

Art.-Nr.: 10.01.30.00796



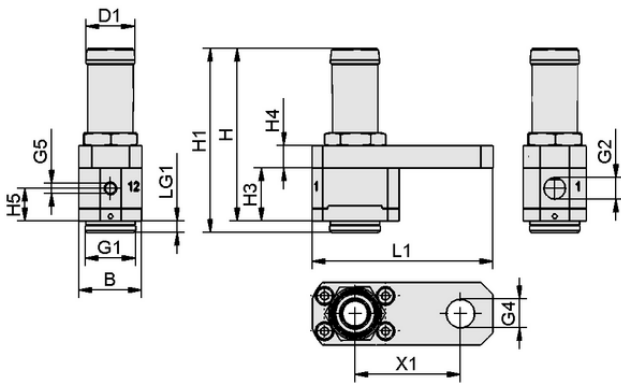
SCGS 1xE100 A MP AR M20x1-AG

Flow gripper SCGS is supplied as an individual part (without suction area). In order to receive a complete gripper the following ordering steps are required:

- Flow gripper SCGS – available for sideways mounting
- Suction area of type SAUG-FL/SAUG-SCGS – available in various dimensions

## Technical data

| Attribute                   | Value              |
|-----------------------------|--------------------|
| Additional function ejector | Exhaust duct axial |
| Mounting                    | Mounting plate     |
| Performance class           | E100               |
| Number of ejectors          | 1                  |



Design data SCGS 1xE100 A MP AR M20x1-AG

## Design data

| Attribute           | Value    |
|---------------------|----------|
| Length L1           | 72.00 mm |
| Width B             | 25.00 mm |
| Height H1           | 73.10 mm |
| Height H            | 68.60 mm |
| Outside diameter D1 | 19.5 mm  |
| Thread G1           | M20x1-M  |
| Thread length LG1   | 4.5 mm   |
| Thread G2           | G1/8"-F  |
| Height H3           | 21.10 mm |
| Height H4           | 9.00 mm  |

Flow gripper (mod)

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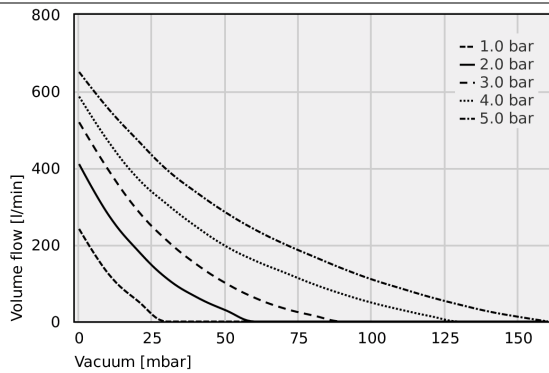
### Technical data

| Attribute                                 | Value              |
|-------------------------------------------|--------------------|
| Weight                                    | 95.0 g             |
| Additional function ejector               | Exhaust duct axial |
| Mounting                                  | Mounting plate     |
| Pressure range (operating pressure) [bar] | 1.0 ... 5.0 bar    |
| Operating temperature                     | 5 ... 75 °C        |
| Product family                            | SCGS               |

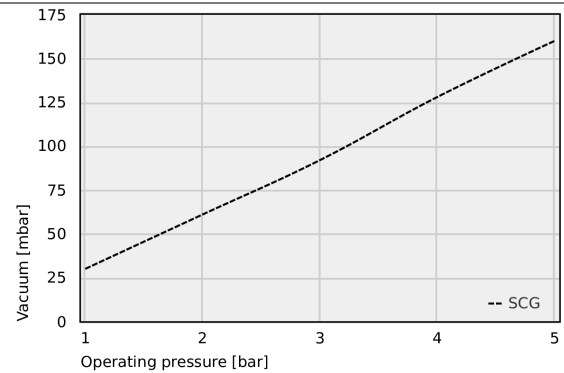


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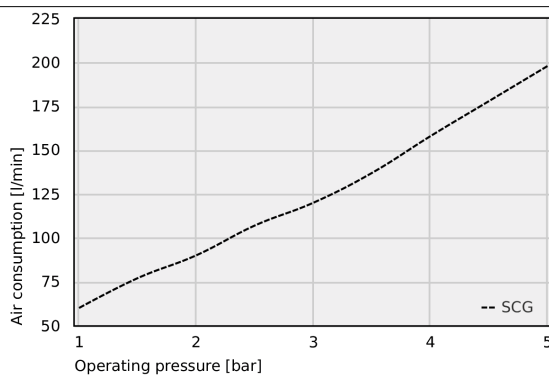
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**Performance data**

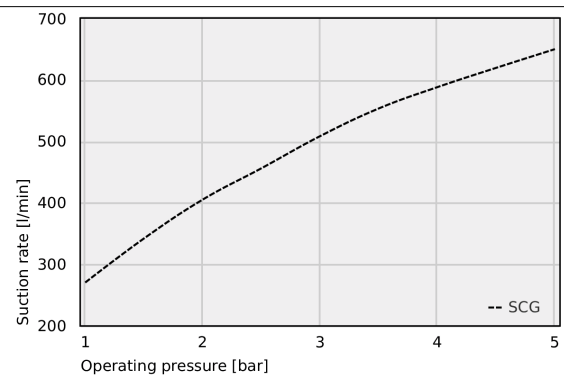
Flow rate at various degrees of evacuation



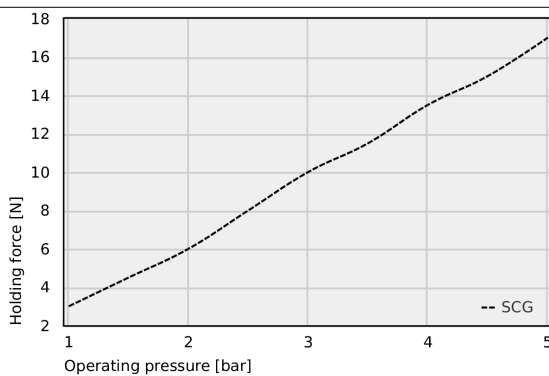
Achievable vacuum at various operating pressures



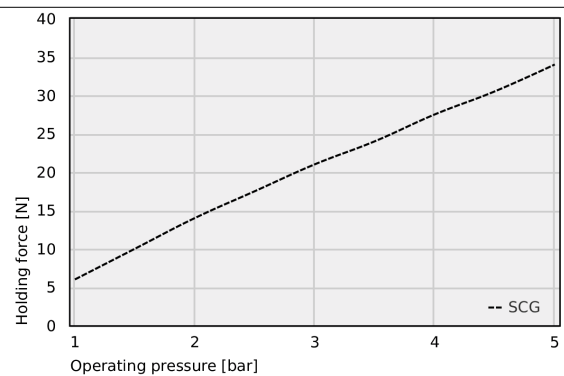
Air consumption



Suction rate at various degrees of evacuation



Holding force with suction area 40 at various operating pressures (measured on a suction-tight workpiece)



Holding force with suction area 60 at various operating pressures (measured on a suction-tight workpiece)



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**Flow rate at various degrees of evacuation**

| Typ     | 0     | 10    | 20    | 30    | 40    | 50    | 60    | 70    | 80    | 90    | 100   | 110  | 120  | 130  | 140  | 150  | 160 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-----|
| 1.0 bar | 241.0 | 124.1 | 53.6  | 0.0   | -     | -     | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    | -   |
| 2.0 bar | 410.0 | 277.9 | 185.1 | 111.7 | 63.8  | 29.2  | 0.0   | -     | -     | -     | -     | -    | -    | -    | -    | -    | -   |
| 3.0 bar | 519.0 | 394.6 | 289.0 | 210.8 | 149.2 | 99.9  | 61.5  | 34.0  | 15.4  | 0.0   | -     | -    | -    | -    | -    | -    | -   |
| 4.0 bar | 586.0 | 468.7 | 373.0 | 305.5 | 246.9 | 196.4 | 158.6 | 127.8 | 97.3  | 71.2  | 48.7  | 30.3 | 13.6 | 0.0  | -    | -    | -   |
| 5.0 bar | 650.0 | 554.1 | 472.0 | 395.2 | 336.5 | 284.2 | 239.5 | 202.1 | 169.3 | 137.6 | 109.4 | 85.8 | 63.2 | 43.5 | 25.7 | 12.1 | 0.0 |

**Achievable vacuum at various operating pressures**

| Typ | 1    | 2    | 3    | 4     | 5     |
|-----|------|------|------|-------|-------|
| SCG | 30.0 | 61.0 | 92.0 | 128.0 | 160.0 |

**Air consumption**

| Typ | 1     | 1.5   | 2     | 2.5    | 3      | 3.5    | 4      | 4.5    | 5      |
|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| SCG | 60.00 | 77.00 | 90.00 | 107.00 | 120.00 | 137.00 | 158.00 | 178.00 | 198.00 |

**Suction rate at various degrees of evacuation**

| Typ | 1      | 1.5    | 2      | 2.5    | 3      | 3.5    | 4      | 4.5    | 5      |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCG | 270.00 | 341.73 | 405.00 | 455.98 | 508.32 | 553.42 | 588.20 | 619.58 | 650.00 |

**Holding force with suction area 40 at various operating pressures (measured on a suction-tight workpiece)**

| Typ | 1    | 1.5  | 2    | 2.5  | 3     | 3.5   | 4     | 4.5   | 5     |
|-----|------|------|------|------|-------|-------|-------|-------|-------|
| SCG | 3.00 | 4.50 | 6.00 | 8.00 | 10.00 | 11.50 | 13.50 | 15.00 | 17.00 |



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**Holding force with suction area 60 at various operating pressures (measured on a suction-tight workpiece)**

| Typ | 1    | 1.5   | 2     | 2.5   | 3     | 3.5   | 4     | 4.5   | 5     |
|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|
| SCG | 6.00 | 10.00 | 14.00 | 17.50 | 21.00 | 24.00 | 27.50 | 30.50 | 34.00 |

**Further documentation**CAD data and other documents relating to the article can be found at: [www.schmalz.com/10.01.30.00796](http://www.schmalz.com/10.01.30.00796)**Ordering Data Accessories 10.01.30.00796**

| Typ                 |                             | Item number    |
|---------------------|-----------------------------|----------------|
| Suction area        | SAUG-FL SCGS 30 POM         | 10.01.30.00894 |
| Suction cup (round) | SAUG-SCGS 20 SI-MD-55 602 B | 10.01.30.01087 |
| Suction cup (round) | SAUG-SCGS 30 SI-MD-55 602 B | 10.01.30.01088 |
| Suction cup (round) | SAUG-SCGS 40 SI-MD-55 602 B | 10.01.30.01089 |
| Suction cup (round) | SAUG-SCGS 50 SI-MD-55 602 B | 10.01.30.01090 |
| Suction cup (round) | SAUG-SCGS 20 SI-HD-65 602 B | 10.01.30.01103 |
| Suction cup (round) | SAUG-SCGS 30 SI-HD-65 602 B | 10.01.30.01104 |
| Suction cup (round) | SAUG-SCGS 40 SI-HD-65 602 B | 10.01.30.01105 |
| Suction cup (round) | SAUG-SCGS 50 SI-HD-65 602 B | 10.01.30.01106 |
| Suction cup (round) | SAUG-SCGS 20 NBR-ESD-55 B   | 10.01.30.01091 |
| Suction cup (round) | SAUG-SCGS 30 NBR-ESD-55 B   | 10.01.30.01092 |
| Suction cup (round) | SAUG-SCGS 40 NBR-ESD-55 B   | 10.01.30.01093 |
| Suction cup (round) | SAUG-SCGS 50 NBR-ESD-55 B   | 10.01.30.01094 |
| Plug union, elbow   | STV-W G1/8-AG 6             | 10.08.02.00288 |
| Plug union, elbow   | STV-W M5-AG 6               | 10.08.02.00296 |
| Vacuum hose (meter) | VSL 26-19 PVC-DS KL-TR      | 10.07.09.00007 |



Flow gripper (mod)

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### Ordering Data Spare Parts 10.01.30.00796

| Typ                                  |                         | Item number    |
|--------------------------------------|-------------------------|----------------|
| Bellows suction cup f SCG(S)-gripper | BCG 20 SI-MD-55 SC085   | 10.01.06.04558 |
| Bellows suction cup f SCG(S)-gripper | BCG 30 SI-MD-55 SC085   | 10.01.06.04559 |
| Bellows suction cup f SCG(S)-gripper | BCG 40 SI-MD-55 SC095   | 10.01.06.04560 |
| Bellows suction cup f SCG(S)-gripper | BCG 50 SI-MD-55 SC095   | 10.01.06.04561 |
| Bellows suction cup f SCG(S)-gripper | BCG 20 NBR-ESD-55 SC085 | 10.01.06.04573 |
| Bellows suction cup f SCG(S)-gripper | BCG 30 NBR-ESD-55 SC085 | 10.01.06.04574 |
| Bellows suction cup f SCG(S)-gripper | BCG 40 NBR-ESD-55 SC095 | 10.01.06.04575 |
| Bellows suction cup f SCG(S)-gripper | BCG 50 NBR-ESD-55 SC095 | 10.01.06.04576 |
| Bellows suction cup f SCG(S)-gripper | BCG 20 SI-HD-65 SC085   | 10.01.06.04845 |
| Bellows suction cup f SCG(S)-gripper | BCG 30 SI-HD-65 SC085   | 10.01.06.04846 |
| Bellows suction cup f SCG(S)-gripper | BCG 40 SI-HD-65 SC095   | 10.01.06.04847 |
| Bellows suction cup f SCG(S)-gripper | BCG 50 SI-HD-65 SC095   | 10.01.06.04848 |



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