Parallel gripper DHPC-L-16-A-B Part number: 8116806

Data sheet

Stroke per gripper jaws 6 mm Max. replacement accuracy 0.2 mm Max, gripper jaw backlash sz, av 0 deg Max, gripper jaw backlash Sz 0 mm Rotationally symmetrical 0.2 mm Repetition accuracy, gripper 0.02 mm Number of gripper jaws 2 Drive system Pneumatic Mounting position optional Mode of operation Double-acting Gripper function Parallel Gripper force back-up None Design Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection 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 0.1 MPa08 MPa 1 bar8 bar 14.5 psi116 psi Min. opening time at 0.6 MPa (6 bar, 87 psi) 40 ms Operating medium Compressed air to ISO 8573-1:2010[7:4:4] Note on operating and pilot medium Lubricated operation possible (in which ca	Feature	Value
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Number of gripper Jaws 2 Drive system Pneumatic Mounting position optional Mode of operation Double-acting Gripper function Parallel Gripper force back-up None Design Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection 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 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi Min. opening time at 0.6 MPa (6 bar, 87 psi) 40 ms Min. colsing time at 0.6 MPa (6 bar, 87 psi) 40 ms Operating medium Compressed air to 150 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Rotationally symmetrical	0.2 mm
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Mode of operationDouble-actingGripper functionParallelGripper force back-upNoneDesignConnection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchVariantsMetals 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 pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMin. opening time at 0.6 MPa (6 bar, 87 psi)40 msOperating mediumCompressed air to ISO 8573-1:2010[7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stress	Drive system	Pneumatic
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Position detectionVia proximity switchVariantsMetals 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 pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)40 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stress	Design	Lever Standard mounting method for gripper fingers
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Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Min. opening time at 0.6 MPa (6 bar, 87 psi)	40 ms
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always be required) Corrosion resistance class CRC 0 - No corrosion stress	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
	Note on operating and pilot medium	
LABS (PWIS) conformity VDMA24364-B2-L	Corrosion resistance class CRC	0 - No corrosion stress
	LABS (PWIS) conformity	VDMA24364-B2-L



Feb 14, 2025 – Subject to change - Festo SE & Co. KG

FESTO

Feature	Value
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-10 °C60 °C
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	125.4 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	107.8 N
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	62.7 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	53.9 N
Mass moment of inertia	0.215 kgcm ²
Max. force on gripper jaw Fz static	84 N
Max. torque at gripper Mx static	0.94 Nm
Max. torque at gripper My static	0.71 Nm
Max. torque at gripper Mz static	0.71 Nm
Product weight	124 g
Type of mounting	Direct mounting via through-hole Direct mounting via thread Via through-hole and dowel pin Via female thread and dowel pin Either:
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy stainless steel