Parallel gripper DHPC-L-10-A-S-2 Part number: 8116773







Data sheet

Stroke per gripper jaw Max. interchangeability O. 2 mm Max. gripper jaw angular play ax, ay O deg Max. gripper jaw backlash Sz O mm Rotational symmetry O. 2 mm Number of gripper repetition accuracy Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Gripper 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 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. 2 MPaO.8 MPa 2 bar 8 bar 2 9 psi116 psi Min. opening time at 6 bar University of pressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Feature	Value
Max. gripper jaw angular play ax, ay Max. gripper jaw backlash 5z O mm Rotational symmetry O.2 mm Peneumatic gripper repetition accuracy Number of gripper jaws Actuator system Mounting position Mode of operation For proximity grow a gripper function Structural design Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Suide 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 O.2 MPa0.8 MPa 2 bar0.8 mP	Size	10
Max. gripper jaw angular play ax, ay Max. gripper jaw backlash Sz O mm Octor mm Oc	Stroke per gripper jaw	4 mm
Max. gripper jaw backlash S2 Rotational symmetry	Max. interchangeability	0.2 mm
Rotational symmetry Pneumatic gripper repetition accuracy Number of gripper jaws Actuator system Pneumatic Mounting position Mode of operation Gripper function Gripper function Structural design Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Ball guide Position sensing Arriants 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 O. 2 MPa 0.8 MPa 2 bar 8 bar 29 psi 116 psi Max. operating frequency of pneumatic gripper Min. opening time at 6 bar 15 ms Deparating 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)	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 Double-acting Sripper function Parallel Gripping force backup Without 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 Oz. MPaO.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms 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)	Max. gripper jaw backlash Sz	0 mm
Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Gripper function Parallel Gripping force backup Without Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Suide Ball guide Position sensing For proximity sensor Wetals 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 Wax. operating frequency of pneumatic gripper Ja Hz Min. opening time at 6 bar J5 ms Min. closing time at 6 bar Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operation on operating and pilot media Operation with oil lubrication possible (required for further use)	Rotational symmetry	0.2 mm
Actuator system Mounting position Mode of operation Gripper function Gripping force backup Structural design 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. Deparating pressure O. 2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Deparating 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)	Pneumatic gripper repetition accuracy	0.02 mm
Mounting position Any Mode of operation Double-acting Farallel Gripper function Parallel Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence Ball guide Position sensing For proximity sensor Adriants 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. 2 MPa 0.8 MPa 2 bar 8 bar 29 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Win. opening time at 6 bar 15 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operation on operating and pilot media Operation with oil lubrication possible (required for further use)	Number of gripper jaws	2
Double-acting Gripper function Parallel Gripping force backup Without 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 O.2 MPaO.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operation with oil lubrication possible (required for further use)	Actuator system	Pneumatic
Fripping 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 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 Oz. MPaO.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operation on operating and pilot media Operation with oil lubrication possible (required for further use)	Mounting position	Any
Stripping 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 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 O.2 MPaO.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Normation on operating and pilot media Operation with oil lubrication possible (required for further use)	Mode of operation	Double-acting
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 Oz. MPa0.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar 15 ms 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)	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 O.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Win. opening time at 6 bar 15 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)	Gripping force backup	Without
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.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Win. opening time at 6 bar 15 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)	Structural design	Flat mounting type for gripper fingers Lever
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 0.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Win. opening time at 6 bar 15 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)	Guide	Ball guide
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2 bar8 bar 29 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Min. closing time at 6 bar 15 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)	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 15 ms Min. closing time at 6 bar 15 ms Deparating 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)	Operating pressure	2 bar8 bar
Min. closing time at 6 bar 15 ms Deparating 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)	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)	Min. opening time at 6 bar	15 ms
nformation on operating and pilot media Operation with oil lubrication possible (required for further use)	Min. closing time at 6 bar	15 ms
	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Corrosion resistance class (CRC) 0 - No corrosion stress	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
	Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity VDMA24364-B2-L	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	51.2 N 25.6 N
Gripping force per gripper jaw at 6 bar, closing	43 N 21.5 N
Mass moment of inertia	0.057 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	59 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