

Art.-Nr.: 10.01.30.00170



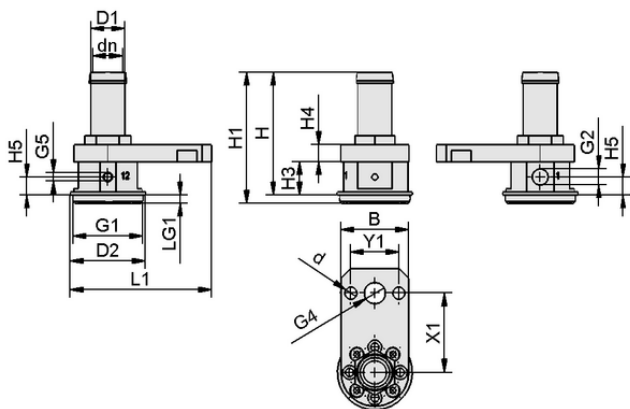
SCG 1xE100 A MS AR M37x1-AG

Technical data

Attribute	Value
Additional function ejector	Exhaust duct axial
Mounting	sideways
Performance class	E100
Shape compact ejectors	Blow-off function
Number of ejectors	1

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

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



Design data SCG 1xE100 A MS AR M37x1-AG

Design data

Attribute	Value
Length L1	74.90 mm
Width B	36.00 mm
Height H1	69.60 mm
Height H	65.10 mm
Outside diameter D1	18.0 mm
Outside diameter D2	39.8 mm
Nominal diameter dn	12.50 mm
Internal diameter d	6.60 mm
Thread G1	M37x1-M
Thread length LG1	4.5 mm



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**Technical data**

Attribute	Value
Shape compact ejectors	A
Weight	109.0 g
Mounting	sideways
Pressure range (operating pressure) [bar]	1.0 ... 5.0 bar
Operating temperature	5 ... 75 °C
Air consumption	60 ... 200 l/min
Air consumption [m³/h]	3.6 ... 12.0 m³/h
Suction rate	270 ... 650 l/min
Suction rate [m³/h]	16.2 ... 39.0 m³/h
Product family	SCG

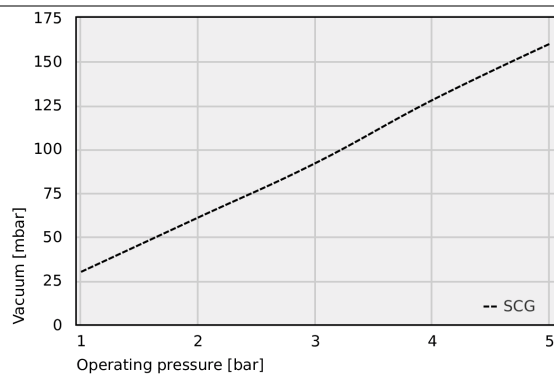
Note: Compressed-air consumption: The specified value can be equal for suction and blow-off. Operating pressures below 1 bar are possible but have to be tested individually



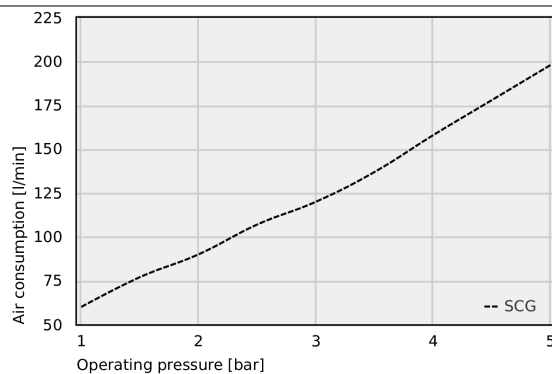
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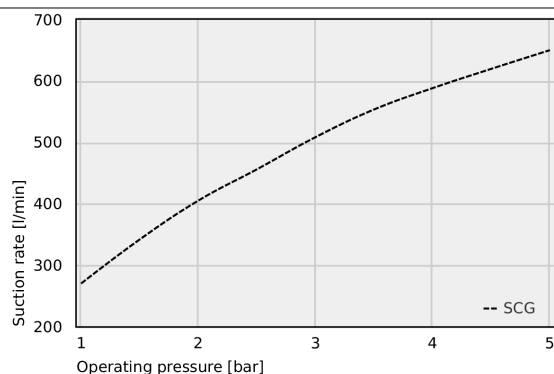
Performance data



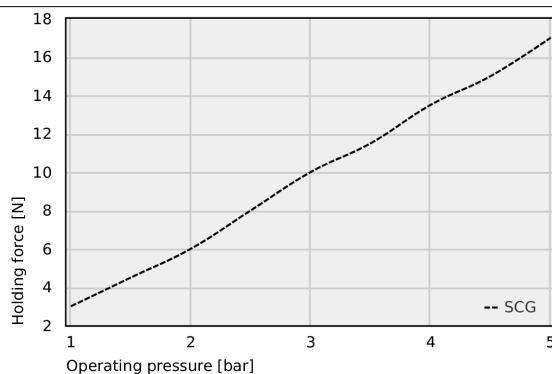
Achievable vacuum at various operating pressures



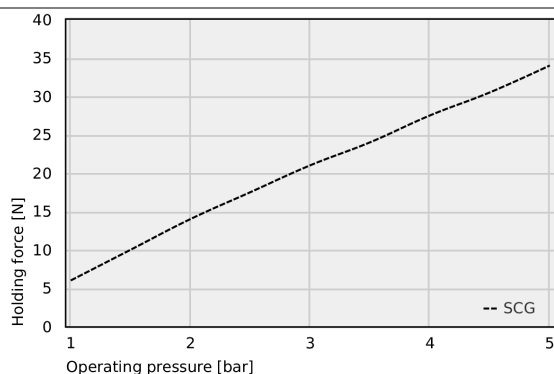
Air consumption



Suction rate at different operating pressures



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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**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 different operating pressures**

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

**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/10.01.30.00170

Flow gripper (mod)

SCG 1xE100 A MS AR M37x1-AG



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Ordering Data Accessories 10.01.30.00170

Typ		Item number
Suction area	SAUG-FL SCG 40 POM	10.01.30.00030
Suction area	SAUG-FL SCG 60 POM	10.01.30.00031
Suction cup (round)	SAUG-SCG 20 SI-MD-55 602 B	10.01.30.01079
Suction cup (round)	SAUG-SCG 30 SI-MD-55 602 B	10.01.30.01080
Suction cup (round)	SAUG-SCG 40 SI-MD-55 602 B	10.01.30.01081
Suction cup (round)	SAUG-SCG 50 SI-MD-55 602 B	10.01.30.01082
Suction cup (round)	SAUG-SCG 20 SI-HD-65 602 B	10.01.30.01099
Suction cup (round)	SAUG-SCG 30 SI-HD-65 602 B	10.01.30.01100
Suction cup (round)	SAUG-SCG 40 SI-HD-65 602 B	10.01.30.01101
Suction cup (round)	SAUG-SCG 50 SI-HD-65 602 B	10.01.30.01102
Suction cup (round)	SAUG-SCG 20 NBR-ESD-55 602 B	10.01.30.01083
Suction cup (round)	SAUG-SCG 30 NBR-ESD-55 602 B	10.01.30.01084
Suction cup (round)	SAUG-SCG 40 NBR-ESD-55 602 B	10.01.30.01085
Suction cup (round)	SAUG-SCG 50 NBR-ESD-55 602 B	10.01.30.01086
Silencer (round)	SD G3/8-AG 40x80 SCG	10.01.30.00352
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



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