

Magnetic gripper

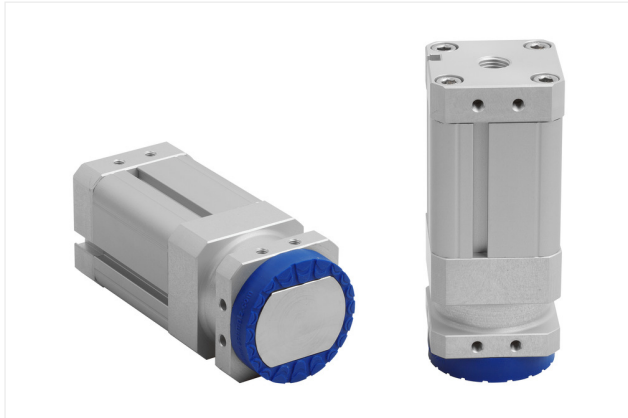
SGM-HP 50 G1/4-IG

Part no.: 10.01.17.00282

<https://www.schmalz.com/10.01.17.00282>

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Magnetic gripper for handling metal sheets with holes



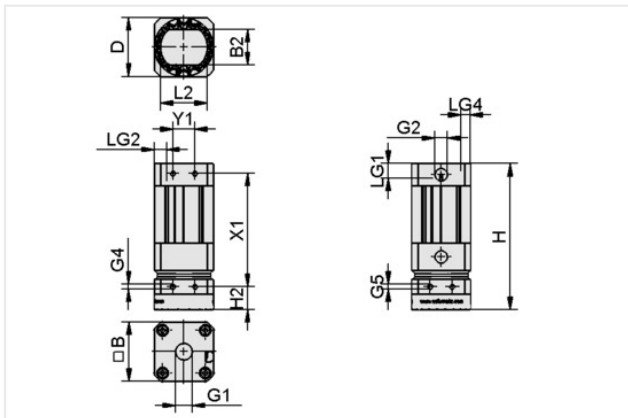
Socket: G1/4"-F

Pressure range (operating pressure): 2.5 ... 6.0 bar

Holding force max. friction ring: 385 N

Holding force max. without friction ring: 560 N

Design Data



Attribute	Value
B	50.70 mm
B2	31.20 mm
D	50 mm
G1	G1/4"-F
G2	G1/8"-F
G4	M5-F
G5	M4-F
H	123.40 mm
H2	15.70 mm
L2	41.50 mm
LG1	10 mm
LG2	6 mm
LG4	6.50 mm
X1	100 mm
Y1	15 mm

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

Technical Data

Attribute	Value
Holding force max. without friction ring	560 N

Contact Schmalz

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Holding force max. friction ring	385 N
Sheet thickness opt f. holding force max.	6 mm
Holding force 2mm-sheet without friction ring	415 N
Holding force 2mm-sheet friction ring	290 N
Remaining force	0.30 N
Pressure range (operating pressure)	2.5 ... 6.0 bar
Installation position	BEL
Control valve	Bistable
Operating temperature	5 ... 70 °C
Weight	770 g
Product family	SGM-HP-HT

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%

Accessories



HTS-A2 SGM-HP 50 OP

Part no.:10.01.17.00568

Connection 1: Bolt with slot Ø19mm

Construction use: Magnetic gripper SGM-HP

Size: 50



HTS-A3 SGM-HP 50 OP

Part no.:10.01.17.00562

Connection 1: Ball head 28.5 mm

Construction use: Magnetic gripper SGM-HP

Size: 50

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HTS-A5 SGM-HP 50 OP

Part no...:10.01.17.00564

Connection 1: Ball head 32 mm

Construction use: Magnetic gripper SGM-HP

Size: 50



HPS-SGM-HP 2M8 50 OP

Part no...:10.01.17.00652

Construction use: Magnetic gripper SGM-HP

Connection 1: 2x screws M8

Size: 50

Shape: One-piece



SCHUTZ SGM-50 ST

Part no...:10.01.17.00520

Construction use: Magnetic gripper

Size: 50

Material: Steel

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NAEH-SCHA SMAGN-PNP S051

Part no...:10.01.17.00199

Construction shape vacuum switch: Magn. cylind. sensor - PNP

Voltage DC: 15-30V DC

Electrical connection: Male connect M12, 4 pol



NAEH-SCHA SMAGN-NPN S050

Part no...:10.01.17.00215

Construction shape vacuum switch: Magn. cylind. sensor - NPN

Voltage DC: 12-30V DC

Electrical connection: Male connect M12, 4 pol



ADP-E-TRI 50 SET

Part no...:10.01.17.00422

Size: 50

Shape: Triangle

Workpiece diameter (min): 19 mm

Workpiece diameter (max): 30 mm

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ADP-E-UNI 50 SET

Part no...:10.01.17.00415

Size: 50

Shape: rectangular



STV-GE G1/8-AG 6

Part no...:10.08.02.00204

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 11.4 mm

Length L: 16.4 mm



STV-W G1/8-AG 6

Part no...:10.08.02.00158

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 20.1 mm

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VSL 6-4 PU MI-TR

Part no.:10.07.09.00002

External diameter D: 6 mm

Internal diameter d: 4 mm

Length max.: 500 m

Material hose: PU

Bending radius min.: 35 mm

Pressure range (operating pressure): -0.95 ... 10.00 bar

Operating temperature: -20 ... 90 °C

Spare parts



REIB-RING SGM 50 PU-55

Part no.:10.01.17.00381

Construction use: Magnetic gripper

Size: 50

External diameter D: 50 mm

Internal diameter d: 41.5 mm