

Magnetic gripper

SGM-HP 20 G1/8-IG

Part no.:10.01.17.00424

<https://www.schmalz.ru/10.01.17.00424>

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Magnetic gripper for handling metal sheets with holes



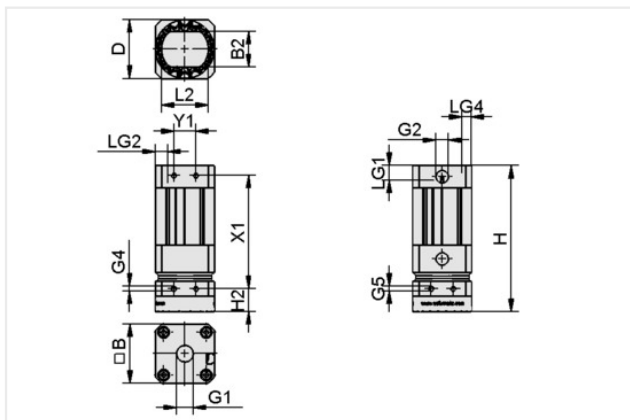
Socket: G1/8"-F

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

Holding force max. friction ring: 19 N

Holding force max. without friction ring: 28 N

Design Data



Attribute	Value
B	20.10 mm
B2	9.10 mm
D	20 mm
G1	G1/8"-F
G2	M5-F
G4	M3-F
G5	M3-F
H	78.20 mm
H2	13.20 mm
L2	12 mm
LG1	6 mm
LG2	5 mm
LG4	4 mm
X1	55 mm
Y1	6.50 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	28 N

Contact Schmalz

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Holding force max. friction ring	19 N
Sheet thickness opt f. holding force max.	1 mm
Holding force 2mm-sheet without friction ring	25 N
Holding force 2mm-sheet friction ring	16 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	81 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 20 OP

Part no...:10.01.17.00565

Connection 1: Bolt with slot Ø19mm

Construction use: Magnetic gripper SGM-HP

Size: 20



HTS-A3 SGM-HP 20 OP

Part no...:10.01.17.00561

Connection 1: Ball head 28.5 mm

Construction use: Magnetic gripper SGM-HP

Size: 20

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HTS-A5 SGM-HP 20 OP

Part no...:10.01.17.00579

Connection 1: Ball head 32 mm

Construction use: Magnetic gripper SGM-HP

Size: 20



HPS-SGM-HP 2M6 20 OP

Part no...:10.01.17.00654

Construction use: Magnetic gripper SGM-HP

Connection 1: 2x screws M6

Size: 20

Shape: One-piece



ADP-E-TRI 20 SET

Part no...:10.01.17.00419

Size: 20

Shape: Triangle

Workpiece diameter (min): 3 mm

Workpiece diameter (max): 10 mm

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ADP-E-UNI 20 SET

Part no...:10.01.17.00420

Size: 20

Shape: rectangular



MOD-SENS NAEH SGM-HP-20-NPN

Part no...:10.01.17.00448

Size: HP-20-NPN

Construction use: Magnetic gripper



MOD-SENS NAEH SGM-HP-20-PNP

Part no...:10.01.17.00447

Size: HP-20-PNP

Construction use: Magnetic gripper

Magnetic gripper

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STV-GE M5-AG 6

Part no...:10.08.02.00201

Thread G1: M5-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 9.9 mm

Length L: 18.8 mm



STV-W M5-AG 6

Part no...:10.08.02.00235

Thread G1: M5-M

Hose diameter: 6 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 19.7 mm



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

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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



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 20 PU-55

Part no.:10.01.17.00418

Construction use: Magnetic gripper

Size: 20

External diameter D: 20 mm

Internal diameter d: 12 mm

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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