



SGM-HP 50 G1/4-IG

Technical data

Attribute	Value
Pressure range (operating pressure) [bar]	2.5 ... 6.0 bar
Holding force max. with friction ring	385.0 N
Holding force max. without friction	560.0 N
Socket	G1/4"-F

Magnet gripper SGM-HP/-HT is delivered assembled. The assembly consists of:

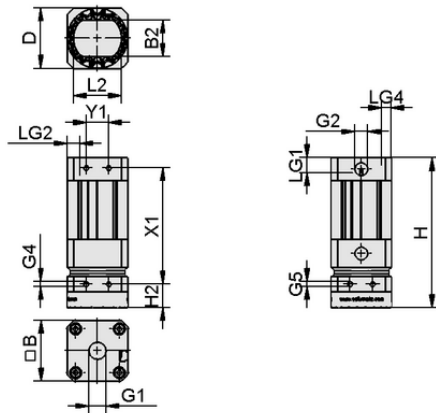
- Gripper SGM-HP with friction ring PU - available in various diameters
- Gripper SGM-HT with steel gripping surface for robust applications - available in various diameters
- Friction ring made of the material PU (only for SGM-HP)
- Optional friction ring HT2 for high-temperature applications (only for SGM-HT)
- Optional proximity switch (only for SGM-HP)

Available spare parts: friction ring PU for SGM-HP

Available accessories: proximity switch, holder system, mounting element (ADP), friction ring HT2, protection element



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**Design data**

Attribute	Value
Length L2	41.50 mm
Width B2	31.20 mm
Width B	50.70 mm
Height H2	15.70 mm
Height H	123.40 mm
Outside diameter D	50.00 mm
Thread G1	G1/4"-F
Thread length LG1	10.0 mm
Thread G2	G1/8"-F
Thread length LG2	6.0 mm

Note: Contact surface of grippers without friction ring (stadium-shaped) corresponds to dimension D x B2; with friction ring (round) dimension D

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**Technical data**

Attribute	Value
Weight	770.0 g
Installation position	BEL
Remaining holding force	0.3 N
Pressure range (operating pressure) [bar]	2.5 ... 6.0 bar
Operating temperature	5 ... 70 °C
Holding force 2 mm sheet with friction ring	290.0 N
Holding force 2 mm sheet without friction ring	415.0 N
Holding force max. with friction ring	385.0 N
Holding force max. without friction	560.0 N
Sheet thickness optimum for holding force max.	6.00 mm
Product family	SGM-HP-HT
Control valve	Bistable

Note: The specified holding forces are static values under optimal conditions (primarily depending on material and surface characteristics). For system designs, a safety factor of $S = 3$ must be applied. Holding forces SGM-HT-HP at 20 °C; can be used for workpiece temperatures up to 350 °C (depending on process conditions), the influence of temperature can reduce holding forces by up to 30%

**Further documentation**

CAD data and other documents relating to the article can be found at: www.schmalz.com/10.01.17.00282


WWW.SCHMALZ.COM/10.01.17.00282

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**Ordering Data Accessories 10.01.17.00282**

Typ		Item number
Holder system	HTS-A2 SGM-HP 50 OP	10.01.17.00568
Holder system	HTS-A3 SGM-HP 50 OP	10.01.17.00562
Holder system	HTS-A5 SGM-HP 50 OP	10.01.17.00564
Holder system	HPS-SGM-HP 2M8 50 OP	10.01.17.00652
Protection element	SCHUTZ SGM-50 ST	10.01.17.00520
Proximity switch	NAEH-SCHA SMAGN-PNP S051 300	10.01.17.00199
Proximity switch	NAEH-SCHA SMAGN-NPN S050 300	10.01.17.00215
Mounting element SGM	ADP-E-TRI 50 SET	10.01.17.00422
Mounting element SGM	ADP-E-UNI 50 SET	10.01.17.00415
Plug union, straight	STV-GE G1/8-AG 6	10.08.02.00204
Plug union, elbow	STV-W G1/8-AG 6	10.08.02.00158
Vacuum hose (meter)	VSL 6-4 PU MI-TR	10.07.09.00002

**Ordering Data Spare Parts 10.01.17.00282**

Typ		Item number
Friction ring	REIB-RING SGM-HP 50 PU-55	10.01.17.00381

