Parallel gripper DHPC-10-A-NC-S-2 Part number: 8116767







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 Closed Gripper function Parallel Gripping force backup Structural design Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Suide 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 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 Min. closing time at 6 bar 12 ms Min. closing time at 6 bar Operating medium Compressed air as per ISO 8573-1:2010 [7:4:44] Operation resistance class (CRC) O • No corrosion stress | Feature | Value |
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| 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 Closed Gripper function Gripping force backup During closing Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Ball guide Position sensing Actuators 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 bar0 B MPa 3.5 bar0 | Size | 10 |
| 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 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 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. Deparating pressure 0.35 MPa0.8 MPa3. bar8 MPa3. bar8 MPa3. bar8 MPa3. bar8 MPa3. bar8 MPa3. bar8 Lew 3.5 bar8 1 mpa116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 12 ms Min. closing time at 6 bar Operation 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 Actuator system Pneumatic Mounting position Mounting position 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 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. closing time at 6 bar 12 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 Brityping force backup Cornection 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 Operating frequency of pneumatic gripper 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 | Max. gripper jaw angular play ax, ay | 0 deg |
| 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 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 Aretas 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 Operating frequency of pneumatic gripper And | Max. gripper jaw backlash Sz | 0 mm |
| Number of gripper jaws Actuator system Pneumatic Mounting position Any Mode of operation Single-acting Closed Closed Sripper function Parallel 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 Mariants 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 Operating pressure Operating frequency of pneumatic gripper 3 Hz Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 12 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 | Rotational symmetry | 0.2 mm |
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| 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. Derating pressure Operating pressure Os. 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 12 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 | Number of gripper jaws | 2 |
| 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 Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 12 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) Or 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 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 12 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) O- 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 12 ms Min. closing time at 6 bar 26 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 |
| 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 pressure Operating frequency of pneumatic gripper And and an | Gripping force backup | During closing |
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| 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 12 ms Min. closing time at 6 bar 26 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 12 ms Min. closing time at 6 bar 26 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 |
| Min. opening time at 6 bar Min. closing time at 6 bar 26 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 | Operating pressure | 3.5 bar8 bar |
| Min. closing time at 6 bar 26 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 | 12 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 | 26 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 | 39.2 N 19.6 N |
| Mass moment of inertia | 0.045 kgcm ² |
| Maximum force on gripper jaw Fz, static | 33 N |
| Maximum torque on gripper jaw, Mx static | 0.18 Nm |
| Maximum torque on gripper jaw, My static | 0.28 Nm |
| Maximum torque on gripper jaw, Mz static | 0.28 Nm |
| Product weight | 57 g |
| Type of mounting | Direct mounting via through-hole Direct fastening via thread With through-hole and dowel pin With internal thread and dowel pin Optionally: |
| Pneumatic connection | M3 |
| Note on materials | RoHS-compliant |
| Housing material | Aluminum, anodized |
| Gripper jaw material | High-alloy stainless steel |