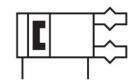
Parallel gripper DHPC-6-A-S Part number: 8116735







General operating condition

Data sheet

Stroke per gripper jaws 2 mm Max. replacement accuracy 0.2 mm Max. angular gripper jaw backlash ax, ay 0 deg Max. angular gripper jaw backlash sz 0 mm Repetition accuracy, gripper 20.2 mm Number of gripper jaws 2 prive system Number of gripper jaws 2 prive system Mounting position Mounting position Mouthing position Parallel Gripper function Gripper force back-up None Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Ball guide Position detection Via proximity switch Symbol Oo991894 Wariants 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 1.5 bar 8 bar Operating prequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Note on operating and pilot medium Lubricated operation steess O - No corrosion stress	Feature	Value
Max. replacement accuracy Max. angular gripper jaw backlash ax, ay Odeg Max. gripper jaw backlash 52 Omm Repetition accuracy, gripper So.02 mm Number of gripper jaws Pneumatic Mounting position Mounting position Mounting position Double-acting Gripper function Gripper function Parallel Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch 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 connector and coils. Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Diperating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Size	6
Max. angular gripper jaw backlash ax, ay Max. gripper jaw backlash Sz Omm Rotationally symmetrical Repetition accuracy, gripper So.02 mm Number of gripper jaws 2 Drive system Pneumatic Mounting position Mode of operation Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Symbol O0991894 Wariants 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. Deperating pressure Operating pressure Operating frequency of gripper Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Diver on the standard operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Stroke per gripper jaws	2 mm
Max. gripper jaw backlash Sz Rotationally symmetrical \$0.2 mm \$0.02 mm Number of gripper jaws 2 Pneumatic Mounting position Mode of operation Bripper function Gripper function Broisin Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Ball guide Position detection Via proximity switch 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 connector and coils. Deperating pressure 0.15 MPa 0.8 MPa Operating pressure 1.5 bar 8 bar Operating frequency of gripper Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Max. replacement accuracy	0.2 mm
Rotationally symmetrical so.2 mm Repetition accuracy, gripper Roumber of gripper jaws 2 Pneumatic Mounting position Mounting position Double-acting Gripper function Gripper function Gripper function Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch 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 connector and coils. Operating pressure Operating pressure 1.5 bar 8 bar Operating frequency of gripper Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compression resistance class CRC O - No corrosion stress	Max. angular gripper jaw backlash ax, ay	0 deg
Repetition accuracy, gripper Number of gripper jaws Drive system Mounting position Mode of operation Gripper function Double-acting Gripper function Parallel Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch 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 connector and coils. Operating pressure Operating pressure 1.5 bar 8 bar Operating frequency of gripper Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Deparating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws Drive system Pneumatic Optional Mounting position Optional Double-acting Gripper function Gripper function Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch Symbol Operating 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 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Rotationally symmetrical	≤0.2 mm
Preumatic Optive system Mounting position Optional Double-acting Gripper function Parallel Gripper force back-up Opensign Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Symbol Opensiting pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating frequency of gripper Max. operating frequency of gripper Min. closing time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Note on operating and pilot medium Corrosion resistance class CRC Opensiting stress Operating pressure Operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC Opensiting stress Operating and pilot medium Operating medium Corrosion resistance class CRC Opensity Stress Opensity S	Repetition accuracy, gripper	≤0.02 mm
Mounting position Mode of operation Gripper function Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Symbol Via proximity switch 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 Operating pressure 1.5 bar 8 bar Operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Number of gripper jaws	2
Mode of operation Gripper function Parallel Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch 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 1.5 bar 8 bar Operating frequency of gripper 1.5 bar 8 bar Operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Drive system	Pneumatic
Gripper function Gripper force back-up Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch 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 connector and coils. Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating frequency of gripper Max. operating frequency of gripper Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Mounting position	optional
Design Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch 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 connector and coils. Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) Pms Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O-No corrosion stress	Mode of operation	Double-acting
Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch 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 O15 MPa 0.8 MPa Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC	Gripper function	Parallel
Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch 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 connectors and coils. Operating pressure 0.15 MPa 0.8 MPa Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Gripper force back-up	None
Position detection Via proximity switch 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 O1.5 MPa 0.8 MPa Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Design	Lever Standard mounting method 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 connectors and coils. Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Guide	Ball guide
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 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Position detection	Via proximity switch
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 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Symbol	00991894
Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) 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 21.75 psi 116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 9 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Operating pressure	0.15 MPa 0.8 MPa
Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress	Operating pressure	1.5 bar 8 bar
Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Operating pressure	21.75 psi 116 psi
Min. closing time at 0.6 MPa (6 bar, 87 psi) 11 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Max. operating frequency of gripper	3 Hz
Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Min. opening time at 0.6 MPa (6 bar, 87 psi)	9 ms
Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress	Min. closing time at 0.6 MPa (6 bar, 87 psi)	11 ms
always be required) Corrosion resistance class CRC 0 - No corrosion stress	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
	Note on operating and pilot medium	
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 are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-10 °C 60 °C
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	14.6 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	11 N
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	7.3 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	5.5 N
Mass moment of inertia	0.011 kgcm²
Max. force on gripper jaw Fz static	22 N
Max. torque at gripper Mx static	0.24 Nm
Max. torque at gripper My static	0.11 Nm
Max. torque at gripper Mz static	0.11 Nm
Product weight	25 g
Type of mounting	Direct mounting via through-hole Direct mounting via thread Either:
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy stainless steel