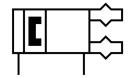
Parallel gripper DHPC-L-10-A-B Part number: 8116774

FESTO





Data sheet

General operating condition

Stroke per gripper jaw Max. interchangeability 0.2 mm Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash 5z 0 mm Rotational symmetry 80.2 mm 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 Lever Standard mounting type for gripper fingers Positively driven motion sequence Guide Ball guide Position sensing For proximity sensor Symbol Oo991894 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 requency of pneumatic gripper 3 Hz Min. opening time at 6 bar Min. closing time at 6 bar Gompressed air as per ISO 8573-1:2010 [7:4:4]	Feature	Value
Max. interchangeability Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash 5z 0 mm Rotational symmetry 20.2 mm Number of gripper jaws 2 Pneumatic Mounting position Any Mode of operation Gripper function Gripper function Gripper function Gripper force backup Structural design Connection direction downwards Lever Standard mounting type for gripper fingers Positively driven motion sequence Guide Ball guide Postion sensing For proximity sensor Symbol Oo991894 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 psi 116 psi 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Size	10
Max. gripper jaw angular play ax, ay Max. gripper jaw backlash Sz O mm Rotational symmetry Pneumatic gripper repetition accuracy Number of gripper jaws Actuator system Pneumatic Mounting position Any Mode of operation Gripper function Gripper function Structural design Connection direction downwards Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Symbol Oo991894 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 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Stroke per gripper jaw	4 mm
Max. gripper jaw backlash Sz Rotational symmetry Rotational Symmet	Max. interchangeability	0.2 mm
Rotational symmetry so.2 mm Pneumatic gripper repetition accuracy so.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Gripper function Parallel Gripping force backup Without Structural design Connection direction downwards Lever Standard mounting type for gripper fingers Positively driven motion sequence Guide Ball guide Position sensing For proximity sensor Symbol 09991894 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. 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] 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 Actuator system Pneumatic Mounting position Any Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connecte and coils. Operating pressure Operating pressure Operating pressure 29 psi 116 psi Max. operating frequency of pneumatic gripper 31 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)	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Gripper function Gripper function Gripping force backup Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connected and coils. Operating pressure Operating pressure Operating pressure Operating frequency of pneumatic gripper 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)	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 Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Symbol Variants 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 connecte and coils. Operating pressure Operating pressure Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper Max. operating 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)	Pneumatic gripper repetition accuracy	≤0.02 mm
Mounting position Mode of operation Double-acting Gripper function Parallel Gripping force backup Without Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connecte and coils. Operating pressure Operating pressure Operating pressure Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 15 ms Operation with oil lubrication possible (required for further use)	Number of gripper jaws	2
Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connecte and coils. Operating pressure Operating pressure Operating pressure Operating frequency of pneumatic gripper Max. operating frequency of pneumatic gripper Min. opening time at 6 bar 15 ms Operation with oil lubrication possible (required for further use)	Actuator system	Pneumatic
Gripper function Parallel Gripping force backup Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connected and coils. Operating pressure Operating pressure 2 bar 8 bar Operating pressure 22 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Mounting position	Any
Gripping force backup Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connected 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Mode of operation	Double-acting
Structural design Connection direction downwards Lever Standard mounting type for gripper fingers 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 connected and coils. 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 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)	Gripper function	Parallel
Lever Standard mounting type for gripper fingers 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 connected and coils. Operating pressure 0.2 MPa 0.8 MPa Operating pressure 2 bar 8 bar Operating pressure 2.9 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Gripping force backup	Without
Position sensing For proximity sensor 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 connected 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Structural design	Lever Standard mounting type for gripper fingers
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 connected 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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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 connected 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 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)	Position sensing	For proximity sensor
excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils. Operating pressure Operating pressure Operating pressure 29 psi 116 psi Max. operating frequency of pneumatic gripper 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] Information on operating and pilot media excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.	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] 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
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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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] Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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] 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
Information 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	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 ²
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