## Parallel gripper DHPC-6-A-NC-Z Part number: 8116750





## **Data sheet**

Stroke per gripper jaw  Max. interchangeability  O.2 mm  Max. gripper jaw an angular play ax, ay  O deg  Max. gripper jaw backlash 5z  O mm  Rotational symmetry  O.2 mm  O.3 ingle-acting  O.3 single-acting  O.3 single-ac	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  Parallel  Gripping force backup  During closing  Connection via mounting spigot  Lever  Standard 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 connector and coils.  Operating pressure  O.35 MPa  3.5 bar 8 MPa  3.7 bar 0.35 MPa  3.5 bar 8 Dar  50.75 psi116 psi  Max. operating frequency of pneumatic gripper  3 Hz  Win. opening time at 6 bar  16 ms  Win. closing time at 6 bar  Operation 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  Octorional symmetry  O.2 mm  Onumatic gripper repetition accuracy  Number of gripper jaws  Actuator system  Mounting position  Mode of operation  Single-acting Closed  Sripper function  Parallel  During closing  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 connectors and coils.  Deparating pressure  O.35 MPa0.8 MPa3. bar8 bar 3.5 bar8 bar 50.75 psi116 psi  Max. operating frequency of pneumatic gripper  3 H2  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  Actuator system  Pneumatic  Mounting position  Mode of operation  Single-acting Closed  Sripper function  Parallel  Sripping force backup  Connection via mounting spigot Lever Standard mounting type for gripper fingers Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  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 connector and coils.  Deparating 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]  Operation resistance class (CRC)  O - No corrosion stress	Max. interchangeability	0.2 mm
Rotational symmetry  Peneumatic gripper repetition accuracy  O.02 mm  Number of gripper jaws  2  Actuator system  Pineumatic  Mounting position  Mode of operation  Single-acting Closed  Gripper function  Parallel  During closing  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 connectors and coils.  Operating pressure  Oxas MPA0.8 MPA  Max. operating frequency of pneumatic gripper  3 Hz  Min. opening time at 6 bar  16 ms  Win. opening time at 6 bar  16 ms  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 Single-acting Closed Gripper function Parallel Gripping force backup During closing 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 connectors and coils.  Max. operating pressure Operating frequency of pneumatic gripper 3 Hz Win. opening time at 6 bar Win. closing 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	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws Actuator system Pneumatic Mounting position Any Single-acting Closed Closed Sripper function Sripper function Parallel During closing Structural design Connection via mounting spigot Lever Standard mounting type for gripper fingers 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 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  Connection via 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 connectors and coils.  Operating pressure  Operating frequency of pneumatic gripper  Max. operating frequency of pneumatic gripper  J Hz  Min. opening time at 6 bar  I 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)  Or No corrosion resistance class (CRC)	Pneumatic gripper repetition accuracy	0.02 mm
Mounting position  Mode of operation  Single-acting Closed  Sripper function  Parallel  Gripping force backup  During closing  Connection via 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 connectors and coils.  Derating pressure  Operating pressure  Os 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  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	Number of gripper jaws	2
Single-acting Closed  Sripper function  Parallel  Sripping force backup  During closing  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 connectors and coils.  Derating 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  16 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)  Corrosion resistance class (CRC)  O - No corrosion stress	Actuator system	Pneumatic
Closed Gripper function Parallel Gripping force backup During closing 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 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 resistance class (CRC) O - No corrosion stress	Mounting position	Any
During closing  Connection via 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 connectors and coils.  Operating pressure  Operating frequency of pneumatic gripper  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]  Operation resistance class (CRC)  O - No corrosion stress	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 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]  Operation 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 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 connectors and coils.  Operating pressure Operating pressure One of the plate	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  Win. opening time at 6 bar  In ms  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Operation with oil lubrication possible (required for further use)  Ornosion 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 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]  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 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]  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  16 ms  Uniclosing time at 6 bar  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Corrosion resistance class (CRC)  O - 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  16 ms  Deparating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Corrosion resistance class (CRC)  O - No corrosion stress	Operating pressure	3.5 bar8 bar
Min. closing time at 6 bar  Deprating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Corrosion resistance class (CRC)  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]  nformation 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
nformation 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)
ABS (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, opening	10.4 N 5.2 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