**Gripper and vacuum technology →**

# Multistage ejector, Series EMP

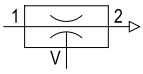
**► with silencer**

00112447

| | |
|---|---|
| Ambient temperature min./max. | +0°C / +50°C |
| Medium 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 |
| Max. vacuum level at p.opt | 82 % |
| Materials: | |
| Housing | Aluminum, anodized |
| Seal | Acrylonitrile Butadiene Rubber |
| Nozzle | Aluminum |
| Silencers | Polyurethane |

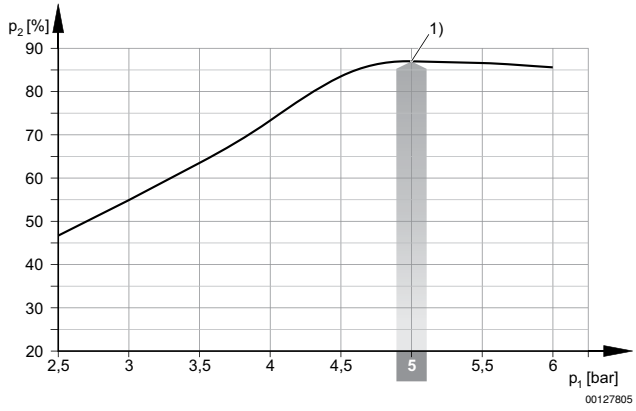
**Technical Remarks**

- 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.
- The oil content of air pressure must remain constant during the life cycle.

| | Type | Max. suction capacity | Air consumption at p.opt. | Sound pressure level intake effect | Sound pressure level intake effect | | Note | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | [l/min] | [l/min] | [dBA] | [dBA] | [kg] | | |
|  | EMP-PT-25-NN | 420 | 101 | 64 | 77 | 1.1 | 1) | **0821305203** |
| | EMP-PT-25-NN | 350 | 101 | 62 | 75 | 1.1 | 2) | 0821305204 |
| | EMP-PT-50-NN | 750 | 197 | 66 | 80 | 1.4 | 1) | 0821305205 |
| | EMP-PT-50-NN | 720 | 197 | 64 | 78 | 1.3 | 2) | 0821305206 |
| | EMP-PT-100-NN | 1060 | 376 | 60 | 81 | 1.7 | 1) | 0821305207 |
| | EMP-PT-100-NN | 909 | 376 | 65 | 80 | 1.6 | 2) | 0821305208 |

1) axial silencer
2) radial silencer

**Vacuum p2 depending on working pressure p1**




1) optimum working pressure

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 2012-10-25, © Bosch Rexroth AG, subject to change

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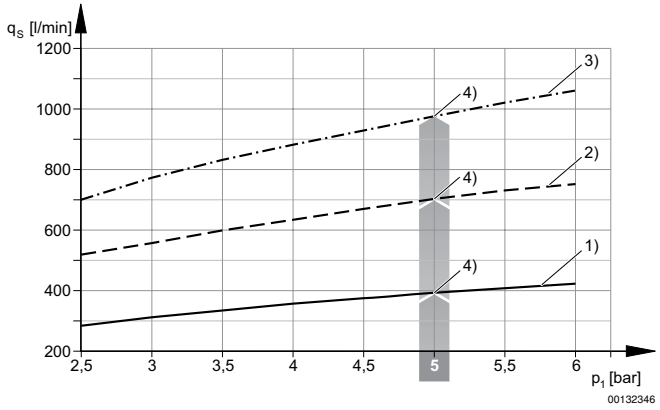
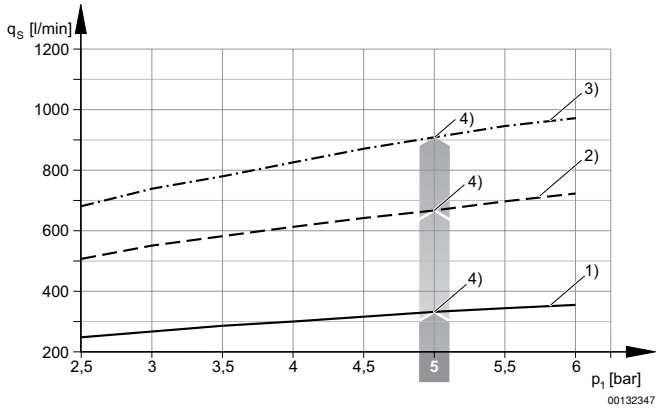
## Suction capacity qs depending on working pressure p1




1) EMP-PT-25, axial silencer
2) EMP-PT-50, axial silencer
3) EMP-PT-100, axial silencer
4) optimum working pressure




1) EMP-PT-25, radial silencer
2) EMP-PT-50, radial silencer
3) EMP-PT-100, radial silencer
4) optimum working pressure

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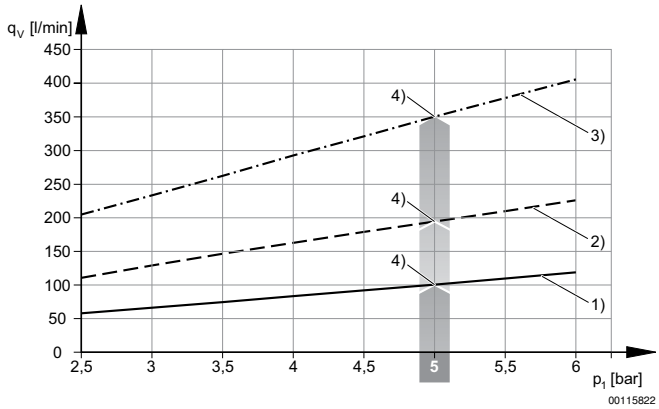
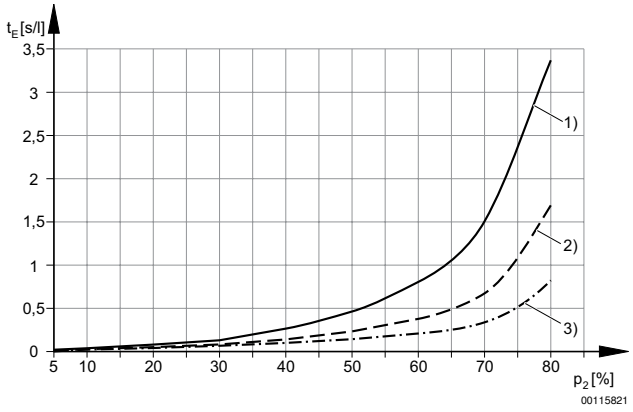
## Air consumption qv depending on working pressure p1




1) EMP-PT-25
2) EMP-PT-50
3) EMP-PT-100
4) optimum working pressure

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




1) EMP-PT-25
2) EMP-PT-50
3) EMP-PT-100

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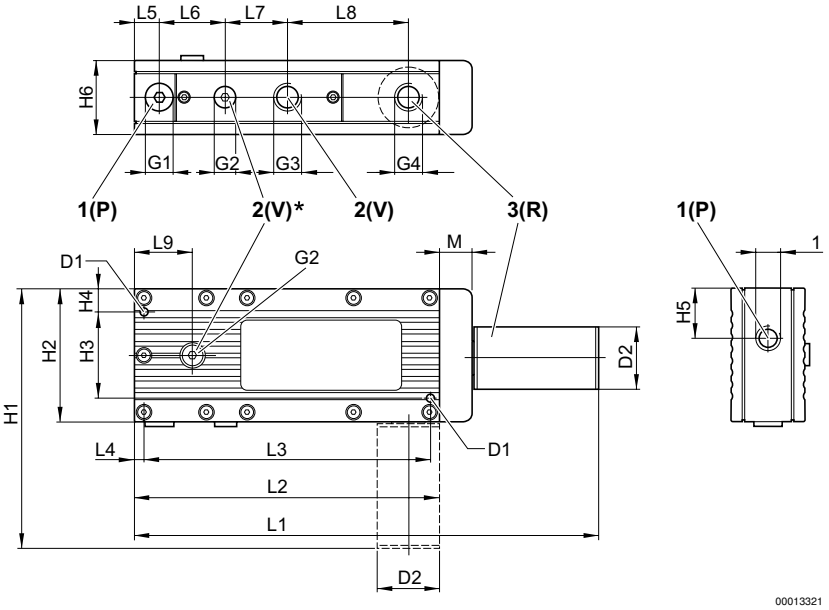
## Dimensions




| Part No. | D1 | D2 | G1 | G2 | G3 | G4 | H1 | H2 | H3 | H4 | H5 | H6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0821305203 | 5.5 | 40 | G1/4 | G1/8 | G1/2 | G1/2 | – | 85 | 55 | 15 | 32 | 46 |
| 0821305204 | 5.5 | 40 | G1/4 | G1/8 | G1/2 | G1/2 | 165 | 85 | 55 | 15 | 32 | 46 |
| 0821305205 | 5.5 | 50 | G1/4 | G1/8 | G3/4 | G3/4 | – | 85 | 55 | 15 | 35 | 56 |
| 0821305206 | 5.5 | 50 | G1/4 | G1/8 | G3/4 | G3/4 | 205 | 85 | 55 | 15 | 35 | 56 |
| 0821305207 | 5.5 | 50 | G1/4 | G1/8 | G1 | G3/4 | – | 85 | 55 | 15 | 35 | 66 |
| 0821305208 | 5.5 | 50 | G1/4 | G1/8 | G1 | G3/4 | 205 | 85 | 55 | 15 | 35 | 66 |

| Part No. | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | M | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0821305203 | 275 | 195 | 183 | 6 | 16 | 42 | 40 | 71.5 | 37 | — | | |
| 0821305204 | – | 195 | 183 | 6 | 16 | 42 | 40 | 71.5 | 37 | — | | |
| 0821305205 | 335 | 195 | 183 | 6 | 16 | 42 | 40 | 71.5 | 37 | 20 | | |
| 0821305206 | – | 195 | 183 | 6 | 16 | 42 | 40 | 71.5 | 37 | — | | |
| 0821305207 | 335 | 195 | 183 | 6 | 16 | 38 | 40 | 71.5 | 37 | 20 | | |
| 0821305208 | – | 195 | 183 | 6 | 16 | 38 | 40 | 71.5 | 37 | — | | |