Parallel gripper DHPC-L-20-A-B-1 Part number: 8116839







Data sheet

General operating condition

Size 20 Stroke per gripper jaw 9 mm Max. Interchangeability 0.2 mm Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash Sz 0 mm Rotational symmetry 80.2 mm Pneumatic gripper repetition accuracy 80.02 mm Number of gripper jaws 2 2 Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Gripper function Parallel Gripping force backup Without Structural design Connection direction downwards Lever Side 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 connect and coils. Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1.4.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 75 ms Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Feature	Value
Max. gripper jaw angular play ax, ay Max. gripper jaw backlash Sz O mm Rotational symmetry So.2 mm Number of gripper jaws Pneumatic gripper repetition accuracy Number of gripper jaws Pneumatic Mounting position Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction downwards Lever Side 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 connection ado colls. Operating pressure Operating pressure Operating pressure 1.45. psi 116 psi Max. operating frequency of pneumatic gripper Mix. operating frequency of pneumatic gripper Mix. operating firequency of pneumatic gripper Mix. operating time at 6 bar Mix. closing time at 6 bar Compressed air as per ISO 8573-1:2010 [7:4:4]	Size	20
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 operatino Gripper function Gripper function Parallel Gripping force backup Structural design Connection direction downwards Lever Side 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 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. 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	9 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 Gripper function Parallel Gripping force backup Structural design Connection direction downwards Lever Side 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 connect 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 To my 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 Lever Side 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 connect and coils. Operating pressure 0.1 MPa 0.8 MPa Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 110 ms Min. closing time at 6 bar 75 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 Lever Side 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 connect and coils. Operating pressure Operating pressure 1 bar 8 bar Operating pressure Max. operating frequency of pneumatic gripper 3 Hz Min. closing time at 6 bar 75 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. gripper jaw backlash Sz	0 mm
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Actuator system Mounting position Any Mode of operation Gripper function Gripper function Gripping force backup Structural design Connection direction downwards Lever Side 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 connect and coils. Operating pressure O1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar 110 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
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Mode of operation Gripper function Gripper function Gripping force backup Without Structural design Connection direction downwards Lever Side 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 connect and coils. Operating pressure O1. MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper 3 Hz Min. opening time at 6 bar Min. closing time at 6 bar To ms Compressed air as per ISO 8573-1:2010 [7:4:4]	Actuator system	Pneumatic
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Structural design Connection direction downwards Lever Side 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 connect and coils. Operating pressure O1 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 110 ms Min. closing time at 6 bar Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Gripper function	Parallel
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Min. closing time at 6 bar 75 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	110 ms
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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	192.6 N
Gripping force per gripper jaw at 6 bar, closing	159.5 N
Gripping force per gripper jaw at 6 bar, opening	96.3 N
Gripping force per gripper jaw at 6 bar, closing	79.8 N
Mass moment of inertia	0.515 kgcm ²
Maximum force on gripper jaw Fz, static	73.5 N
Maximum torque on gripper jaw, Mx static	0.66 Nm
Maximum torque on gripper jaw, My static	1.33 Nm
Maximum torque on gripper jaw, Mz static	0.66 Nm
Product weight	261 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