

Pneumatic Centric Grippers

OPL 3-Finger

OPL is a compact three finger parallel gripper featuring high process reliability and long service life, suitable for handle low weight components.

Advantages

- Compact housing made of hard coated aluminum alloy.
- Sturdy C-slot guidance with hardened steel gibs for effective jaw guidance, precise handling, and easy maintenance.
- Wedge-hook design for high power transmission and synchronized gripping.
- Mounting from two sides in two screw directions for universal and flexible gripper assembly.
- Air supply via fitting screw connections.

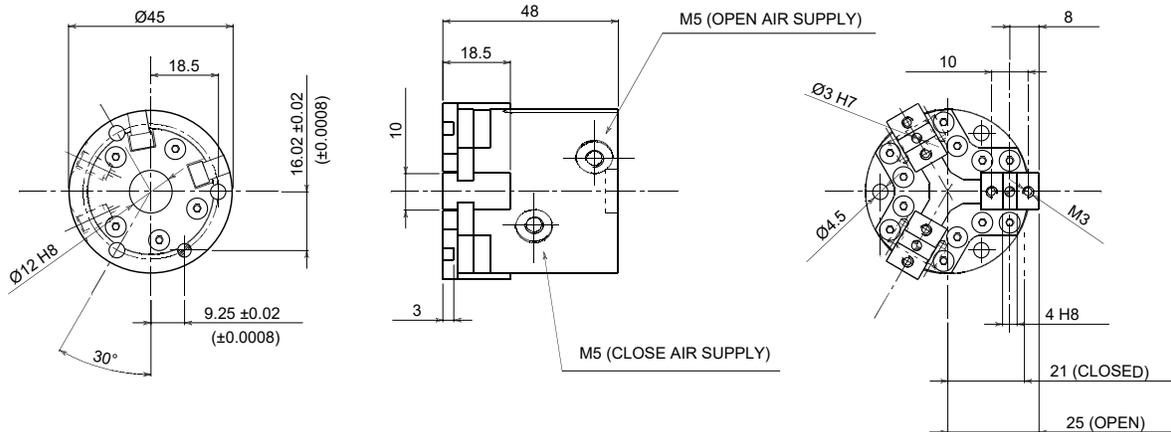


SPECIFICATIONS

| Model | Stroke Per Jaw | Air Consumption Per Cycle (Dual Stroke) | Closing Force Per Jaw @ 6 bar | Opening Force Per Jaw @ 6 bar | Recommended Workpiece Weight* | Weight | Repeatability | Opening Pressure | Working Temperature | Noise Emission (Sound Pressure) |
|----------|-----------------|---|-------------------------------|-------------------------------|-------------------------------|--------------------|---------------------------|-------------------------------|----------------------------|---------------------------------|
| OPL 45-3 | 4 mm 0,16 in | 3,4 cm ³ 0,21 in ³ | 45 N 10,1 lb | 53 N 11,9 lb | 0,45 Kg 1,0 lb | 0,25 Kg 0,55 lb | ± 0,05 mm (±0,0020 in) | 2 - 7 bar (29 - 101,5 psi) | 5 - 60 °C (41 - 140 °F) | <= 70 db(A) in any direction |

* Recommended workpiece weight is calculated for force-fit gripping with a static Coefficient of Friction of 0.15 and a Safety Factor of 3 against workpiece slippage.

PRODUCT INFORMATION



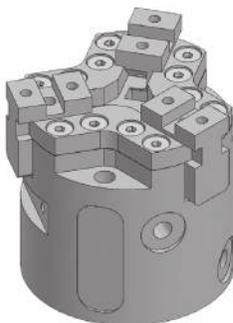
Options

- Mounting brackets for inductive proximity switches

* Dimensions are in millimeters (inches).

** All dimensions are descriptive and subject to variation for technical upgrading. We reserve the right to make variations without prior notification

SECTIONAL DIAGRAM



Guidelines for the selection of a gripper model

Selection of the correct gripper model depends on the workpiece's weight, the friction coefficient between the fingers and the workpiece and the required motion of the application.

Due to inertial forces associated with motion, the gripper model should feature a holding force from 10 to 20 times the workpiece's weight.

If the application presents high acceleration/deceleration or impact during the motion, then a further safety margin should be considered.

