

Pneumatic Angular Grippers OF 2-Finger

OF is an angular gripper for universal use in clean or dirty environments.
Suitable for space sensitive applications

Advantages

- Slim design allows multiple grippers to be arranged in a row.
- Available a range of piston plate diameters from 20 to 32 mm.
- Light, compact design for space-saving handling without interference.
- Integrated permanent magnets for direct monitoring of piston movement.
- Slots for mounting and positioning of magnetic-field sensors.

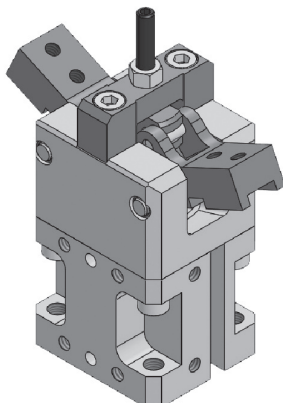


SPECIFICATIONS

Model	Stroke Per Jaw	Air Consumption Per Cycle (Dual Stroke)	Closing Force Per Jaw @ 6 bar	Opening Force Per Jaw @ 6 bar	Total Closing Force @ 6 bar	Total Opening Force @ 6 bar	Recommended Workpiece Weight*	Weight	Repeatability
OF 20	80°	7.6 cm ³	28.7 N	32.6 N	57.4 N	65.2 N	0.29 kg	0.25 kg	± 0.05 mm
		0.46 in ³	6.5 lb	7.3 lb	12.9 lb	14.7 lb	0.60 lb	0.55 lb	± 0.002 in
OF 25	80°	16.2 cm ³	60 N	67 N	120 N	134 N	0.60 kg	0.45 kg	± 0.05 mm
		0.99 in ³	13.5 lb	15.1 lb	27.0 lb	30.1 lb	1.30 lb	0.99 lb	± 0.002 in
OF 32	85°	32.2 cm ³	118 N	130 N	236 N	260 N	1.18 kg	0.78 kg	± 0.05 mm
		1.96 in ³	26.5 lb	29.2 lb	53.1 lb	58.4 lb	2.60 lb	1.72 lb	± 0.002 in

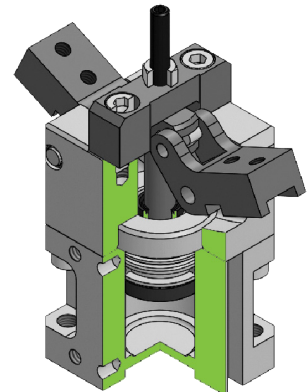
* Recommended workpiece weight is calculated for force-fit gripping with a coefficient of static friction of 0.15 and a safety factor of 3 against workpiece slippage.
Operating Pressure **3 - 8 bar (29 - 116 psi)**
Working Temperature **5 - 60 °C (41 - 140 °F)**
Noise Emission (Sound Pressure) **≤ 70 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.



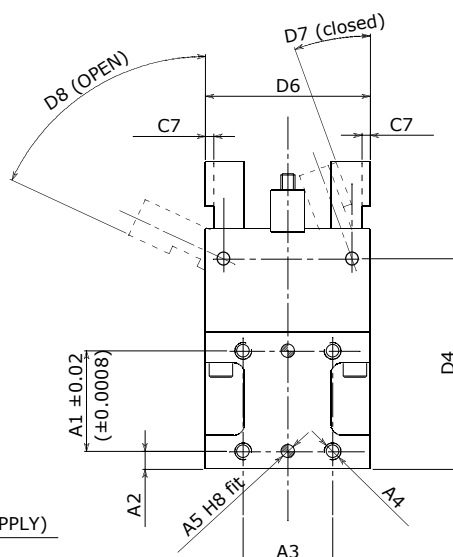
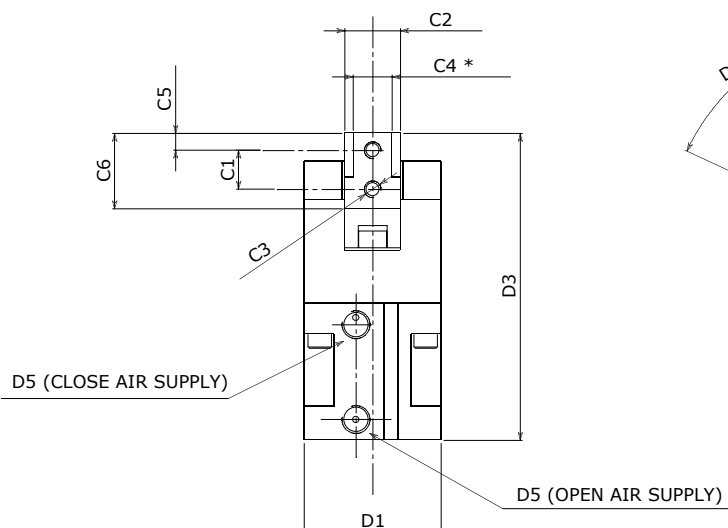
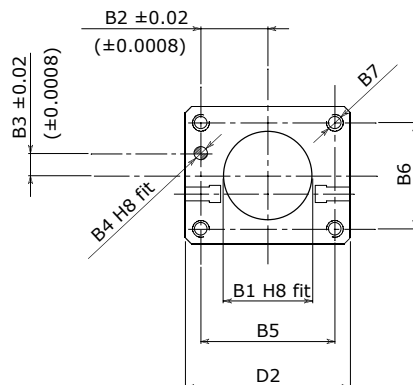
PRODUCT INFORMATION

OF 2-Finger

Body dowel hole depth ≥ 1 d
 C4* Up to 6 mm = $0/+0.025$ mm - From 6 mm to 10 mm =
 $0/+0.030$ mm - Over 10 mm = $0/+0.040$ mm



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Options

- Mounting brackets for inductive proximity switches
- Magnetic switches

	Mounting - Option # 1					Mounting - Option # 2						
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7
OF 20	28.0 (1.10)	4.5 (0.18)	18 (0.71)	M4	4 (0.16)	20.00 (0.79)	14 (0.55)	4 (0.16)	4 (0.16)	28 (1.10)	22 (0.87)	M5
OF 25	32.0 (1.26)	5.5 (0.22)	20 (0.79)	M5	4 (0.16)	25.00 (0.98)	18 (0.71)	5 (0.20)	5 (0.20)	36 (1.42)	30 (1.18)	M6
OF 32	36.0 (1.42)	6.5 (0.26)	32 (1.26)	M6	5 (0.20)	32.00 (1.26)	24 (0.94)	8 (0.31)	5 (0.20)	48 (1.89)	38 (1.50)	M6

	Finger Application							Informational Dimensions							
	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5	D6	D7	D8
OF 20	8 (0.31)	12 (0.47)	M4	8 (0.31)	4 (0.16)	17 (0.67)	3 (0.12)	32 (1.26)	38 (1.50)	75 (2.95)	54 (2.13)	M5	38 (1.50)	15°	65°
OF 25	10 (0.39)	16 (0.63)	M5	10 (0.39)	5 (0.20)	21 (0.83)	3 (0.12)	41 (1.61)	47 (1.85)	90 (3.54)	63.5 (2.50)	M5	47 (1.85)	15°	65°
OF 32	14 (0.55)	20 (0.79)	M6	14 (0.55)	6 (0.24)	27 (1.06)	3 (0.12)	49 (1.93)	59 (2.32)	110 (4.33)	75.5 (2.97)	G1/8	59 (2.32)	20°	65°

* 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



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