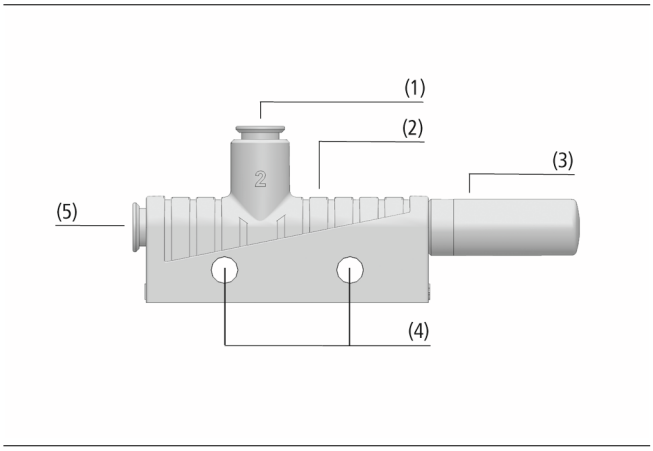
# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

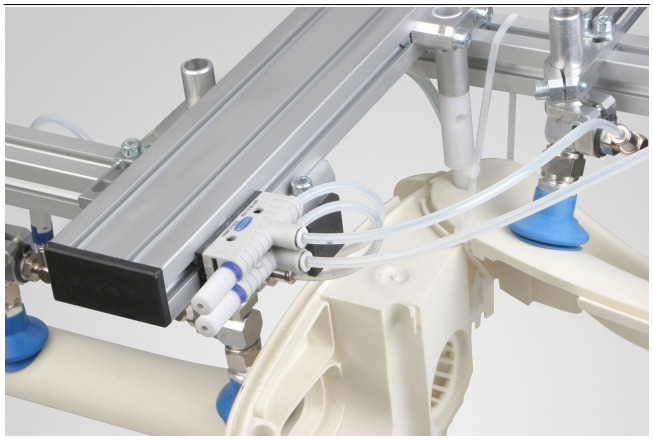
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Basic Ejectors SBP




System design Basic Ejectors SBP



Decentral vacuum generation with basic ejectors SBP when handling plastic injection molded parts

## Suitability for industry specific applications

### Application

- Basic ejector with main body made of plastic for use in handling systems
- Handling of electronic components
- Use in separation systems for plastic and sheet-metal machining
- Construction of ejector blocks for decentralized individual control of suction cups

### Design

- One piece housing (2) made of light, impact resistant plastic
- Connection of compressed air (5) and vacuum (1) with quick action push-in coupling (S01 to S03) or threaded holes (G01 to G03)
- Open silencer (3)
- Vacuum generator with single-stage nozzle, available in six power ratings, 0.5 to 2.5 mm
- Can be fixed horizontally with mounting holes (4) or vertically with the base on a mounting plate
- Optional mounting with mounting plate and mounting kit on DIN top-hat rails

### Product highlights

- Compact, lightweight plastic housing optimized for decentralized vacuum supply in highly dynamic processes
- Fine power gradation (six levels) for minimum air consumption
- Compact and easy to install, since connections either with thread or plug-in connection
- Open, maintenance-friendly silencer

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# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

## Designation code Basic Ejectors SBP

| SBP | – | 05 | – | G01 | – | SDA |
|---|---|---|---|---|---|---|
| 1 | | 2 | | 3 | | 4 |

**1 – Abbreviated designation**

| Code | Version |
|---|---|
| SBP | SBP |

**2 – Nozzle size**

| Code | Diameter in mm |
|---|---|
| 05...25 | ø 0.5 to 2.5 |

**3 – Connection**

| Code | Connection |
|---|---|
| G01 | Connection thread 1 |
| G02 | Connection thread 2 |
| G03 | Connection thread 3 |
| S01 | Quick connect push-in coupling 1 |
| S02 | Quick connect push-in coupling 2 |
| S03 | Quick connect push-in coupling 3 |

**4 – Variant**

| Code | Type |
|---|---|
| SDA | Silencer axial |

The basic ejector SBP is delivered as a ready-to-connect product.

Available spare parts: silencer

Available accessories: mounting plate, mounting set

## Ordering data Basic Ejectors SBP

| Type* | | G01 | G02 | G03 | S01 | S02 | S03 |
|---|---|---|---|---|---|---|---|
| SBP | 05 | 10.02.01.00599 | - | - | 10.02.01.00563 | - | - |
| SBP | 07 | 10.02.01.00600 | - | - | 10.02.01.00564 | - | - |
| SBP | 10 | - | 10.02.01.00601 | - | - | 10.02.01.00565 | - |
| SBP | 15 | - | 10.02.01.00602 | - | - | 10.02.01.00566 | - |
| SBP | 20 | - | - | 10.02.01.00603 | - | - | 10.02.01.00567 |
| SBP | 25 | - | - | 10.02.01.00604 | - | - | 10.02.01.00568 |

*Connection geometry: see design data of basic ejectors SBP

## Ordering data Spare parts Basic Ejectors SBP

| Type | | Spare parts | | Part no. |
|---|---|---|---|---|
| SBP | 05 | Silencer (round) | SD M5-AG 9x24 | 10.02.01.00539 |
| SBP | 07 | Silencer (round) | SD M5-AG 9x24 | 10.02.01.00539 |
| SBP | 10 | Silencer (round) | SD G1/8-AG 14x40 | 10.02.01.00540 |
| SBP | 15 | Silencer (round) | SD G1/8-AG 14x40 | 10.02.01.00540 |
| SBP | 20 | Silencer (round) | SD G3/8-AG 20x76 SBP | 10.02.01.00719 |
| SBP | 25 | Silencer (round) | SD G3/8-AG 20x76 SBP | 10.02.01.00719 |

## Ordering data Accessories Basic Ejectors SBP

| Type | Artikelnummer Mounting plate | Artikelnummer Mounting set |
|---|---|---|
| SBP | 10.02.01.00511 | 10.02.01.00769 |



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# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

## Technical data Basic Ejectors SBP

| Type | | Nozzle diameter [mm] | Degree of evacuation [%] | Suction rate (max.) [l/min] | Suction rate (max.) [m³/h] | Air consumption suction [l/min]* | Air consumption suction [m³/h]** | Sound pressure level suction [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| SBP | 05 | 0.5 | 85 | 8.0 | 0.5 | 14 | 0.8 | 53 |
| SBP | 07 | 0.7 | 85 | 16.0 | 1.0 | 22 | 1.3 | 59 |
| SBP | 10 | 1.0 | 85 | 37.7 | 2.3 | 48 | 2.9 | 59 |
| SBP | 15 | 1.5 | 85 | 71.0 | 4.3 | 105 | 6.3 | 65 |
| SBP | 20 | 2.0 | 85 | 127.0 | 7.6 | 197 | 11.8 | 68 |
| SBP | 25 | 2.5 | 85 | 215.0 | 12.9 | 311 | 18.7 | 70 |

*At optimal operating pressure
**At optimal operating pressure

| Type | | Sound pressure level free [dB(A)] | Pressure range (operating pressure) [bar] | Recommended hose internal diameter compressed air [mm]* | Recommended hose internal diameter vacuum [mm]** | Weight [g] | Operating temperature [°C] |
|---|---|---|---|---|---|---|---|
| SBP | 05 | 58 | 3.0 ... 6.0 bar | 2 | 2 | 7.5 | 0 ... 60 °C |
| SBP | 07 | 65 | 3.0 ... 6.0 bar | 2 | 2 | 7.5 | 0 ... 60 °C |
| SBP | 10 | 65 | 3.0 ... 6.0 bar | 4 | 6 | 22.0 | 0 ... 60 °C |
| SBP | 15 | 72 | 3.0 ... 6.0 bar | 4 | 6 | 22.0 | 0 ... 60 °C |
| SBP | 20 | 77 | 3.0 ... 6.0 bar | 6 | 7 | 50.0 | 0 ... 60 °C |
| SBP | 25 | 78 | 3.0 ... 6.0 bar | 6 | 7 | 50.0 | 0 ... 60 °C |

*For max. length 2 m
**For max. length 2 m

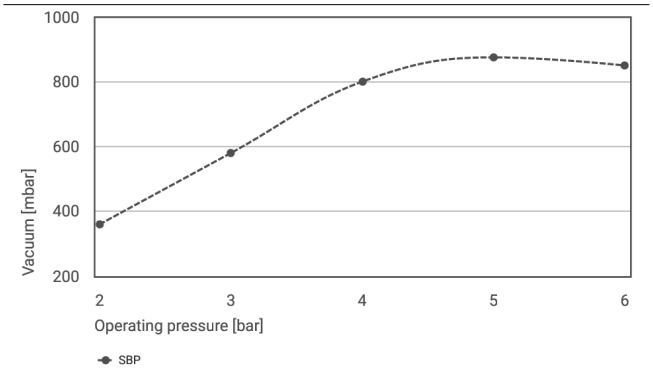


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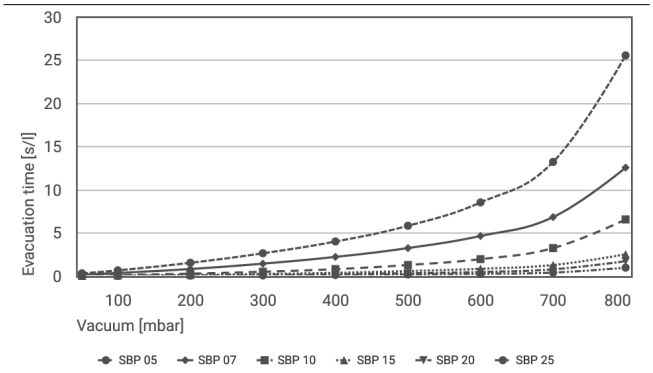
# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

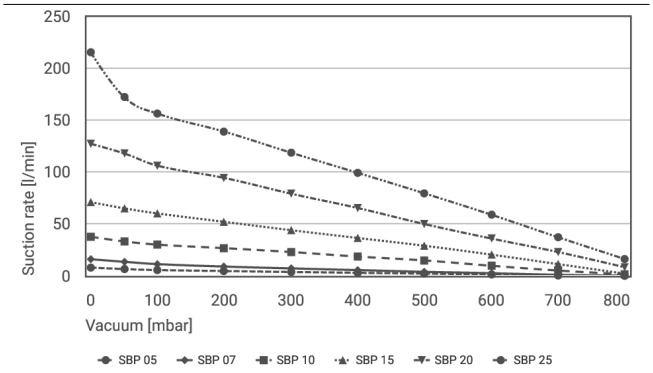
## Performance data Basic Ejectors SBP




Achievable vacuum at various operating pressures




Evacuation time for various vacuum ranges [s/l]




Suction rate at various degrees of evacuation [l/min]

## Achievable vacuum at various operating pressures

| | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| SBP | 360.00 | 580.00 | 800.00 | 875.00 | 850.00 |



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# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

## Evacuation time for various vacuum ranges [s/l]

| | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|---|---|---|---|---|---|---|---|---|---|
| SBP 05 | 0.34 | 0.68 | 1.56 | 2.66 | 4.02 | 5.84 | 8.54 | 13.22 | 25.54 |
| SBP 07 | 0.20 | 0.38 | 0.84 | 1.46 | 2.24 | 3.26 | 4.66 | 6.84 | 12.56 |
| SBP 10 | 0.06 | 0.14 | 0.30 | 0.52 | 0.82 | 1.30 | 1.98 | 3.26 | 6.56 |
| SBP 15 | 0.05 | 0.08 | 0.16 | 0.26 | 0.40 | 0.60 | 0.86 | 1.30 | 2.54 |
| SBP 20 | 0.03 | 0.05 | 0.09 | 0.16 | 0.24 | 0.34 | 0.49 | 0.80 | 1.74 |
| SBP 25 | 0.03 | 0.04 | 0.07 | 0.09 | 0.14 | 0.20 | 0.28 | 0.42 | 0.99 |

## Suction rate at various degrees of evacuation [l/min]

| | 0 | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|
| SBP 05 | 8.00 | 6.62 | 5.64 | 4.74 | 3.81 | 3.01 | 2.28 | 1.42 | 0.40 | 0.10 |
| SBP 07 | 16.10 | 13.60 | 11.37 | 9.03 | 7.25 | 5.63 | 3.97 | 2.65 | 1.10 | 0.30 |
| SBP 10 | 37.70 | 33.20 | 30.10 | 26.70 | 23.00 | 18.60 | 14.90 | 9.80 | 5.20 | 1.61 |
| SBP 15 | 71.00 | 65.00 | 60.10 | 52.00 | 44.00 | 36.50 | 29.00 | 20.50 | 11.40 | 2.18 |
| SBP 20 | 127.00 | 117.80 | 106.00 | 94.20 | 79.10 | 65.30 | 49.87 | 35.99 | 23.00 | 8.36 |
| SBP 25 | 215.00 | 172.00 | 156.10 | 138.70 | 118.50 | 99.10 | 79.36 | 58.90 | 37.24 | 16.24 |

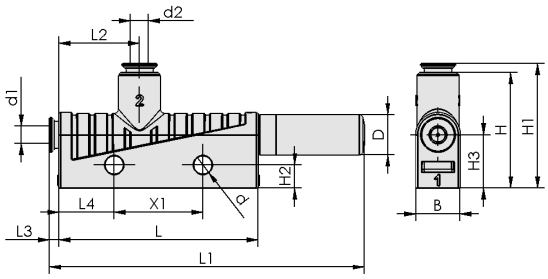


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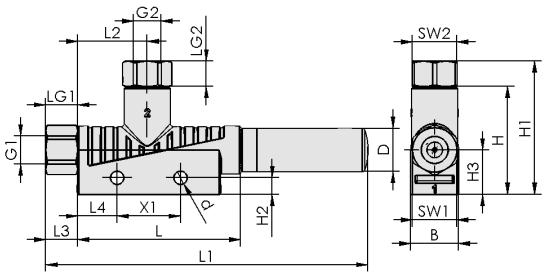
# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

## Design data Basic Ejectors SBP




SBP S01 - S03




SBP G01 - G03



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# Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

## Design data Basic Ejectors SBP

| Type | | | B [mm] | d [mm] | d1 [mm] | d2 [mm] | D [mm] | G1 | G2 | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SBP | 05 | G01 | 10 | 4.2 | - | - | 9 | M5-F | M5-F | 26 | 31.0 | 5.2 | 12 |
| SBP | 07 | G01 | 10 | 4.2 | - | - | 9 | M5-F | M5-F | 26 | 31.0 | 5.2 | 12 |
| SBP | 10 | G02 | 15 | 4.2 | - | - | 14 | G1/8"-F | G1/8"-F | 34 | 42.0 | 5.2 | 14 |
| SBP | 15 | G02 | 15 | 4.2 | - | - | 14 | G1/8"-F | G1/8"-F | 34 | 42.0 | 5.2 | 14 |
| SBP | 20 | G03 | 20 | 4.2 | - | - | 20 | G1/4"-F | G3/8"-F | 39 | 53.5 | 5.2 | 17 |
| SBP | 25 | G03 | 20 | 4.2 | - | - | 20 | G1/4"-F | G3/8"-F | 39 | 53.5 | 5.2 | 17 |
| SBP | 05 | S01 | 10 | 4.2 | 4 | 4 | 9 | - | - | 26 | 28.0 | 5.2 | 12 |
| SBP | 07 | S01 | 10 | 4.2 | 4 | 4 | 9 | - | - | 26 | 28.0 | 5.2 | 12 |
| SBP | 10 | S02 | 15 | 4.2 | 6 | 8 | 14 | - | - | 34 | 40.0 | 5.2 | 14 |
| SBP | 15 | S02 | 15 | 4.2 | 6 | 8 | 14 | - | - | 34 | 40.0 | 5.2 | 14 |
| SBP | 20 | S03 | 20 | 4.2 | 8 | 10 | 20 | - | - | 39 | 45.5 | 5.2 | 17 |
| SBP | 25 | S03 | 20 | 4.2 | 8 | 10 | 20 | - | - | 39 | 45.5 | 5.2 | 17 |

| Type | | | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | LG1 [mm] | LG2 [mm] | SW1 [mm] | SW2 [mm] | X1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SBP | 05 | G01 | 45.0 | 74 | 18.0 | 5.0 | 12.5 | 5 | 5 | 8 | 8 | 20 |
| SBP | 07 | G01 | 45.0 | 74 | 18.0 | 5.0 | 12.5 | 5 | 5 | 8 | 8 | 20 |
| SBP | 10 | G02 | 51.5 | 102 | 22.0 | 10.0 | 12.5 | 8 | 8 | 14 | 14 | 20 |
| SBP | 15 | G02 | 51.5 | 102 | 22.0 | 10.0 | 12.5 | 8 | 8 | 14 | 14 | 20 |
| SBP | 20 | G03 | 86.5 | 176 | 24.5 | 13.0 | 12.5 | 9 | 10 | 17 | 19 | 20 |
| SBP | 25 | G03 | 86.5 | 176 | 24.5 | 13.0 | 12.5 | 9 | 10 | 17 | 19 | 20 |
| SBP | 05 | S01 | 45.0 | 71 | 18.0 | 2.0 | 12.5 | - | - | - | - | 20 |
| SBP | 07 | S01 | 45.0 | 71 | 18.0 | 2.0 | 12.5 | - | - | - | - | 20 |
| SBP | 10 | S02 | 51.5 | 97 | 22.0 | 5.5 | 12.5 | - | - | - | - | 20 |
| SBP | 15 | S02 | 51.5 | 97 | 22.0 | 5.5 | 12.5 | - | - | - | - | 20 |
| SBP | 20 | S03 | 86.5 | 168 | 24.5 | 5.5 | 12.5 | - | - | - | - | 20 |
| SBP | 25 | S03 | 86.5 | 168 | 24.5 | 5.5 | 12.5 | - | - | - | - | 20 |



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