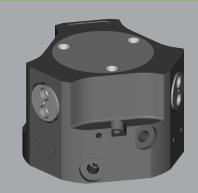
Pneumatic Parallel Grippers OPH 3-Finger

- Advantages
 Robust lightweight housing made of hard-coated aluminum alloy.
 IP67 protection provided by lip seals at round jaws offer permanent,
- secure protection.

 Compact dimensions for minimal impact in space sensitive applications.

 Mounting from two sides in three screw directions for versatile and flexible
- Integrated permanent magnets for direct monitoring of piston movement.
 Slots for mounting and positioning of magnetic-field sensors.
 Air supply via hose-free direct connections or fitting screw connections.

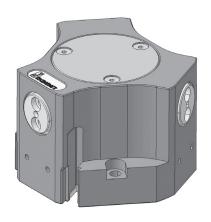


SPECIFICATIONS

Model	Stroke Per Jaw	Air Consumption Per Cycle (Dual Stroke)	Closing Opening Force Force Per Jaw Per Jaw @ 6 bar @ 6 bar		Total Closing Force @ 6 bar	Total Opening Force @ 6 bar	Recommended Workpiece Weight*	Weight	Repeatability	
OPH 83-3	6 mn	1 23.4 cm ³	203 N	213 N	203 N	213 N	3.05 kg	0.90 kg	± 0.01 mm	
OPH 83-3	0.24 in	1.43 in ³	45.6 lb	47.9 lb	45.6 lb	47.9 lb	6.72 lb	1.98 lb	± 0.0004 in	
ОРН 98-3	8 mn	52.3 cm ³	340 N	360 N	340 N	360 N	5.10 kg	1.20 kg	± 0.01 mm	
	0.31 in	3.19 in ³	76.4 lb	80.9 lb	76.4 lb	80.9 lb	11.24 lb	2.64 lb	± 0.0004 in	
OPH 118-3	10 mn	108 cm ³	565 N	590 N	565 N	590 N	8.48 kg	2.30 kg	± 0.01 mm	
OPH 116-3	0.39 in	6.59 in ³	127.0 lb	132.6 lb	127.0 lb	132.6 lb	18.70 lb	5.06 lb	± 0.0004 in	
OPH 148-3	12 mn	1 225 cm ³	983 N	1010 N	983 N	1010 N	14.75 kg	3.80 kg	± 0.01 mm	
	0.47 in	13.73 in ³	221.0 lb	227.0 lb	221.0 lb	227.0 lb	32.52 lb	8.36 lb	± 0.0004 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 2 - 8 bar (29 - 116 psi)
Working Temperature 5 - 60 °C (41 - 140 °F)
Noise Emission (Sound Pressure) ≤ 70 dB(A) in any direction

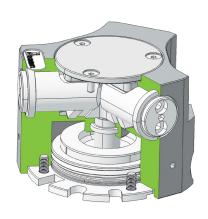
SECTIONAL DIAGRAM



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.

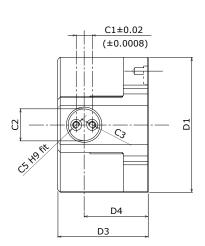


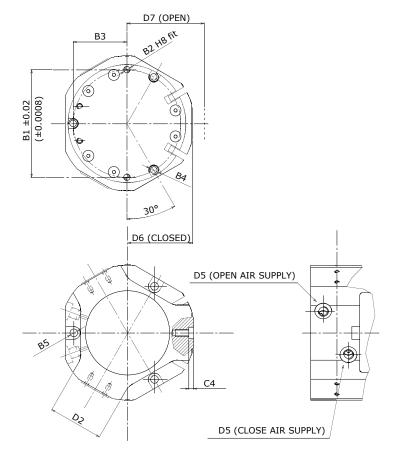


PRODUCT INFORMATION

OPH 3-Finger

Body dowel hole depth $\geq 1.5 \text{ d}$





Options

Magnetic switches

	l	Marratia	ng - Optio	- # 2		Finger Application					Informational Dimensions							
	B1	B2	ig - Optio B3	B4	В5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	D6	D7	
ОРН 83-3	63.00 (2.48)	4 (0.16)	31.5 (1.24)	M6	5.2 (0.20)	10 (0.39)	18 (0.71)	M4	3 (0.12)	6 (0.24)	83 (3.27)	40 (1.57)	57 (2.24)	40.5 (1.59)	M5	40 (1.57)	46 (1.81)	
OPH 98-3	76.00 (2.99)	6 (0.24)	38 (1.50)	M8	6.5 (0.26)	12 (0.47)	22 (0.87)	M5	3 (0.12)	8 (0.31)	98 (3.86)	40 (1.57)	66 (2.60)	47.5 (1.87)	G1/8	47.5 (1.87)	55.5 (2.19)	
OPH 118-3	94.00 (3.70)	6 (0.24)	47 (1.85)	M8	6.5 (0.26)	14 (0.55)	28 (1.10)	M6	4 (0.16)	10 (0.39)	118 (4.65)	48 (1.89)	79 (3.11)	56 (2.20)	G1/8	57.5 (2.26)	57.5 (2.26)	
OPH 148-3	122.00 (80.00)	8 (0.31)	61 (2.40)	M10	8.5 (0.33)	16 (0.63)	32 (1.26)	M8	4 (0.16)	12 (0.47)	148 (5.83)	54 (2.13)	94 (3.70)	68 (2.68)	G1/8	71 (2.80)	71 (2.80)	



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^{*} 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