Parallel gripper DHPC-6-A-NC-S-2 Part number: 8116749

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 Closed Gripper function Parallel Gripping force backup Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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. 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) 0 - 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 direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Guide Pasilion Guide Pasilion 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 Je min. opening time at 6 bar Min. opening time at 6 bar Min. opening time at 6 bar Operation on operating and pilot media 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) Or 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 During closing Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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 bar 8b Mar 3.5 bar 8b Mar 3.5 bar 8b Mar 3.75 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) 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 Parallel Gripping force backup Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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 MPa 3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 16 ms Min. closing time at 6 bar 16 ms 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. 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 Closed Gripper function Parallel Gripping force backup During closing Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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 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
Pneumatic gripper repetition accuracy Number of gripper jaws 2 Actuator system Mounting position Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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 Max. operating frequency of pneumatic gripper Min. opening time at 6 bar Min. closing 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] 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 backlash Sz	0 mm
Number of gripper jaws Actuator system Pneumatic Mounting position Any Single-acting Closed Gripper function Gripper function Parallel Gripping force backup During closing Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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 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. 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	Rotational symmetry	0.2 mm
Actuator system Mounting position Any Mode of operation Single-acting Closed Gripper function Parallel Gripping force backup During closing Structural design Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Ball guide Pesition 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 Operating frequency of pneumatic gripper Jay 18 Min. opening time at 6 bar Min. closing time at 6 bar 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
Mounting position Mode of operation Single-acting Closed Gripper function Parallel Gripping force backup During closing Connection direction at side Flat mounting type for gripper fingers Lever 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 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	Number of gripper jaws	2
Single-acting Closed Gripper function Gripping force backup During closing Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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. Operating pressure Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 16 ms Min. closing time at 6 bar 16 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	Actuator system	Pneumatic
Closed Gripper function Parallel Gripping force backup During closing Structural design Connection direction at side Flat mounting type for gripper fingers Lever 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 Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 16 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) Or No corrosion stress	Mounting position	Any
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Connection direction at side Flat mounting type for gripper fingers Lever 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 16 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	Gripper function	Parallel
Flat mounting type for gripper fingers Lever 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 16 ms 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	During closing
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 16 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	Structural design	Flat mounting type for gripper fingers Lever
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 16 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 16 ms Min. closing time at 6 bar 16 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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Min. closing time at 6 bar 16 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	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	16 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	16 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, opening	10.4 N 5.2 N
Mass moment of inertia	0.012 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	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