Parallel gripper DHPC-6-A-NO-Z-1 Part number: 8116745

FESTO





Data sheet

Stroke per gripper jaw Max. interchangeability 0.2 mm 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 Mode of operation Single-acting Open Gripper function Parallel Gripping force backup Connection via mounting spigot Lever Side mounting type for gripper fingers Positively driven motion sequence Guide 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. Deparating pressure 0.35 MPa0.8 MPa 3.5 bar8 bar 5.0.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 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] Operation resistance class (CRC) O - No corrosion stress	Feature	Value
Max. interchangeability Max. gripper jaw angular play ax, ay O deg Max. gripper jaw backlash Sz O mm Rotational symmetry O.2 mm Pneumatic gripper repetition accuracy Number of gripper jaws Actuator system Pneumatic Mounting position Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection via mounting spigot Lever Side mounting type for gripper fingers Positively driven motion sequence Guide 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 O.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 Operation 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 Mode of operation Gripper function Gripping force backup On opening Structural design Connection via mounting spigot 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. Operating pressure 0.35 MPa0.8 MPa 3.5 bar8 MPa 3.5 bar8 MPa 3.5 bar8 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 Mounting position Mode of operation Gripper function Gripper function Gripper function Parallel Gripping force backup Connection via mounting spigot Lever Side mounting type for gripper fingers Positively driven motion sequence Guide 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 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. poening time at 6 bar Min. poening 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. 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 via mounting spigot Lever Side mounting type for gripper fingers Positively driven motion sequence Guide Ball guide 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 Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper 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	Max. gripper jaw angular play ax, ay	0 deg
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Actuator system Mounting position Any Mode of operation Single-acting Open Gripper function Gripper function Gripping force backup On opening Structural design Connection via mounting spigot Lever Side mounting type for gripper fingers Positively driven motion sequence Ball guide Parallel Gripping force backup 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 Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper 3 Hz 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	Pneumatic gripper repetition accuracy	0.02 mm
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Connection via mounting spigot 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
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 Operating frequency of pneumatic gripper 3 Hz 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	Gripping force backup	On opening
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 O.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. 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) O - No corrosion stress	Structural design	Lever Side mounting type for gripper fingers
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) O - No corrosion stress	Guide	Ball guide
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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) 0 - No corrosion stress	Variants	excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors
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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	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	0.013 kgcm²
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	31 g
Type of mounting	Optionally: Direct mounting via through-hole Direct fastening via thread On mounting frame
Pneumatic connection	M5
Note on materials	RoHS-compliant
Housing material	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel