## Parallel gripper DHPC-32-A-B-1 Part number: 8116885







## **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  Omm  Poeumatic gripper per titlor accuracy  Number of gripper jaws  2 cutational symmetry  Poeumatic gripper per jaws  Any  Mounting position  Any  Modunting position  Any  Modunting position  Double-acting  Bripper function  Parallel  Gripping force backup  Without  Connection direction downwards  Lever Side mounting type for gripper fingers  Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Symbol  Oo991894  Arainats  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  Operating pressure  1 bar 8 bar  Operating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  10 mm  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  O - No corrosion stress	Feature	Value
Max. Interchangeability  Max. gripper jaw angular play ax, ay  O deg  O mm  Sotational symmetry  Preumatic gripper repetition accuracy  South and system  Poundatic  Any  Mouting position  Mouting position  Double-acting  Forition  Parallel  Structural design  Connection direction downwards  Lever Side mounting type for gripper fingers  Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Operating pressure  One parallel  Operating pressure  One parallel  One of the selection of the selec	Size	32
Max. gripper jaw angular play ax, ay  Max. gripper jaw backlash Sz  O mm  Solational symmetry  Mithout  Sorripper fargers  For proximity symmetry  Solational symmetry  Solation sersing  For proximity sensor  Solation sensing  For proximity sensor  Solation sensing  For proximity sensor  Solation 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  On 1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  1 the sill symmetry  1 the sill symmetry  Min. opening time at 6 bar  107 ms  Operation with oil lubrication possible (required for further use)  Cornosion resistance class (CRC)  O - No corrosion stress	Stroke per gripper jaw	11 mm
Max. gripper jaw backlash S2 Rotational symmetry Rotational Symmet	Max. interchangeability	0.2 mm
Rotational symmetry so.2 mm  Peneumatic gripper repetition accuracy so.02 mm  Number of gripper jaws 2  Actuator system Pneumatic Mounting position Any Mode of operation Double-acting  Sripper function Parallel  Gripping force backup Without  Structural design Connection direction downwards Lever Side mounting type for gripper fingers Positively driven motion sequence  Ball guide Ball guide Position sensing For proximity sensor  Symbol O0991894  Araiants 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 0.1 MPa 0.8 MPa  Deparating pressure 1 bar 8 bar  Operating frequency of pneumatic gripper 1 Hz  Win. opening time at 6 bar 114 ms  Win. closing time at 6 bar 107 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	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  Sripper function  Parallel  Structural design  Connection direction downwards Lever Side mounting type for gripper fingers Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Symbol  Advatals 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  On 1 MPa 0.8 MPa  Deparating pressure  1 bar 8 bar  Deparating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  107 ms  Deparation 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
Autuator system Pneumatic Mounting position Any Mode of operation Double-acting Farallel Gripper function Farallel 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 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 connector and coils.  Operating pressure Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper 1 Hz Min. opening time at 6 bar Min. opening 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 Mode of operation Double-acting Sripper function Parallel Structural design Connection direction downwards Lever Side mounting type for gripper fingers Positively driven motion sequence Ball guide 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 connector and coils.  Operating pressure O1. MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 1 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	Pneumatic gripper repetition accuracy	≤0.02 mm
Mounting position  Mode of operation  Double-acting  Parallel  Gripper function  Parallel  Connection direction downwards Lever Side mounting type for gripper fingers Positively driven motion sequence  Ball guide  Position sensing  For proximity sensor  Operating pressure  Operating pressure  Departing pressure  Departing pressure  Max. operating frequency of pneumatic gripper  Max. operating frequency of pneumatic gripper  Min. closing time at 6 bar  Departing medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Operation resistance class (CRC)  Any  Without  Connection  Double-acting Parallel  Without  Connection direction downwards  Lever Side mounting type for gripper fingers Positively driven motion sequence  Side mounting type for gripper fingers  Position sequence  Side mounting type for gripper fingers  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.  On 1 MPa 0.8 MPa  Departing pressure  1 bar 8 bar  Departing frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Operation with oil lubrication possible (required for further use)	Number of gripper jaws	2
Mode of operation  Double-acting  Parallel  Gripper function  Parallel  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 connector 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  1 Hz  Min. opening time at 6 bar  107 ms  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Operation resistance class (CRC)  O - No corrosion stress	Actuator system	Pneumatic
Stripper function Parallel Without  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 connector and coils.  Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating frequency of pneumatic gripper 1 Hz  Min. opening time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operation resistance class (CRC) O - No corrosion stress	Mounting position	Any
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  //ariants  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.1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Max. operating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  114 ms  Min. closing time at 6 bar  107 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)  O - No corrosion stress	Mode of operation	Double-acting
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 connector and coils.  Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 thz  Min. opening time at 6 bar 114 ms Min. closing time at 6 bar 107 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 Side mounting type for gripper fingers Positively driven motion sequence  Ball guide  Position sensing For proximity sensor  Symbol O0991894  /ariants 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 Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 1 Hz Min. opening time at 6 bar 114 ms Min. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation series are series of gripper fingers Operation series are series of gripper fingers Sall guide  Each of the motion sequence Sall guide  For proximity gensor  Operating pressure  1.14 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) O- No corrosion stress	Gripping force backup	Without
Position sensing  For proximity sensor  O0991894  Adriants  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.1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Max. operating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  114 ms  Min. closing time at 6 bar  107 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)  O - No corrosion stress	Structural design	Lever Side mounting type for gripper fingers
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  Operating pressure  Operating pressure  1 bar 8 bar  Operating pressure  14.5 psi 116 psi  Max. operating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  114 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)  O - No corrosion stress	Guide	Ball guide
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excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connector and coils.  Operating pressure  On MPa 0.8 MPa  Departing pressure  1 bar 8 bar  Departing pressure  14.5 psi 116 psi  Max. operating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  114 ms  Departing 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)  O - No corrosion stress	Symbol	00991894
Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. operating frequency of pneumatic gripper 1 Hz Min. opening time at 6 bar 114 ms Min. closing time at 6 bar 107 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  1 Hz  Min. opening time at 6 bar  114 ms  Min. closing time at 6 bar  107 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)  Operation resistance class (CRC)  O - No corrosion stress	Operating pressure	0.1 MPa 0.8 MPa
Max. operating frequency of pneumatic gripper  1 Hz  Min. opening time at 6 bar  114 ms  Min. closing time at 6 bar  107 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	Operating pressure	1 bar 8 bar
Min. opening time at 6 bar  114 ms  Min. closing time at 6 bar  107 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	14.5 psi 116 psi
Min. closing time at 6 bar  107 ms  Deprating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Depration with oil lubrication possible (required for further use)  O - No corrosion stress	Max. operating frequency of pneumatic gripper	1 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	114 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	107 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 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	493.7 N
Gripping force per gripper jaw at 6 bar, closing	442.6 N
Gripping force per gripper jaw at 6 bar, opening	246.9 N
Gripping force per gripper jaw at 6 bar, closing	221.3 N
Mass moment of inertia	5.55 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	171.5 N
Maximum torque on gripper jaw, Mx static	1.5 Nm
Maximum torque on gripper jaw, My static	3 Nm
Maximum torque on gripper jaw, Mz static	1.5 Nm
Product weight	779 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