

Subject to modifications

130 200 230 400 Spring return force, min. [N] Piston Ø d 25 32 40 50 [mm] 8 8 8 12 Stroke [mm] 7 4 10 24 Total oil volume [cm³] 47 40 50 [mm] 75 b [mm] 32.5 34.5 36 56 23.5 25 26 43 [mm] 11.5 19.5 24 14 [mm] 42 32 47 58 [mm] G 1/8 G 3/8 G 1/4 G 1/2 g [mm] [mm] 50 100 150 200 SW 4 6 6 8 [mm] 10 20 25 30 Tightening torque [Nm] 0.59 Weight 0.10 0.17 0.28 [kg] 1075020 1072010 1073010 1074010 Part no. Wiper ring Part no. 3000838 3000710 3000649 3000484 Part no. 5700005 5700006 5700007 5700008 Seal kit

[kN]

[kN]

Part no.

12.25

4.9

Technical data

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С

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Mounting sleeve

Location hole

base.

Advantages

Low built-in height

Very compact design

Max. operating pressure 250 bar

Clamping force at 250 bar

Clamping force at 100 bar

Easily exchangeable
High force density



 Extremely low overall height, despite return spring and fully utilisable stroke limitation

Built-in Pistons

HILMA = STARK

single acting, with spring return max. operating pressure 250 bar



Application

Built-in pistons are used in bars and blocks for clamping and locking of workpieces and dies. The built-in pistons are particularly suitable for narrow and flat installation spaces due to their compact design.

Description

Plunger piston, single acting, with integrated return spring, stroke limitation and fixing screw form a subassembly that cannot be disassembled.

Sealing ring made from PTFE, O-ring as static seal. Piston hardened and ground. On request, a wiper ring is supplied for installation in the housing. Special seals on request.

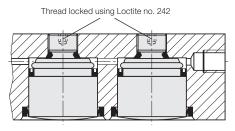
Important notes

Lateral forces less than 5 % of clamping forces. To ensure perfect operation, the installation dimensions and surface qualities must be strictly observed.

Use Allen key for assembly and disassembly. Replace O-ring after disassembly. Max. operating temperature 80 °C. Use Loctite no. 242 to secure thread.

Application example

Built-in piston integrated in a clamping bar

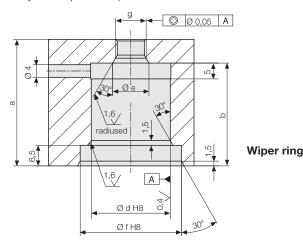


Hydraulic power units see product group 7

Hydraulic accessories see product group 11

Only one oil port is required.

Hydraulic oil supply through holes drilled in the



Mounting sleeve

5700009

for built-in piston and wiper ring

5700010

5700011



O-ring

Sealing

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duh

48.75

19.5

5700012

q

SW

Ødf7

31.25

12.5

20

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