closed without current  
 Switching point: non-adjustable vacuum switch  
 Output signal: 1 x PNP, NO (normally open contact)

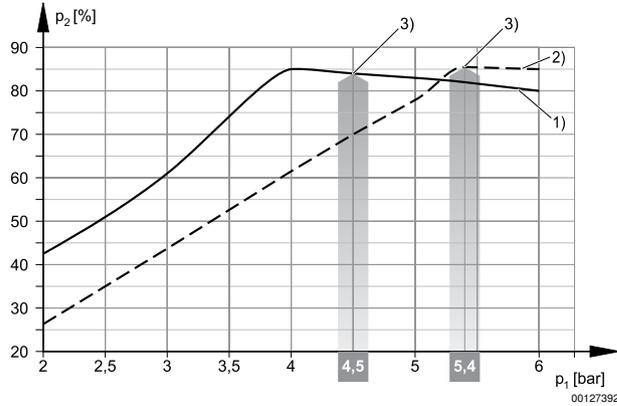
Supplementary products

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2013-03-19, © Bosch Rexroth AG, subject to change

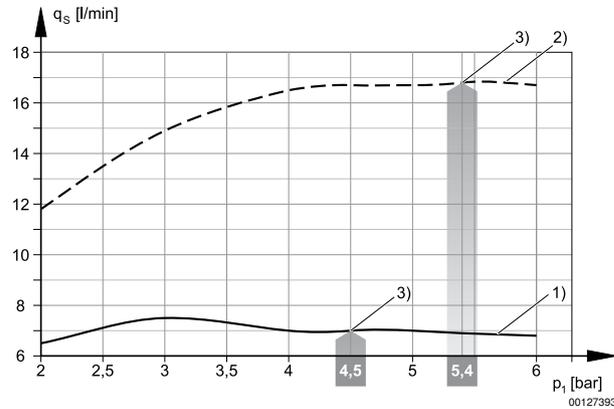
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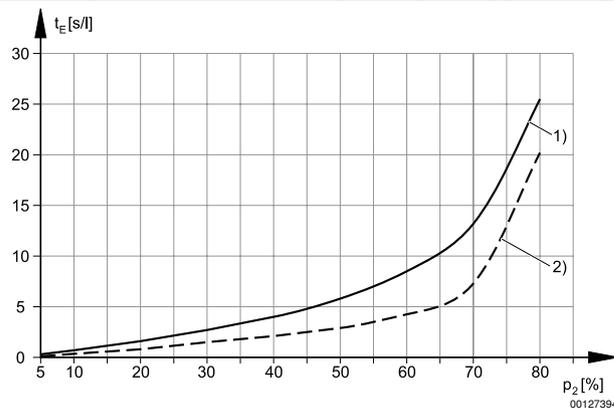
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**Vacuum  $p_2$  depending on working pressure  $p_1$** 

1) =  $\varnothing$  nozzle 0.5 mm 2) =  $\varnothing$  nozzle 0.7 mm  
3) Working pressure p.opt.

**Suction capacity  $q_s$  depending on working pressure  $p_1$** 

1) =  $\varnothing$  nozzle 0.5 mm 2) =  $\varnothing$  nozzle 0.7 mm  
3) Working pressure p.opt.

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

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

## Supplementary products

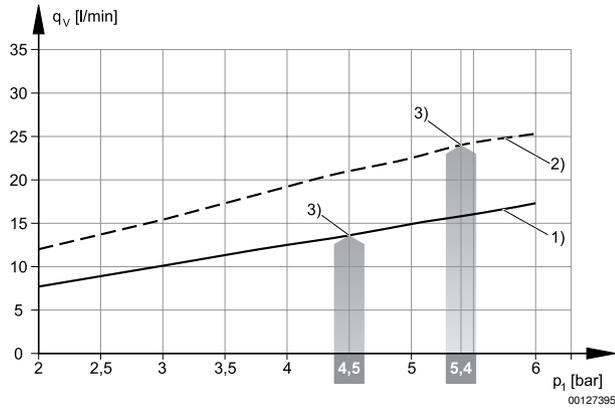
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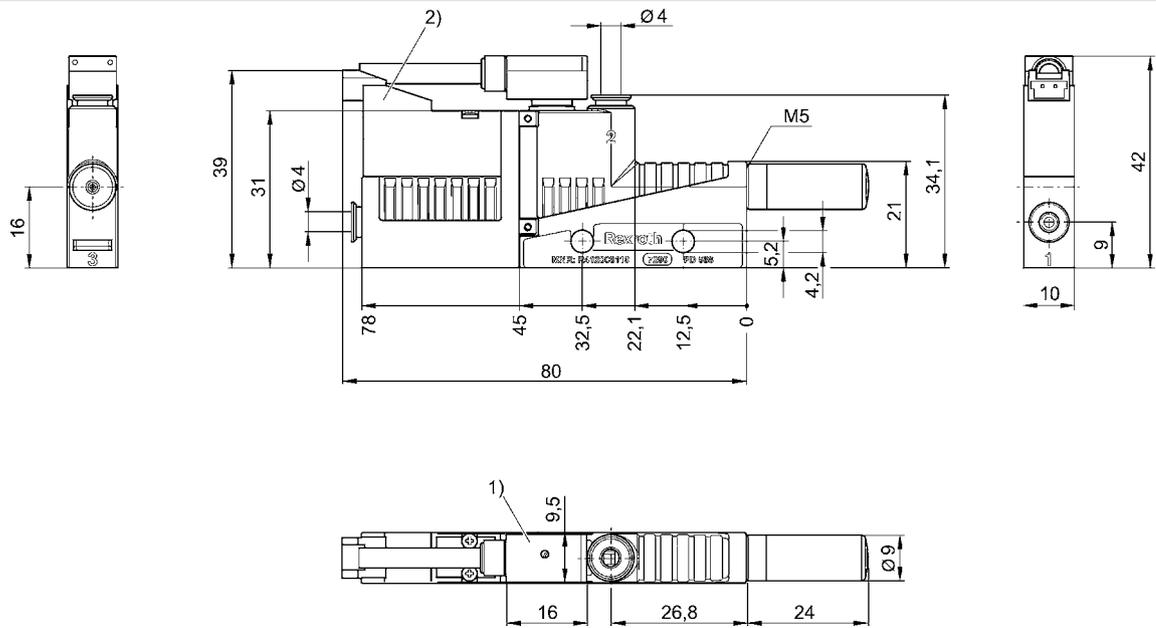
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**Air consumption q<sub>v</sub> depending on working pressure p<sub>1</sub>**



1) = Ø nozzle 0.5 mm 2) = Ø nozzle 0.7 mm  
 3) Working pressure p<sub>opt</sub>.

**Dimensions**



1) Vacuum switch is rotatable, not exchangeable  
 Cable length, 3 m, 3-wire, shielded  
 2) Solenoid valve for vacuum ON/OFF

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