

Magnetic gripper

SGM-HP 40X121

Part no.:10.01.17.00566

<https://www.schmalz.com/10.01.17.00566>

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Magnetic gripper for handling metal sheets with holes



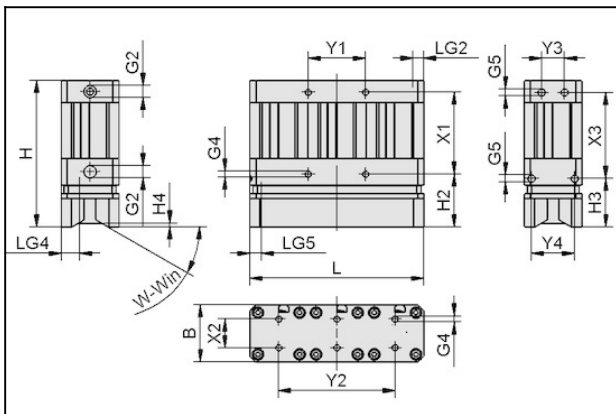
Size: 40X121

Holding force max: 1070 N

Pressure range (operating pressure):

2.5 ... 6.0 bar

Design Data



Attribute	Value
B	40 mm
G2	G1/8"-F
G4	M5-F
G5	M6-F
H	101.7 mm
H2	36.7 mm
H3	33.6 mm
H4	2.6 mm
LG2	7 mm
LG4	7 mm
LG5	6.5 mm
X1	57 mm
X2	20 mm

Contact to Schmalz

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Attribute	Value
Y1	40 mm
Y2	81 mm

Technical Data

Attribute	Value
Holding force max. without friction ring	1,070 N
Sheet thickness opt f. holding force max.	4 mm
Holding force 2mm-sheet without friction ring	650 N
Remaining force	1.8 N
Pressure range (operating pressure)	2.5 ... 6.0 bar
Installation position	Any
Control valve	Bistable
Operating temperature	5 ... 70 °C
Weight	1,500 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

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NAEH-SCHA SMAGN-PNP S051

Part no.10.01.17.00199

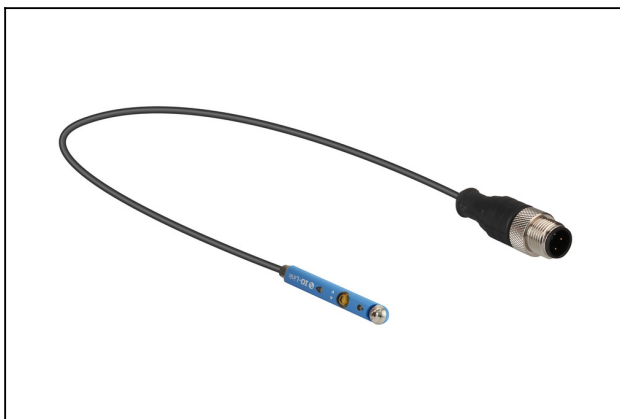
Proximity switch

Type: Magn. cylind. sensor-PNP

Voltage: 15-30V DC

Electrical connection:

Male connect M12, 4 pol



NAEH-SCHA SMAGN-NPN S050

Part no.10.01.17.00215

Proximity switch

Type: Magn. cylind. sensor-NPN

Voltage: 12-30V DC

Electrical connection:

Male connect M12, 4 pol



STV-GE G1/8-AG 6

Part no.10.08.02.00204

Push-in Fitting, straight

Thread G1: G1/8"-M

External hose diameter: 6 mm

Material: Brass

Surface: nickel plated

Ambient temperature: -20 ... 80 °C

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STV-W G1/8-AG 6

Part no.10.08.02.00158

Push-in Fitting, swivelling elbow

Thread G1: G1/8"-M

External hose diameter: 6 mm

Material: Brass, nickel-plated

Ambient temperature: -20 ... 80 °C



VSL 6-4 PU

Part no.10.07.09.00002

Hose for vacuum and compressed-air systems

External diameter D: 6 mm

Internal diameter d: 4 mm

Length (max): 500 m

Material: PU

Installation radius (min): 35 mm

Pressure range (operating pressure):

-0.95 ... 10.00 bar

Ambient temperature: -20 ... 90 °C

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