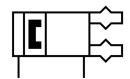
Parallel gripper DHPC-L-25-A-S Part number: 8116867

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 Sz Rotational symmetry Pneumatic gripper repetition accuracy Number of gripper jaws 2 Actuator system Pneumatic Mounting position Mouthing position Mode of operation Gripper function Gripper function Gripper function Barallel Gripping force backup Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Guide Ball guide Position sensing For proximity sensor Symbol Operating pressure Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 4.5 psi 116 psi Max. 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	Feature	Value
Max. Interchangeability Max. gripper jaw angular play ax, ay 0 deg 0 mm Rotational symmetry Pneumatic gripper repetition accuracy Number of gripper jaws 2 Actuator system Mounting position Mode of operation Gripper function Gripper function Gripper force backup Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Operating pressure Operating pressure Operating pressure Operating pressure Min. opening time at 6 bar Min. closing time at 6 bar Operation time in the side operation of the side of the sid	Size	25
Max. gripper jaw angular play ax, ay Max. gripper jaw backlash Sz O mm Rotational symmetry so.2 mm Number of gripper jaws Actuator system Pneumatic Mounting position Mode of operation Gripper function Gripper function Gripper function Structural design Connection direction at side Lever Standard mounting type for gripper fingers 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 surface, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper Min. closing time at 6 bar Min. closing time at 6 bar 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	11 mm
Max. gripper jaw backlash Sz Rotational symmetry	Max. interchangeability	0.2 mm
Rotational symmetry	Max. gripper jaw angular play ax, ay	0 deg
Pneumatic gripper repetition accuracy Number of gripper jaws Actuator system Mounting position Any Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction at side Lever Standard mounting type for gripper fingers 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 connectors and coils. Operating pressure Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper Min. opening time at 6 bar Min. closing time at 6 bar Min. closing time at 6 bar Operation 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 backlash Sz	0 mm
Number of gripper jaws Actuator system Pneumatic Any Mode of operation Bouble-acting Gripper function Parallel Gripping force backup Structural design Connection direction at side Lever Standard mounting type for gripper fingers 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 connectors and coils. Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 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	Rotational symmetry	≤0.2 mm
Actuator system Mounting position Any Double-acting Gripper function Gripper function Gripper function Gripper function Gripper function Gripping force backup Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Postion 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 connectors and coils. Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 4.5 psi 116 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) Ornosion resistance class (CRC) O · No corrosion stress	Pneumatic gripper repetition accuracy	≤0.02 mm
Mounting position Any Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction at side 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 connectors and coils. Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 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	Number of gripper jaws	2
Mode of operation Gripper function Gripper function Gripping force backup Without Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Symbol Oo991894 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 connectors and coils. Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 93 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)	Actuator system	Pneumatic
Gripper function Parallel Gripping force backup Structural design Connection direction at side 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 connectors and coils. Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 the p	Mounting position	Any
Gripping force backup Structural design Connection direction at side 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 connectors and coils. Operating pressure O.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 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) Corrosion resistance class (CRC) O - No corrosion stress	Mode of operation	Double-acting
Connection direction at side 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 connectors and coils. Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 4.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 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	Gripper function	Parallel
Lever Standard mounting type for gripper fingers Positively driven motion sequence Guide Ball guide Position sensing For proximity sensor 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 connectors and coils. Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 ms Min. closing time at 6 bar 93 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	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 connectors and coils. Operating pressure O.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 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) 0 - No corrosion stress	Structural design	Lever Standard mounting type for gripper fingers
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Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 ms Min. closing time at 6 bar 93 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
Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 ms Min. closing time at 6 bar 93 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	0.1 MPa 0.8 MPa
Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 162 ms Min. closing time at 6 bar 93 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	1 bar 8 bar
Min. opening time at 6 bar Min. closing time at 6 bar 93 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	14.5 psi 116 psi
Min. closing time at 6 bar 93 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	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	162 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	93 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 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	305.3 N
Gripping force per gripper jaw at 6 bar, closing	255.6 N
Gripping force per gripper jaw at 6 bar, opening	152.6 N
Gripping force per gripper jaw at 6 bar, closing	127.8 N
Mass moment of inertia	2.14 kgcm ²
Maximum force on gripper jaw Fz, static	127.5 N
Maximum torque on gripper jaw, Mx static	0.97 Nm
Maximum torque on gripper jaw, My static	1.94 Nm
Maximum torque on gripper jaw, Mz static	0.97 Nm
Product weight	484 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