

Art.-Nr.: 10.02.01.01602



## Technical data

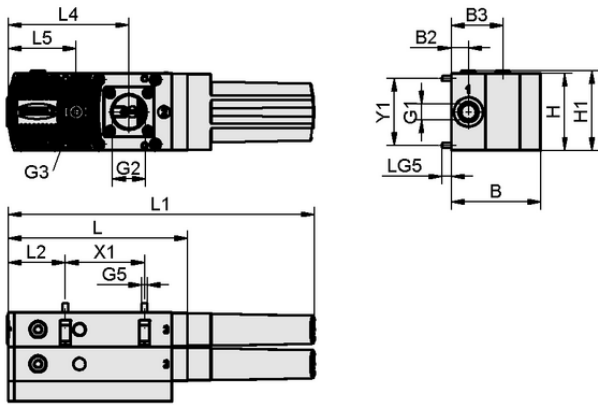
| Attribute               | Value       |
|-------------------------|-------------|
| Weight                  | 1.100 kg    |
| Air consumption suction | 395.0 l/min |
| Suction rate (max.)     | 870.0 l/min |
| Size                    | 100.00      |
| Shape                   | High vacuum |
| Type                    | NPT         |

SBPL 100 HV NPT

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

Available accessories: retrofit kit, sealing plugs, vacuum manometer, quick exhaust valves, exhaust kit, retrofit kit, solenoid valves, vacuum cup filter, mounting brackets, vacuum hose, hose nozzle



**Design data**

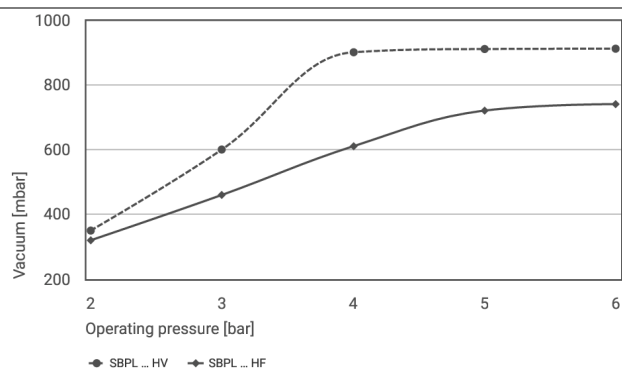
| Attribute         | Value     |
|-------------------|-----------|
| Length L1         | 285.30 mm |
| Length L2         | 54.00 mm  |
| Length L          | 167.50 mm |
| Width B2          | 16.00 mm  |
| Width B           | 83.00 mm  |
| Height H1         | 74.00 mm  |
| Height H          | 72.00 mm  |
| Thread G1         | NPT3/8"-F |
| Thread G2         | NPT1-F    |
| Length L4         | 113.00 mm |
| Width B3          | 48.00 mm  |
| Hole spacing Y1   | 62.0 mm   |
| Hole spacing X1   | 73.5 mm   |
| Thread length LG5 | 8.5 mm    |
| Length L5         | 64.00 mm  |
| Thread G3         | NPT1/4"-F |
| Thread G5         | M5-M      |

Design data SBPL 100 HV NPT

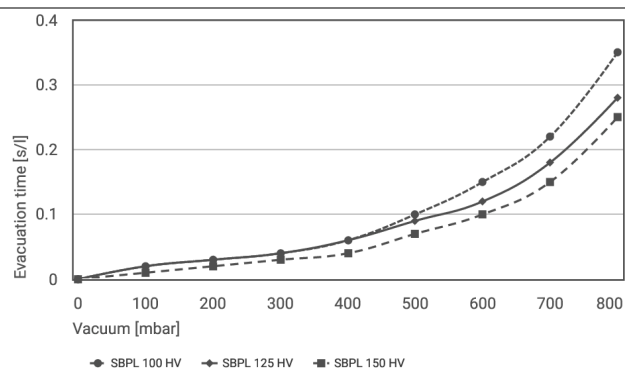
**Technical data**

| Attribute                                         | Value           |
|---------------------------------------------------|-----------------|
| Recommended hose internal diameter compressed air | 9.0 mm          |
| Recommended hose internal diameter vacuum         | 32.0 mm         |
| Degree of evacuation                              | 90.0 %          |
| Max. vacuum                                       | 26.577 inHg     |
| Sound pressure level suction                      | 64.0 dB(A)      |
| Sound pressure level free                         | 70.0 dB(A)      |
| Weight                                            | 1.100 kg        |
| Air consumption suction                           | 24.500 m³/h     |
| Size                                              | 100.00          |
| Pressure range (operating pressure) [bar]         | 2.0 ... 6.0 bar |
| Operating temperature                             | 0 ... 60 °C     |
| Suction rate (real)                               | 52.200 m³/h     |
| Suction rate (theoretical)                        | 79.200 m³/h     |
| Pressure range (operating pressure) [psi]         | 29.0 ... 87.0   |
| Product family                                    | SBPL            |

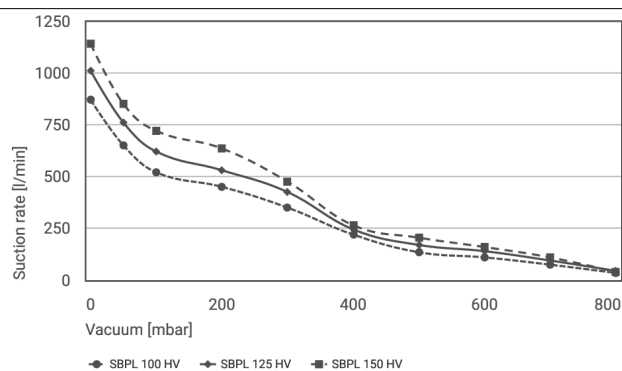
Art.-Nr.: 10.02.01.01602

**Performance data**

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      |
|-------------|--------|--------|--------|--------|--------|
| SBPL ... HV | 350.00 | 600.00 | 900.00 | 910.00 | 911.00 |
| SBPL ... HF | 320.00 | 460.00 | 610.00 | 720.00 | 740.00 |



Art.-Nr.: 10.02.01.01602

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

|             | 0 | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  |
|-------------|---|------|------|------|------|------|------|------|------|
| SBPL 100 HV | - | 0.02 | 0.03 | 0.04 | 0.06 | 0.1  | 0.15 | 0.22 | 0.35 |
| SBPL 125 HV | - | 0.02 | 0.03 | 0.04 | 0.06 | 0.09 | 0.12 | 0.18 | 0.28 |
| SBPL 150 HV | - | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.1  | 0.15 | 0.25 |

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

|             | 0    | 50  | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SBPL 100 HV | 870  | 650 | 520 | 450 | 350 | 220 | 135 | 110 | 75  | 35  |
| SBPL 125 HV | 1010 | 760 | 620 | 530 | 425 | 245 | 170 | 140 | 95  | 45  |
| SBPL 150 HV | 1140 | 850 | 720 | 635 | 475 | 265 | 205 | 160 | 110 | 40  |

**Further documentation**CAD data and other documents relating to the article can be found at: [www.schmalz.com/10.02.01.01602](http://www.schmalz.com/10.02.01.01602)**Ordering Data Accessories 10.02.01.01602**

| Typ                       |                            | Item number    |
|---------------------------|----------------------------|----------------|
| Mouting bracket (inst.)   | BEF-WIN 72x25x77 SBPL/SCPL | 10.02.01.01705 |
| Vacuum gauge (electronic) | VAM-D 30x30 VP10 G1/8-AG   | 10.07.02.00055 |
| Vacuum gauge              | VAM 40 V DR BAR            | 10.07.02.00035 |
| Solenoid valve pressure   | EMV 3 24V-DC 2/2 NC K-2P   | 10.05.01.00366 |
| Quick release valve       | SEV G1/8-IG G1/4-AG        | 10.02.01.01471 |
| Hose sleeve               | ST 32 AL-EL                | 10.02.01.01681 |
| Vacuum hose (meter)       | VSL 27-20 PU-DS-AS TR      | 10.07.09.00047 |
| Vacuum hose (meter)       | VSL 32-25 PU-DS-AS TR      | 10.07.09.00051 |
| Vacuum hose (meter)       | VSL 42-32 PU-DS-AS TR      | 10.07.09.00036 |
| Exhaust air set           | ABL-SET SBPL/SCPL M        | 10.02.01.01939 |
| Exhaust air set           | ABL-SET SBPL/SCPL L        | 10.02.01.01940 |
| Dust filter               | STF G1-1/4-IG N            | 10.07.01.00008 |
| Retrofitting kit          | SET SBPL/SCPL 125/150      | 10.02.01.01686 |
| Extension (round)         | VRL-R NPT1 50.3x39 AL      | 10.02.01.02097 |



Art.-Nr.: 10.02.01.01602

**Ordering Data Spare Parts 10.02.01.01602**

| Typ                          |                        | Item number    |
|------------------------------|------------------------|----------------|
| Set of spare parts           | ERS SEP-22 6xRUE-KLAP  | 10.02.01.01450 |
| Silencer (cube-shaped-inst.) | SD 102x71x33 SBPL/SCPL | 10.02.01.01585 |
| Ejector module               | SEP HV 3 16 22         | 10.02.01.01397 |

**Ordering Data Wear Parts 10.02.01.01602**

| Typ                |                                   | Item number    |
|--------------------|-----------------------------------|----------------|
| Sealing frame      | DI-RA 112.5x34.8 NBR-55 SBPL/SCPL | 10.02.01.01541 |
| Set of spare parts | ERS SEP-22 6xRUE-KLAP             | 10.02.01.01450 |
| O-ring             | O-RING 10x2.5 NBR-70              | 10.07.08.00002 |

