FESTO

Parallel gripper DHPC-10-A-NO-Z Part number: 8116762





Data sheet

Stroke per gripper jaw Max. interchangeability 0.2 mm 0.2 mm 0.8 max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash Sz 0 mm Rotational symmetry 0.2 mm 0.02 mm 0.02 mm Number of gripper peptition 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 Standard 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 connecto and coils. Deparating pressure 0.35 MPa0.8 MPa 3.5 bar8 bar 5.0.75 psi116 psi Min. closing time at 6 bar Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operation metical 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 Preumatic gripper repetition accuracy O.2 mm Number of gripper jaws Actuator system Mounting position Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection via mounting spigot Lever Standard mounting spigot Lever Standard 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 connecto 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 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	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 Mode of operation Gripper function Gripping force backup Structural design Connection via mounting spigot Lever Standard 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 connecto and coils. Operating pressure O.35 MPaO.8 MPa. 3.5 bar., 8 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 resistance class (CRC) O - No corrosion stress	Stroke per gripper jaw	2 mm
Max. gripper jaw backlash Sz Rotational symmetry 0.2 mm 0.02 mm Number of gripper repetition accuracy 0.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mounting position Mode of operation Gripper function Gripper function Gripper function Parallel Gripping force backup Connection via mounting spigot Lever Standard 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 connecto and coils. Operating pressure 0.3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar Querating 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 resistance class (CRC) O - No corrosion stress	Max. interchangeability	0.2 mm
Rotational symmetry Pneumatic gripper repetition accuracy 0.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mounting position Mode of operation Single-acting Open Gripper function Parallel Gripping force backup Connection via mounting spigot Lever Standard 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 connecto and coils. Operating pressure 0.35 MPa0.8 MPa 3.5 bar8 bar 50.75 psl116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar Querating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation 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 Any Mode of operation Gripper function Gripper function Gripping force backup On opening Structural design Connection via mounting spigot Lever Standard 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 connecto 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 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	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws Actuator system Pneumatic Mounting position Any Single-acting Open Gripper function Gripper function Gripping force backup On opening Structural design Connection via mounting spigot Lever Standard 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 connecto and coils. Operating pressure O.35 MPaO.8 MPa 3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar Querating 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 Open Gripper function Gripper function Gripping force backup On opening Structural design Connection via mounting spigot Lever Standard 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 connecto 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 Querating 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
Mounting position Mode of operation Single-acting Open Gripper function Parallel Gripping force backup On opening Structural design Connection via mounting spigot Lever Standard 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 connecto and coils. Operating pressure Operating pressure Osa 5 MPa0.8 MPa 3.5 bar8 bar 50.75 psi16 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar Qerating 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)	Number of gripper jaws	2
Single-acting Open Gripper function Gripper function Gripping force backup Structural design Connection via mounting spigot Lever Standard mounting type for gripper fingers Positively driven motion sequence 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 connecto and coils. Operating pressure Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 28 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) Ocrosion resistance class (CRC)	Actuator system	Pneumatic
Open Gripper function Parallel Gripping force backup On opening Structural design Connection via mounting spigot Lever Standard 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 connecto and coils. Operating pressure 3.5 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 28 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	Mounting position	Any
Gripping force backup Structural design Connection via mounting spigot Lever Standard mounting type for gripper fingers Positively driven motion sequence 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 connecto and coils. Operating pressure Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 28 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) Corrosion resistance class (CRC)	Mode of operation	
Connection via mounting spigot Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Wariants 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 connecto 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 28 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)	Gripper function	Parallel
Lever Standard 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 connecto 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 28 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	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 connecto 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 28 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	Structural design	Lever Standard 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 connecto 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 28 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	Guide	Ball guide
excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connecto 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 28 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	Position sensing	For proximity sensor
3.5 bar8 bar 50.75 psi116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 28 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 28 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	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) O - 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	28 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	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	32.8 N 16.4 N
Mass moment of inertia	0.049 kgcm²
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	66 g
Type of mounting	Optionally: Direct mounting via through-hole Direct fastening via thread On mounting frame With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection	M5
Note on materials	RoHS-compliant
Housing material	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel