

Superior Clamping and Gripping



Product Information

Hole grippers LOG

LOG

Hole grippers

Cost-effective. Smooth. Reliable.

Hole gripper LOG

Light gripper made of very resistant polyamide with closed diaphragm system

Field of application

Particularly suitable for highly dynamic applications with a low workpiece weight, for handling of small components and plastic parts, as well as for sand core handling



Advantages – Your benefits

Low weight allows high dynamics in the application

Closed membrane system and internal stop protect the expansion membrane against damage

Short delivery time for customized measurements

Long service life enables long-lasting economical use

Air supply via hose-free direct connection or screw connections for flexible pressure supply in all automated systems



Sizes
Quantity: 5



Weight
0.008 .. 0.44 kg



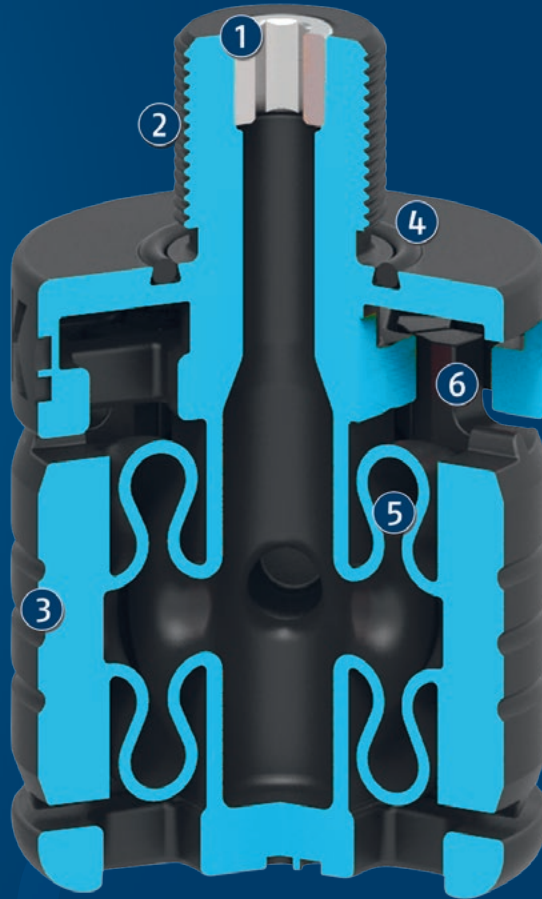
Clamping diameter
20 .. 99 mm



Workpiece weight
0.55 .. 12.83 kg

Functional description

The membrane expands when pressure is applied, creating a synchronized movement of the gripping surfaces.



① Air connection thread

② Mounting threads

③ Gripping surface

④ O-ring seal
for hose-free direct connection

⑤ Membrane

⑥ Internal stop/overload protection

General notes about the series

Operating principle: Membrane

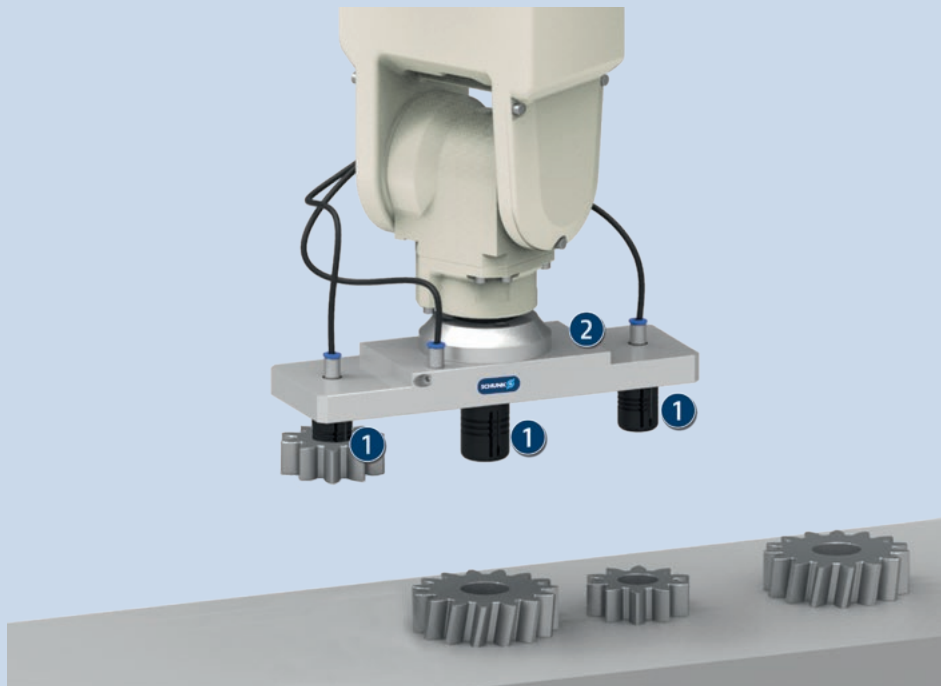
Housing material: PA 12

Base jaw material: PA 12

Actuation: pneumatic, with filtered compressed air as per ISO 8573-1:2010 [7:4:4].

Scope of delivery: Assembly instructions (operating manual with declaration of incorporation is available online)

Gripping force maintenance: not possible



Application example

Handling of gears with different diameters

❶ Hole gripper LOG

❷ Customized adapter plate

SCHUNK offers more ...

The following components make the product LOG even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Universal gripper



Miniature swivel unit



Linear module



Compensation unit



Pressure maintenance valve



Manual change system

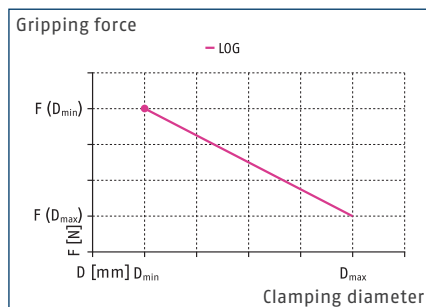
① For more information on these products can be found on the following product pages or at [schunk.com](https://www.schunk.com). Please contact us: SCHUNK technical hotline +49-7133-103-2696

Options and special information

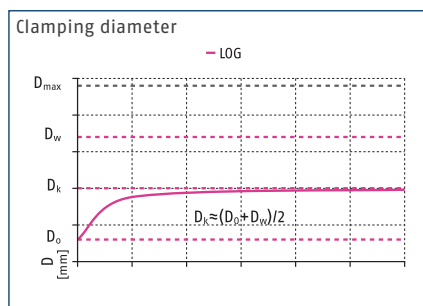
Additional sizes and customized designs are available upon request



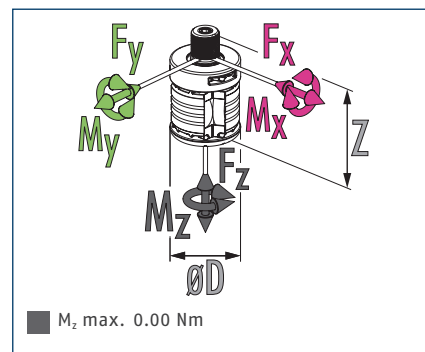
Gripping force I.D. gripping



Creep properties



Dimensions and maximum loads



① The indicated moments and forces are static values and should not appear simultaneously.

Technical data

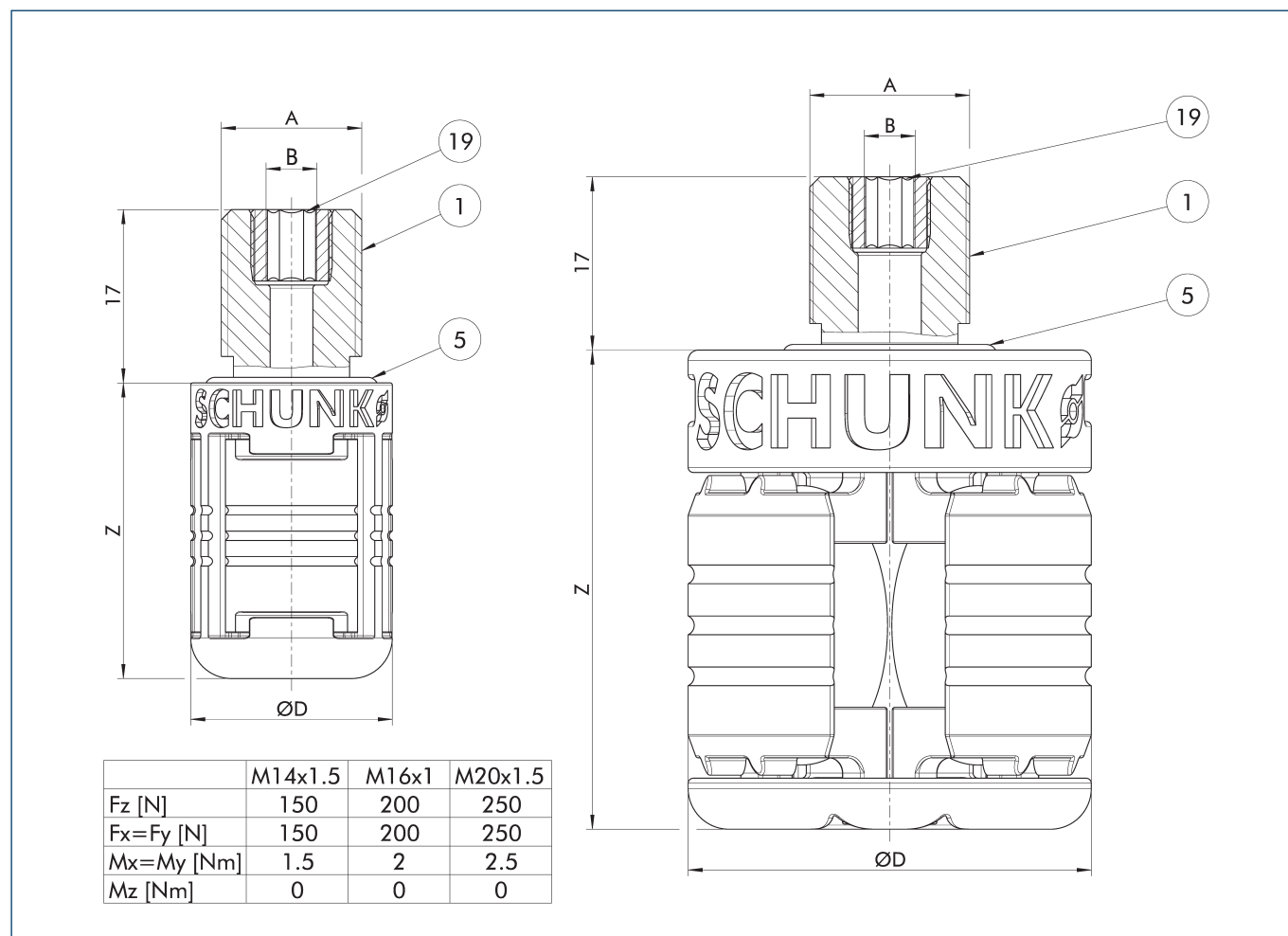
Description		LOG 20.0-M14x1.5-M5	LOG 40.0-M16x1-M5	LOG 60.0-M16x1-M5	LOG 80.0-M20x1.5-G1/8	LOG 99.0-M20x1.5-G1/8
ID		0398920	0398940	0398960	0398980	0398999
Mounting thread A		M14 x 1.5	M16x1	M16x1	M20x1.5	M20x1.5
Air connection thread B		M5	M5	M5	G1/8"	G1/8"
Min. workpiece diameter	[mm]	20	40	60	80	99
Max. workpiece diameter	[mm]	20.3	44.37	66.13	88.7	110.7
Opening force for $\varnothing D_{min}$	[N]	107.2	241.4	596.7	972.7	2516.7
Opening force for $\varnothing D_{max}$	[N]	27.3	66.7	190.5	433.3	1166.7
Weight	[kg]	0.008	0.034	0.108	0.238	0.44
Recommended workpiece weight	[kg]	0.55	1.23	3.04	4.96	12.83
Fluid consumption double stroke	[cm ³]	2.35	8.21	28.82	65.34	122.8
Max. operating pressure	[bar]	6	6	6	6	6
Nominal operating pressure	[bar]	6	6	6	6	6
Closing/opening time	[s]	0.05/0.05	0.08/0.08	0.14/0.14	0.22/0.22	0.44/0.44
Min./max. ambient temperature	[°C]	-40/80	-40/80	-40/80	-40/80	-40/80
Housing material		PA 12	PA 12	PA 12	PA 12	PA 12
Dimensions $\varnothing D \pm 0.2 \times Z$	[mm]	19.8 x 29	39.6 x 47	59.4 x 70.5	79.2 x 94	98.01 x 116.33
Moments M_x max./ M_y max.	[Nm]	1.50/1.50	2.00/2.00	2.00/2.00	2.50/2.50	2.50/2.50
Forces F_x max./ F_y max./ F_z max.	[N]	150.00/150.00/150.00	200.00/200.00/200.00	200.00/200.00/200.00	250.00/250.00/250.00	250.00/250.00/250.00

① The gripping force can be set directly by the operating pressure. At a lower pressure than the nominal operating pressure, the full stroke cannot be achieved.

The size graduation varies by 1 mm respectively. Please note that the fastening thread A is independent of the size. (LOG 20-25: M14x1.5; LOG 26-63: M16x1; LOG 64-99: M20x1.5)

Information about other sizes can be found online.

Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

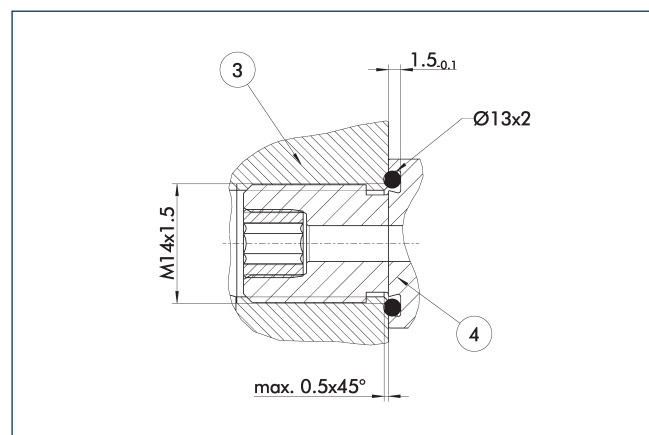
① You will find dimensions A, B, D, and Z in the technical data table.

① Gripper connection

①⑨ Air connection

⑤ O-ring

Hose-free direct connection M14x1.5

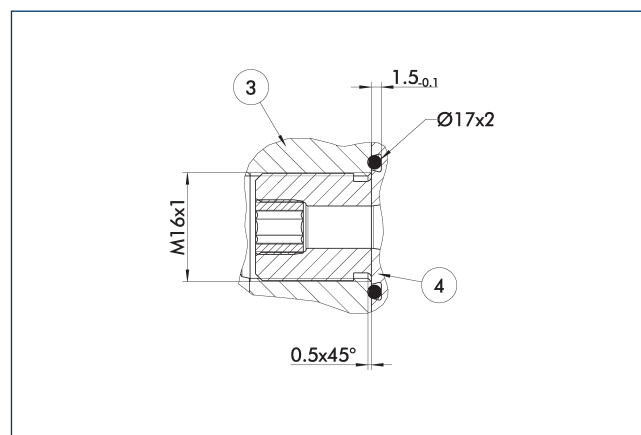


③ Adapter

④ Grippers

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

Hose-free direct connection M16x1

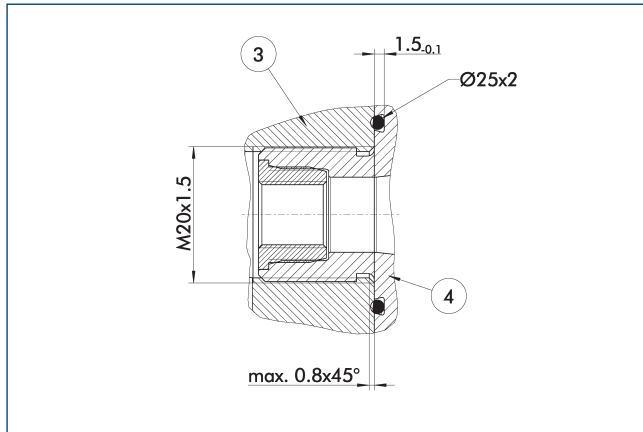


③ Adapter

④ Grippers

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

Hose-free direct connection M20x1.5

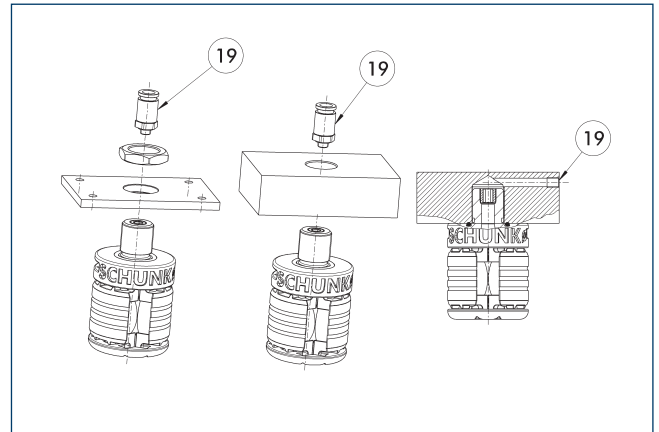


③ Adapter

④ Grippers

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

Connection possibilities



①⑨ Air connection

The LOG can be easily screwed in by a through-bore with lock nut or directly into an adapter plate.

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