Built-in Piston
single acting with spring return
max. operating pressure 250 bar

Application
Easy installation in bars and blocks. Suitable for workpiece clamping and locking as well as for perforating, punching and stamping of sheet steel.

Description
Plunger piston with integrated pull-back spring, stroke limitation and fastening screw form a unit that cannot be disassembled. With PTFE-type piston seal. O-ring as static seal. Piston hardened and ground.
Wiper for case mounting supplied upon request.
Special seals on request.

Advantages
- low built-in height
- very compact design
- extremely low overall height despite of return spring and fully utilizable stroke limitation
- easily exchangeable
- high force density

Note:
Lateral forces less than 5% of clamping forces.
To ensure perfect function, build-in dimensions and surface qualities are to be strictly observed.
Use Allen key for assembly and disassembly.
Replace O-ring after disassembly.
Max. service temperature 80°C.
Use Loctite no. 242 to secure thread.

Important notes
Operating conditions, tolerances and other data see data sheet A 0.100

Power units see catalogue section “D”.

Clamping force at 250 bar [kN] 12.25 20 31.25 48.75
100 bar [kN] 4.9 8 12.5 19.5
Spring return force, min. [N] 130 200 220 400
Piston Ø d [mm] 25 32 40 50
Stroke [mm] 8 8 8 12
Total oil volume [cm³] 4 7 10 24
a ±0.3 [mm] 40.3 47.3 50.3 75.3
b +0.4 [mm] 32.5 34.5 36 56
c [mm] 23.5 25 26 43
e [mm] 11.5 14 19.5 24
f [mm] 32 42 47 58
G 1/8 [mm] 50 100 150 200
SW 1/4 [mm] 4 6 6 8
Seating torque [Nm] 10 20 25 30
Weight [kg] 0.10 0.17 0.28 0.59

Part no.
1072010 1073010 1074010 1075020
Wiper Part no. 3000838 3000710 3000649 3000484
Seal kit Part no. 5700005 5700006 5700007 5700008
Mounting sleeve Part no. 5700009 5700010 5700011 5700012

* O-Ring and piston seal are delivered with built-in piston

Mounting sleeve and wiper
Use absolutely necessary!

Application example
Secured by means of Loctite no. 242