

Parallel gripper HPPL-63-300-A-F1A

Part number: 8191686

FESTO



Data sheet

Feature	Value
Size	63
Complete stroke	300 mm
Stroke per gripper jaw	150 mm
Max. gripper jaw angular play ax, ay	0.2 deg
Max. gripper jaw backlash Sz	0.05 mm
Pneumatic gripper repetition accuracy	0.03 mm
Number of gripper jaws	2
Actuator system	Pneumatic
Mounting position	Any
Mode of operation	Double-acting
Cushioning	Elastic cushioning rings/pads at both ends, without fixed metal stop
Gripper function	Parallel
Gripping force backup	None
Structural design	Double piston Guide Piston gate valve T-shape Gear rack/pinion
Guide	Heavy-duty guide
Position sensing	Via proximity switch
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Min. opening time at 6 bar	1043 ms
Min. closing time at 6 bar	824 ms
Max. mass per external gripper finger	940 g
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	1 - Low corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Degree of protection	IP40
Ambient temperature	-10 °C...80 °C
Gripping force per gripper jaw at 6 bar, opening	3042 N 1521 N
Gripping force per gripper jaw at 6 bar, closing	3284 N 1643 N
Theoretical total gripping force at 0 mm, 0.6 MPa (6 bar, 87 psi) open	3238 N
Theoretical total gripping force at 0 mm, 0.6 MPa (6 bar, 87 psi) close	3480 N
Theoretical opening gripping force per Gripper jaw at 0 mm, 0.6 MPa (6 bar, 87 psi)	1619 N
Close theoretical gripping force per Gripper jaw at 0 mm, 0.6 MPa (6 bar, 87 psi)	1740 N
Mass moment of inertia	1955.33 kgcm ²
Max. force Fz	9000 N
Maximum torque on gripper jaw, Mx static	300 Nm
Maximum torque on gripper jaw, My static	200 Nm
Maximum torque on gripper jaw, Mz static	250 Nm
Product weight	15266 g
Type of mounting	With internal thread and centering sleeve Via through-hole and centering sleeve
Pneumatic connection	G1/8
Note on materials	RoHS compliant Free of copper
Cover cap material	Wrought aluminum alloy, anodized
End plate material	Wrought aluminum alloy, anodized
Housing material	Wrought aluminum alloy, anodized
Gripper jaw material	high-alloy stainless steel
Material of piston	Wrought aluminum alloy, anodized
Piston seal material	TPE-U(PU)
Piston rod material	high-alloy stainless steel
O-ring material	NBR
Material of screws	Steel, chemically nickel-plated
Gear wheel material	High-alloy steel
Gripper finger material	Wrought aluminum alloy, anodized