



SCPLb 100 HV G SA NO PNP

**Technical data**

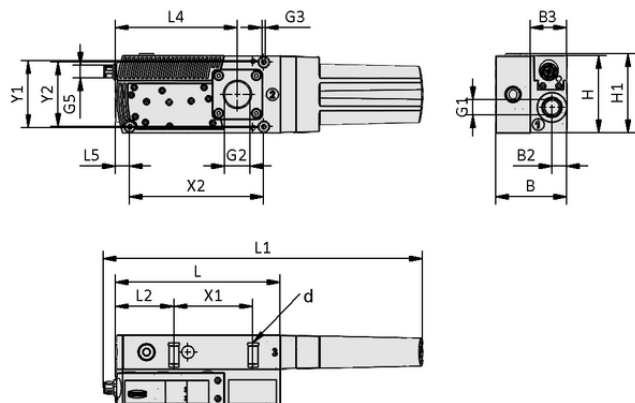
| Attribute                  | Value                   |
|----------------------------|-------------------------|
| Construction vacuum switch | PNP switching           |
| Electrical connection      | Male connect M12, 5 pol |
| Degree of evacuation       | 90.0 %                  |
| Air consumption suction    | 395.0 l/min             |
| Suction rate (max.)        | 870.0 l/min             |
| Size                       | 100.00                  |
| Thread G1                  | G3/8"-F                 |
| Thread G2                  | G1"-F                   |
| Shape compact ejectors     | Silencer axial          |
| Shape                      | High vacuum             |
| Control valve              | Normally open           |

The compact ejector SCPLb / SCPLc / SCPLi, available in various configurations, is delivered as a ready-to-connect product.

Available spare parts: silencer, SEP nozzle, filter screen

Available accessories: retrofit kit, mounting bracket, vacuum hose, hose sleeve, connection cable, vacuum monitoring, silencer, exhaust air collection duct

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**Design data**

| Attribute              | Value          |
|------------------------|----------------|
| Length L1              | 297.00 mm      |
| Length L2              | 54.50 mm       |
| Length L               | 153.50 mm      |
| Width B2               | 13.80 mm       |
| Width B                | 97.80 mm       |
| Height H1              | 74.00 mm       |
| Height H               | 72.00 mm       |
| Internal diameter d    | 5.50 mm        |
| Thread G1              | G3/8"-F        |
| Thread G2              | G1"-F          |
| Shape compact ejectors | Silencer axial |
| Length L4              | 113.50 mm      |
| Width B3               | 34.00 mm       |
| Hole spacing Y1        | 62.0 mm        |
| Hole spacing Y2        | 60.0 mm        |
| Hole spacing X1        | 73.5 mm        |
| Hole spacing X2        | 124.5 mm       |
| Length L5              | 13.50 mm       |
| Thread G3              | M4-F           |
| Thread G5              | M12x1-M        |

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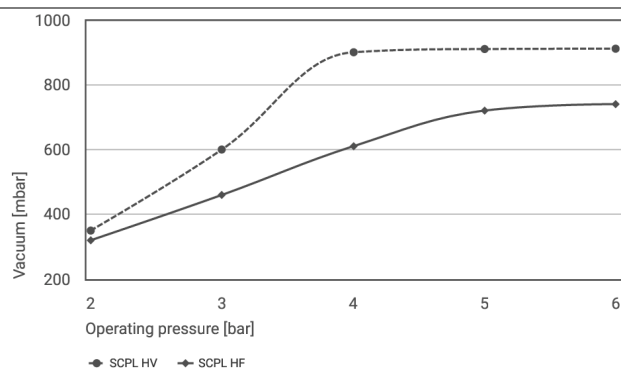
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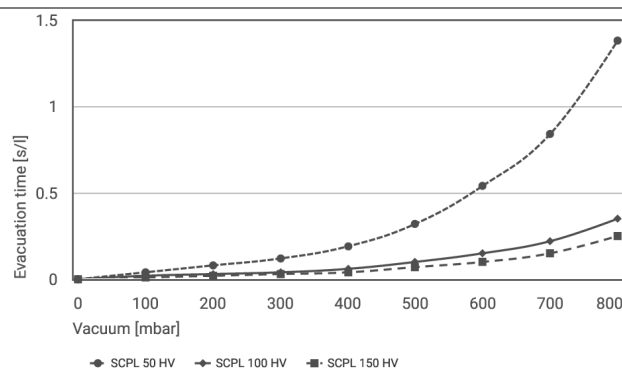
| Attribute                                         | Value                    |
|---------------------------------------------------|--------------------------|
| Construction vacuum switch                        | PNP switching            |
| Electrical connection                             | Male connect M12, 5 pol  |
| Protection type IP                                | IP 54                    |
| Nozzle size                                       | 1.6 mm (three-stage)     |
| Recommended hose internal diameter compressed air | 9.0 mm                   |
| Recommended hose internal diameter vacuum         | 32.0 mm                  |
| Degree of evacuation                              | 90.0 %                   |
| Max. vacuum                                       | 900 mbar                 |
| Sound pressure level suction                      | 64.0 dB(A)               |
| Sound pressure level free                         | 70.0 dB(A)               |
| Weight                                            | 1,250.00 g               |
| Max. air consumption blow-off                     | 124.0 l/min              |
| Air consumption blow-off                          | 7.400 m <sup>3</sup> /h  |
| Air consumption suction                           | 23.700 m <sup>3</sup> /h |
| Suction rate (max.)                               | 52.200 m <sup>3</sup> /h |
| Optimal operating pressure                        | 4.50 bar                 |
| Pressure range (operating pressure) [bar]         | 3.0 ... 6.0 bar          |
| Operating temperature                             | 0 ... 55 °C              |
| Control valve                                     | Normally open            |



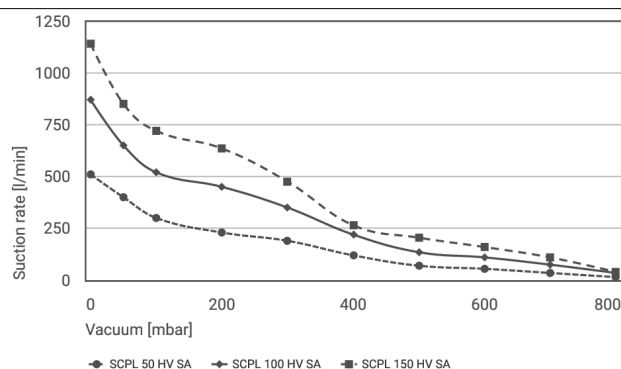
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**Performance data**

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



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

|             | 0 | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  |
|-------------|---|------|------|------|------|------|------|------|------|
| SCPL 50 HV  | - | 0.04 | 0.08 | 0.12 | 0.19 | 0.32 | 0.54 | 0.84 | 1.38 |
| SCPL 100 HV | - | 0.02 | 0.03 | 0.04 | 0.06 | 0.10 | 0.15 | 0.22 | 0.35 |
| SCPL 150 HV | - | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.10 | 0.15 | 0.25 |

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

|                   | 0    | 50  | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|-------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SCPL 50 HV<br>SA  | 510  | 400 | 300 | 230 | 190 | 120 | 70  | 55  | 35  | 15  |
| SCPL 100 HV<br>SA | 870  | 650 | 520 | 450 | 350 | 220 | 135 | 110 | 75  | 35  |
| SCPL 150 HV<br>SA | 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/10.02.02.07025](http://www.schmalz.com/10.02.02.07025)**Ordering Data Accessories 10.02.02.07025**

| Type                      |                            | Item number    |
|---------------------------|----------------------------|----------------|
| Connection cable          | ASK B-M12-5 5000 K-5P      | 21.04.05.00080 |
| Connection cable          | ASK B-M12-5 1000 S-M12-5   | 21.04.05.00158 |
| Connection cable          | ASK B-M12-5 2000 S-M12-5   | 21.04.05.00211 |
| Mouting bracket (inst.)   | BEF-WIN 72x25x77 SBPL/SCPL | 10.02.01.01705 |
| Exhaust air set           | ABL-SET SBPL/SCPL M        | 10.02.01.01939 |
| Hose sleeve               | ST 32 AL-EL                | 10.02.01.01681 |
| Dust filter               | STF G1-1/4-IG N            | 10.07.01.00008 |
| Vacuum gauge              | VAM 40 V DR BAR            | 10.07.02.00035 |
| Vacuum gauge (electronic) | VAM-D 30x30 VP10 G1/8-AG   | 10.07.02.00055 |
| Retrofitting kit          | SET SBPL/SCPL 125/150      | 10.02.01.01686 |
| Extension (round)         | VRL-R G1 50.3x39 AL        | 10.02.01.02093 |



Compact ejector

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### Ordering Data Spare Parts 10.02.02.07025

| Typ                          |                                   | Item number    |
|------------------------------|-----------------------------------|----------------|
| Ejector module               | SEP HV 3 16 22                    | 10.02.01.01397 |
| Set of spare parts           | ERS SEP-22 6xRUE-KLAP             | 10.02.01.01450 |
| Spare part (Ejector)         | ERS VENT SCPLb/c                  | 10.02.02.07698 |
| Silencer (cube-shaped-inst.) | SD 102x71x33 SBPL/SCPL            | 10.02.01.01585 |
| Sealing frame                | DI-RA 112.5x34.8 NBR-55 SBPL/SCPL | 10.02.01.01541 |
| O-ring                       | O-RING 10x2.5 NBR-70              | 10.07.08.00002 |
| Sieve, round                 | SIEB 36.2x0.2 A2 400 0.4/0.22     | 10.02.02.07119 |



[WWW.SCHMALZ.COM/10.02.02.07025](http://WWW.SCHMALZ.COM/10.02.02.07025)