Parallel gripper DHPC-6-A-NO-S-1 Part number: 8116742

FESTO





Data sheet

Stroke per gripper jaw Max. interchangeability O.2 mm Max. gripper jaw angular play ax, ay O deg Max. gripper jaw backlash 5z O mm Rotational symmetry O.2 mm Pneumatic gripper repetition accuracy Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Single-acting Open Gripper function Gripping force backup On opening Structural design Connection direction at side Lever Side mounting type for gripper fingers Positively driven motion sequence Suide Ball guide Position sensing For proximity sensor Wariants 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 connector and coils. Deparating pressure O.35 MPaO.8 MPa 3.5 bar8 bar 5.0.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar 8 ms Min. closing time at 6 bar Gompressed air as per ISO 8573-1:2010 [7:4:44] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) O - No corrosion stress	Feature	Value
Max. interchangeability Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash Sz 0 mm Rotational symmetry 0.2 mm Pneumatic gripper repetition accuracy Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Single-acting Open Gripper function Gripper function Gripping force backup On opening Structural design Connection direction at side Lever Side mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor 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 0.35 MPa0.8 MPa 3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar Min. opening time at 6 bar Min. opening time at 6 bar 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) Corrosion resistance class (CRC) O - No corrosion stress	Size	6
Max. gripper jaw angular play ax, ay Max. gripper jaw backlash Sz O mm Rotational symmetry O.2 mm Pneumatic gripper repetition accuracy Number of gripper jaws 2 Actuator system Mounting position Any Single-acting Open Gripper function Gripping force backup On opening Structural design Connection direction at side Lever Side mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing 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. Deparating pressure 0.35 MPa0.8 MPa 3.5 bar8 ms Min. opening time at 6 bar Min. opening time at 6 bar Min. opening time at 6 bar Min. closing time at 6 bar 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) Corrosion resistance class (CRC) O - No corrosion stress	Stroke per gripper jaw	2 mm
Max. gripper jaw backlash Sz Rotational symmetry 0.2 mm Pneumatic gripper repetition accuracy 0.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Single-acting Open Sripper function Parallel Gripping force backup Connection direction at side Lever Side mounting type for gripper fingers Positively driven motion sequence Sall guide Position sensing For proximity sensor Wariants 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 0.35 MPa0.8 MPa 3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar 8 ms Min. closing time at 6 bar 6 ms 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) Corrosion resistance class (CRC) O - No corrosion stress	Max. interchangeability	0.2 mm
Rotational symmetry Pneumatic gripper repetition accuracy O.02 mm Number of gripper jaws 2 Actuator system Mounting position Mode of operation Single-acting Open Gripper function Parallel Gripping force backup Connection direction at side Lever Side mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor 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 One operating frequency of pneumatic gripper 3 Hz Min. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar Min. closing time at 6 bar 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) Corrosion resistance class (CRC) O - No corrosion stress	Max. gripper jaw angular play ax, ay	0 deg
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Connection direction at side Lever Side mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Wariants 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 0.35 MPa0.8 MPa 3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 8 ms Min. closing time at 6 bar 6 ms 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) Corrosion resistance class (CRC) O - No corrosion stress	Gripper function	Parallel
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Min. closing time at 6 bar 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) Corrosion resistance class (CRC) 0 - No corrosion stress	Max. operating frequency of pneumatic gripper	3 Hz
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) Corrosion resistance class (CRC) 0 - No corrosion stress	Min. opening time at 6 bar	8 ms
Information on operating and pilot media Operation with oil lubrication possible (required for further use) O - No corrosion stress	Min. closing time at 6 bar	6 ms
Corrosion resistance class (CRC) 0 - No corrosion stress	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)
LABS (PWIS) conformity VDMA24364-B2-L	Corrosion resistance class (CRC)	0 - No corrosion stress
	LABS (PWIS) conformity	VDMA24364-B2-L

Feature	Value
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition 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, circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-10 °C60 °C
Gripping force per gripper jaw at 6 bar, closing	7.8 N 3.9 N
Mass moment of inertia	0.012 kgcm ²
Maximum force on gripper jaw Fz, static	22 N
Maximum torque on gripper jaw, Mx static	0.24 Nm
Maximum torque on gripper jaw, My static	0.11 Nm
Maximum torque on gripper jaw, Mz static	0.11 Nm
Product weight	27 g
Type of mounting	Direct mounting via through-hole Direct fastening via thread Optionally:
Pneumatic connection	M3
Note on materials	RoHS-compliant
Housing material	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel