

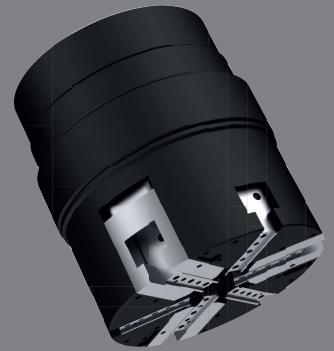
Pneumatic O-Ring Grippers

PMIE 6-Finger

PMIE are innovative multi-finger grippers for handling and assembling internal and external O-rings

Advantages

- Specifically designed with an independent device which expands the gasket and another which subsequently ejects it for assembling.
- Ability to assemble particularly thick gaskets and to position them in seats which are located at a distance from the ends of the housing.
- Adjustable stroke suitable for different O-ring sizes.
- Robust lightweight housing made of hard-coated aluminum alloy.



SPECIFICATIONS

Model	Nr. of Jaws	Stroke Per Jaw	Ejector Stroke	Opening force per jaw @ 6 bar	Closing force per jaw @ 6 bar	Ejector force @ 6 bar	Repeat Accuracy	Weight
PMIE6	6	"A" fingers 17.0 mm	5 mm	"A" fingers 31.6 N	"A" fingers 30.0 N	"A" down 200 N	± 0.05 mm ±0.0020 in	1.95 kg
		"B" fingers 13.5 mm		"B" fingers 50.0 N		"A" up 385 N		
		"A" fingers 0.67 in	0.2 in	"A" fingers 1.24 lb	"A" fingers 1.18 lb	"A" down 7.87 lb		4.30 lb
		"B" fingers 0.53 in		"B" fingers 1.97 lb		"A" up 15.16 lb		

Operating Pressure **4 - 8 bar (58 - 116 psi)**

Working Temperature **5 - 60 °C (41 - 140 °F)**

Noise Emission (Sound Pressure) **<= 70 db(A) in any direction**

SECTIONAL DIAGRAM



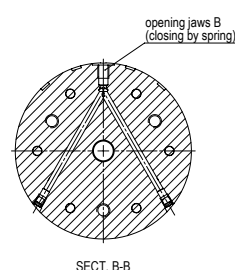
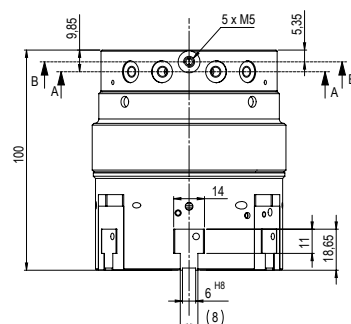
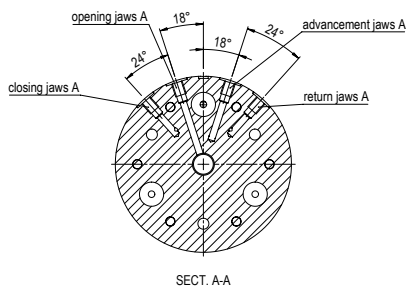
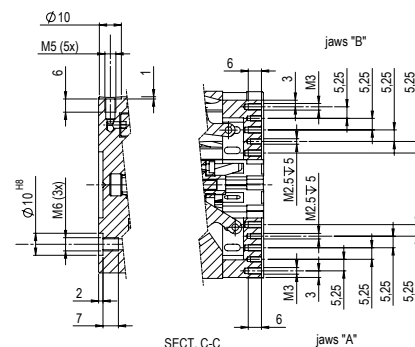
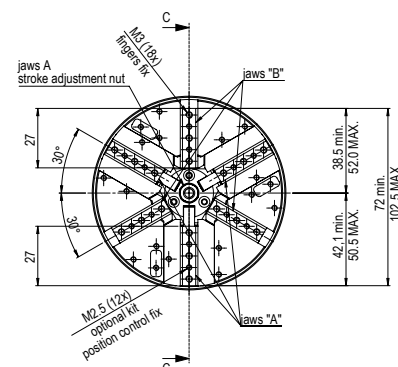
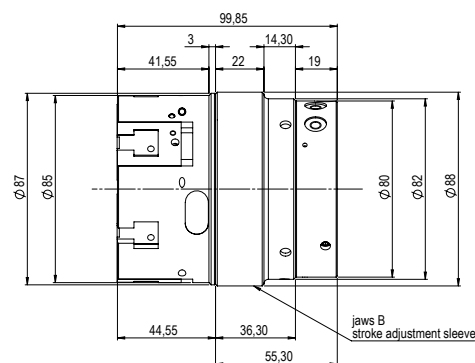
Guidelines for the selection of a gripper model

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, we recommend that the holding force of the gripper model should be from 10 to 20 times the workpiece's weight. If the application presents high acceleration/deceleration or impacts during the motion, then a further safety margin should be considered.



- The opening stroke of the jaws is adjustable:
 - Triple "A" jaws adjustment with central nut
 - Triple "B" adjustment jaws with knurled external sleeve
- The closing stroke of the jaws is fixed.
- The force value at the jaws is the arithmetic sum at about 20 mm from the finger fixing plane.
- The gripper must be used in clean work environments, typically in assembly environments.
- The gripper is suitable for external or internal mounting of seals.

- **Additional optional operations:**
 - The 3 triple "A" jaws are advanced with the linear stroke (ejector), then the jaws are opened ensuring that the gasket is fully seated.
 - The 3 triple jaws "A" are closed, then retracted with the linear stroke and opened again.



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