

Art.-Nr.: 10.02.02.06763



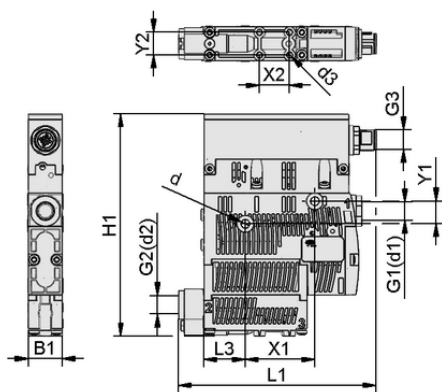
SCPS 07 M G02 NC M12-5 NPN

## Technical data

| Attribute                                 | Value                   |
|-------------------------------------------|-------------------------|
| Construction vacuum switch                | NPN switching           |
| Electrical connection                     | Male connect M12, 5 pol |
| Protection type IP                        | IP 65 (with plug)       |
| Max. vacuum                               | -850 mbar               |
| Air consumption suction                   | 22.0 l/min              |
| Suction rate (max.)                       | 16.0 l/min              |
| Connection                                | G1/8" (1)-G1/8" (2)     |
| Pressure range (operating pressure) [bar] | 3.0 ... 6.0 bar         |
| Shape compact ejectors                    | Power blow-off          |
| Nozzle size                               | 07                      |

Compact ejector SCPS / SCPSc / SCPSi is delivered as a ready-to-connect product (without connection cable).

Available accessories: connection cable, distributor, DIN rail mount, filter, compressed air connection plate, mounting set, exhaust air set



Design data SCPS 07 M G02 NC M12-5 NPN

## Design data

| Attribute              | Value          |
|------------------------|----------------|
| Length L1              | 105.00 mm      |
| Width B1               | 18.60 mm       |
| Height H1              | 117.80 mm      |
| Internal diameter d    | 4.40 mm        |
| Thread G1              | G1/8"-F        |
| Thread G2              | G1/8"-F        |
| Hole size d3           | 2.6 mm         |
| Shape compact ejectors | Power blow-off |
| Length L3              | 22.00 mm       |
| Hole spacing Y1        | 12.0 mm        |

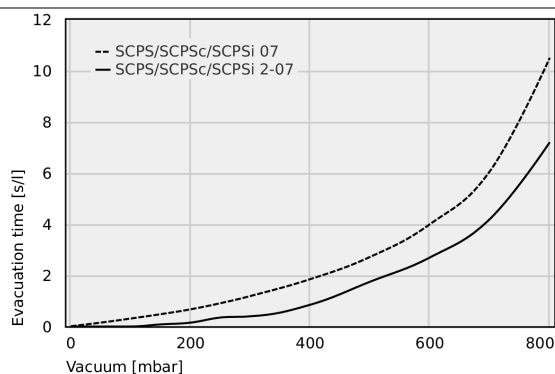
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**Technical data**

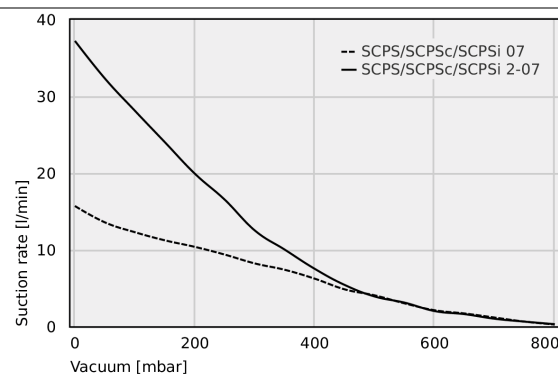
| Attribute                                         | Value           |
|---------------------------------------------------|-----------------|
| Recommended hose internal diameter compressed air | 4.0 mm          |
| Recommended hose internal diameter vacuum         | 4.0 mm          |
| Degree of evacuation                              | 85.0 %          |
| Sound pressure level suction                      | 58.0 dB(A)      |
| Sound pressure level free                         | 63.0 dB(A)      |
| Weight                                            | 0.212 kg        |
| Max. air consumption blow-off                     | 120.0 l/min     |
| Air consumption blow-off                          | 4.237 cfm       |
| Air consumption suction                           | 0.776 cfm       |
| Suction rate (max.)                               | 0.565 cfm       |
| Pressure range (operating pressure) [bar]         | 43.5 ... 87.0   |
| Operating temperature                             | 0 ... 50 °C     |
| Max. vacuum                                       | -25.100 inHg    |
| Product family                                    | SCPS            |
| Nozzle size                                       | 07              |
| Control valve                                     | Normally closed |



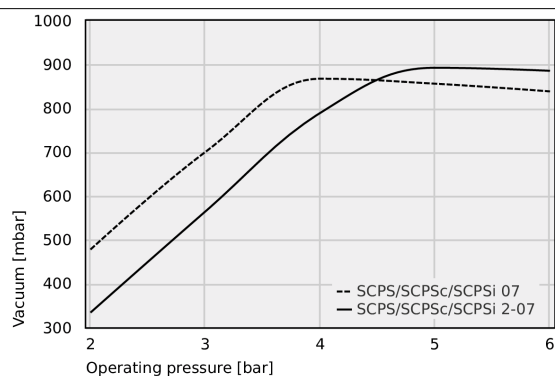
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**Performance data**

Evacuation time for various vacuum ranges [s/l]



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



Achievable vacuum at various operating pressures

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

|                           | 0    | 50   | 100  | 150  | 200  | 250  | 300  | 400  | 500  | 600  | 700  | 800  |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| SCPS/SCPSc/<br>SCPSi 07   | 0.01 | 0.15 | 0.31 | 0.48 | 0.67 | 0.91 | 1.19 | 1.85 | 2.72 | 4.00 | 6.07 | 10.5 |
| SCPS/SCPSc/<br>SCPSi 2-07 | 0.00 | 0.00 | 0.00 | 0.08 | 0.15 | 0.35 | 0.4  | 0.85 | 1.75 | 2.7  | 4.2  | 7.2  |



Art.-Nr.: 10.02.02.06763

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

|                                  | 0     | 50    | 100   | 150   | 200   | 250   | 300   | 350   | 400  | 450  | 500  | 550  | 600  | 650  | 700  | 750  | 800  |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| SCPS/<br>SCPSc/<br>SCPSi 07      | 15.69 | 13.56 | 12.28 | 11.22 | 10.37 | 9.36  | 8.21  | 7.38  | 6.22 | 4.83 | 4.05 | 3.00 | 2.11 | 1.69 | 1.16 | 0.63 | 0.25 |
| SCPS/<br>SCPSc/<br>SCPSi<br>2-07 | 37.2  | 32.30 | 28.10 | 24.00 | 19.90 | 16.50 | 12.50 | 10.00 | 7.50 | 5.40 | 3.90 | 3.10 | 2.00 | 1.60 | 1.00 | 0.63 | 0.30 |

**Achievable vacuum at various operating pressures**

|                       | 2      | 3      | 4      | 5      | 6      |
|-----------------------|--------|--------|--------|--------|--------|
| SCPS/SCPSc/SCPSi 07   | 477.81 | 700.18 | 867.18 | 855.86 | 838.29 |
| SCPS/SCPSc/SCPSi 2-07 | 334.00 | 564.57 | 789.19 | 892.20 | 885.26 |

**Further documentation**CAD data and other documents relating to the article can be found at: [www.schmalz.com/10.02.02.06763](http://www.schmalz.com/10.02.02.06763)**Ordering Data Accessories 10.02.02.06763**

| Typ                             |                              | Item number    |
|---------------------------------|------------------------------|----------------|
| Connection cable                | ASK B-M12-5 5000 K-5P        | 21.04.05.00080 |
| Distributor                     | ASV SM/CPi B-M12-5 2xS-M12-4 | 10.02.02.03490 |
| Vacuum filter (inline)          | VFI CN6/4 50                 | 10.07.01.00241 |
| Vacuum filter (inline)          | VFI 4/2 50                   | 10.07.01.00329 |
| Compressed-air connection plate | GP 3 SCPS 07..15 G2          | 10.02.02.04884 |
| Compressed-air connection plate | GP 4 SCPS 07..15 G2          | 10.02.02.04338 |
| Compressed-air connection plate | GP 5 SCPS 07..15 G2          | 10.02.02.04858 |
| Compressed-air connection plate | GP 6 SCPS 07..15 G2          | 10.02.02.04837 |
| Compressed-air connection plate | GP 8 SCPS 07..15 G2          | 10.02.02.04937 |
| Mounting set                    | SET SCPS                     | 10.02.02.04343 |
| Exhaust air set                 | ABL-SET SCPS einstufig       | 10.02.02.04216 |
| 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 |
| Top-hat rail clamp comp.        | HUT-SN-KL 75x18x9 SCPS       | 10.02.02.04149 |



Compact ejector

## SCPS 07 M G02 NC M12-5 NPN



Art.-Nr.: 10.02.02.06763



### Ordering Data Spare Parts 10.02.02.06763

| Typ                                  |                             | Item number    |
|--------------------------------------|-----------------------------|----------------|
| Silencer insert (round)              | SD-EINS 15x16.5 SD          | 10.02.02.04141 |
| Sieve, round                         | SIEB 11x2 X-5 0.415/0.22    | 10.02.02.04404 |
| Set of parts subject to wear ejector | VST SCPS-einstuf-SD         | 10.02.02.04737 |
| Release module (inst)                | MOD-ABW 54.8x18x19 SCPS/i/t | 10.02.02.06491 |



[WWW.SCHMALZ.COM/10.02.02.06763](http://WWW.SCHMALZ.COM/10.02.02.06763)