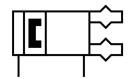
## Parallel gripper DHPC-L-10-A-B-2 Part number: 8116776







## **Data sheet**

General operating condition

Size 10 Stroke per gripper jaw 4 mm  Max. Interchangeability 0.2 mm  Max. gripper jaw angular play ax, ay 0 deg  Max. gripper jaw backlash Sz 0 mm  Rotational symmetry 50.2 mm  Pneumatic gripper repetition accuracy 50.02 mm  Number of gripper jaws 2 2 Actuator system Pneumatic  Mounting position Any Double-acting  Gripper function Parallel  Gripping force backup Without  Structural design Connection direction downwards Flat mounting type for gripper fingers (Lever Positively driven motion sequence)  Guide Ball guide  Position sensing For proximity sensor  Symbol 00991894  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 connect and coils.  Operating pressure 0.2 MPa 0.8 MPa  Operating pressure 2 psi 116 psi  Max. openating frequency of pneumatic gripper 3 Hz  Min. closing time at 6 bar 15 ms  Min. closing time at 6 bar 15 ms  Min. closing time at 6 bar 15 ms  Min. compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media Operation with oil lubrication possible (equired for further use)	Feature	Value
Max. gripper jaw angular play ax, ay  Max. gripper jaw angular play ax, ay  O deg  Max. gripper jaw backlash Sz  O mm  Rotational symmetry  so.2 mm  Pneumatic gripper repetition accuracy  Number of gripper jaws  2  Actuator system  Pneumatic  Mounting position  Mode of operation  Gripper function  Gripper function  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide  Ball guide  Position sensing  For proximity sensor  Symbol  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 connection divolutions are supplied surfaces, printed circuit boards, cables, electrical plug connection down.  Operating pressure  Operating pressure  Operating pressure  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  Min. closing time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Size	10
Max. gripper jaw angular play ax, ay  Max. gripper jaw backlash Sz  Rotational symmetry  Pneumatic gripper repetition accuracy  Number of gripper jaws  Actuator system  Pneumatic  Mounting position  Any  Mode of operation  Gripper function  Gripper function  Parallel  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Symbol  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 connect and coils.  Operating pressure  Operating pressure  Operating frequency of pneumatic gripper  Min. opening time at 6 bar  Min. closing time at 6 bar  Min. closing time at 6 bar  Compressed air as per ISO 8573-1:2010 [7:4:4]	Stroke per gripper jaw	4 mm
Max. gripper jaw backlash Sz  Rotational symmetry  \$0.2 mm  \$0.02 mm  Number of gripper jaws  2  Actuator system  Pneumatic Mounting position  Mounting position  Mode of operation  Gripper function  Parallel  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Ball guide  For proximity sensor  Symbol  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 connect and coils.  Operating pressure  Operating pressure  Operating frequency of pneumatic gripper  Max. 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]	Max. interchangeability	0.2 mm
Rotational symmetry \$0.2 mm  Pneumatic gripper repetition accuracy \$0.02 mm  Number of gripper jaws 2  Actuator system Pneumatic  Mounting position Any  Mode of operation Double-acting  Gripper function Parallel  Gripping force backup Without  Structural design Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide Ball guide  Position sensing For proximity sensor  Symbol 00991894  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 connect and coils.  Operating pressure 0.2 Mpra 0.8 MPa  Operating pressure 29 psi 116 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]	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  Gripper function  Gripper function  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide  Ball guide  Position sensing  For proximity sensor  Symbol  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 connect and coils.  Operating pressure  Operating pressure  Operating pressure  12 bar 8 bar  Operating frequency of pneumatic gripper  Max. operating frequency of pneumatic gripper  Min. closing time at 6 bar  15 ms  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Gripper function Parallel Gripping force backup Without Structural design Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence Guide Ball guide Position sensing For proximity sensor Symbol O0991894 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 connect and coils.  Operating pressure 0.2 Mar 0.8 MPa Operating pressure 29 psi 116 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]	Rotational symmetry	≤0.2 mm
Actuator system  Mounting position  Any  Mode of operation  Gripper function  Gripper function  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide  Ball guide  Position sensing  For proximity sensor  Symbol  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 connect and coils.  Operating pressure  Oze MPa 0.8 MPa  Operating pressure  2 bar 8 bar  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]	Pneumatic gripper repetition accuracy	≤0.02 mm
Mounting position  Mode of operation  Gripper function  Gripper function  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide  Ball guide  Position sensing  For proximity sensor  Symbol  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 connect and coils.  Operating pressure  Oz MPa 0.8 MPa  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 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]	Number of gripper jaws	2
Mode of operation Gripper function Gripper function Gripping force backup Without Structural design Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence Ball guide Position sensing For proximity sensor Symbol O0991894 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 connect and coils. Operating pressure Operating pressure Operating pressure 2 bar 8 bar Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar Min. closing time at 6 bar Compressed air as per ISO 8573-1:2010 [7:4:4]	Actuator system	Pneumatic
Gripper function  Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Symbol  O0991894  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 connect and coils.  Operating pressure  Operating pressure  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 psi  Max. operating frequency of pneumatic gripper  3 Hz  Min. opening time at 6 bar  15 ms  Min. closing time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Mounting position	Any
Gripping force backup  Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide  Ball guide  Position sensing  For proximity sensor  Symbol  O0991894  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 connect and coils.  Operating pressure  Operating pressure  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 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]	Mode of operation	Double-acting
Structural design  Connection direction downwards Flat mounting type for gripper fingers Lever Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Symbol  O0991894  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 connect and coils.  Operating pressure  O2 MPa 0.8 MPa  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 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]	Gripper function	Parallel
Flat mounting type for gripper fingers Lever Positively driven motion sequence  Guide Ball guide Position sensing For proximity sensor  Symbol O0991894  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 connect and coils.  Operating pressure Operating pressure Operating pressure 2 bar 8 bar Operating pressure 29 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Min. closing time at 6 bar Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Gripping force backup	Without
Position sensing  For proximity sensor  Symbol  O0991894  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 connect and coils.  Operating pressure  Operating pressure  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 psi  Max. operating frequency of pneumatic gripper  3 Hz  Min. opening time at 6 bar  15 ms  Min. closing time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Structural design	Flat mounting type for gripper fingers Lever
Symbol  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 connect and coils.  Operating pressure  Operating pressure  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 psi  Max. operating frequency of pneumatic gripper  3 Hz  Min. opening time at 6 bar  15 ms  Min. closing time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Guide	Ball guide
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 connect and coils.  Operating pressure  Operating pressure  Operating pressure  Operating pressure  29 psi 116 psi  Max. operating frequency of pneumatic gripper  3 Hz  Min. opening time at 6 bar  15 ms  Min. closing time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Position sensing	For proximity sensor
excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connect and coils.  Operating pressure  Operating pressure  2 bar 8 bar  Operating pressure  29 psi 116 psi  Max. operating frequency of pneumatic gripper  3 Hz  Min. opening time at 6 bar  15 ms  Min. closing time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991894
Operating pressure 2 bar 8 bar  Operating pressure 29 psi 116 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]	Variants	excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors
Operating pressure 29 psi 116 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]	Operating pressure	0.2 MPa 0.8 MPa
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]	Operating pressure	2 bar 8 bar
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]	Operating pressure	29 psi 116 psi
Min. closing time at 6 bar 15 ms  Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. operating frequency of pneumatic gripper	3 Hz
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Min. opening time at 6 bar	15 ms
	Min. closing time at 6 bar	15 ms
Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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	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	Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-10 °C 60 °C
Gripping force per gripper jaw at 6 bar, opening	51.2 N
Gripping force per gripper jaw at 6 bar, closing	43 N
Gripping force per gripper jaw at 6 bar, opening	25.6 N
Gripping force per gripper jaw at 6 bar, closing	21.5 N
Mass moment of inertia	0.057 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	29 N
Maximum torque on gripper jaw, Mx static	0.13 Nm
Maximum torque on gripper jaw, My static	0.27 Nm
Maximum torque on gripper jaw, Mz static	0.13 Nm
Product weight	59 g
Type of mounting	Optionally: Direct mounting via through-hole Direct fastening via thread With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection	M3
Note on materials	RoHS-compliant
Housing material	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel