Parallel gripper DHPC-16-A-NC-S Part number: 8116797







Data sheet

Stroke per gripper jaws Max. replacement accuracy Max. angular gripper jaw backlash ax, ay O deg Oz mm Oz mm Oz mm Oz mm Oz otationally symmetrical Oz mm	Feature	Value
Max. replacement accuracy Max. angular gripper jaw backlash ax, ay O deg Max. gripper jaw backlash Sz O mm O.2 mm Repetition accuracy, gripper O.02 mm Repetition accuracy, gripper O.02 mm Repetition accuracy, gripper O.02 mm Repetition accuracy, gripper O.03 mm Repetition accuracy, gripper O.04 mm Repetition accuracy, gripper O.05 mm Repetition accuracy, gripper O.06 mm Repetition accuracy, gripper O.07 mm Repetition accuracy, gripper O.08 mm Repetition accuracy, gripper O.09 mm Repetition accuracy, gripper O.09 mm Preumatic Optional Single-acting Closed Closed Parallel During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Suide Ball guide Position detection Via proximity switch Ootal gripping force, opening, 0.6MPa (6bar, 87 psi) O.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Alin. Opening 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)	Size	16
Max. angular gripper jaw backlash ax, ay Max. gripper jaw backlash Sz O mm Rotationally symmetrical O.2 mm Penumatic Rotational Rotatio	Stroke per gripper jaws	3 mm
Adax, gripper jaw backlash Sz Rotationally symmetrical Repetition accuracy, gripper Rotational Stripper jaws Preumatic Poptional Rotational Single-acting Closed Single-acting Closed Single-acting Closed Farallel Parallel Parallel Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Suide Ball guide Position detection Via proximity switch Fotal gripping force, opening, 0.6MPa (6bar, 87 psi) Poperating pressure O.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Adax. 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) Poperating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required)	Max. replacement accuracy	0.2 mm
Rotationally symmetrical Repetition accuracy, gripper Repetition accuracy, gripper 0.02 mm Repetition 2	Max. angular gripper jaw backlash ax, ay	0 deg
Repetition accuracy, gripper Rumber of gripper jaws 2 Pneumatic Mounting position Audie of operation Single-acting Closed Gripper function Parallel During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Operating pressure Operating pressure Operating pressure Aux. operating frequency of gripper Min. opening 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)	Max. gripper jaw backlash Sz	0 mm
Aumber of gripper jaws Prive system Pneumatic Mounting position Optional Single-acting Closed Sripper function Parallel Sripper force back-up During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure Aux. operating frequency of gripper Jahz	Rotationally symmetrical	0.2 mm
Preumatic Mounting position optional Mode of operation Single-acting Closed Gripper function Parallel Gripper force back-up During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure Josephane08 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper Jin. opening time at 0.6 MPa (6 bar, 87 psi) John John 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)	Repetition accuracy, gripper	0.02 mm
Mode of operation optional Mode of operation Single-acting Closed Gripper function Parallel Gripper force back-up During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Gotal gripping force, opening, 0.6MPa (6bar, 87 psi) 101 N Operating pressure 0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 30 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 65 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)	Number of gripper jaws	2
Mode of operation Single-acting Closed Gripper function Parallel During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure 0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper Min. opening 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)	Drive system	Pneumatic
Closed Gripper function Parallel Gripper force back-up During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Gotal gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure Objecting pressure Objecting frequency of gripper Alax. operating frequency of gripper Alax. operating frequency of gripper Alax. opening time at 0.6 MPa (6 bar, 87 psi) Objecting medium Compressed air to ISO 8573-1:2010 [7:4:4] Under on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)	Mounting position	optional
During closing Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Departing pressure Oues MPa 2.5 bar0.8 MPa 2.5 bar8 bar 36.25 psi116 psi 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) Departing 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)	Mode of operation	
Connection direction at side Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure O.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) Operating time at 0.6 MPa (6 bar, 87 psi) Deparating 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)	Gripper function	Parallel
Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure 0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 30 ms 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)	Gripper force back-up	During closing
Position detection Via proximity switch Total gripping force, opening, 0.6MPa (6bar, 87 psi) Deparating pressure 0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 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) Deparating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required)	Design	Lever Standard mounting method for gripper fingers
Total gripping force, opening, 0.6MPa (6bar, 87 psi) 101 N 102 perating pressure 103 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi 3 Hz Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 30 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 65 ms Deperating medium Compressed air to ISO 8573-1:2010 [7:4:4] Rote on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)	Guide	Ball guide
Operating pressure O.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi 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] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)	Position detection	Via proximity switch
2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 30 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 65 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Rote on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)	Total gripping force, opening, 0.6MPa (6bar, 87 psi)	101 N
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)	Operating pressure	2.5 bar8 bar
Min. closing time at 0.6 MPa (6 bar, 87 psi) 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)	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)	Min. opening time at 0.6 MPa (6 bar, 87 psi)	30 ms
Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)	Min. closing time at 0.6 MPa (6 bar, 87 psi)	65 ms
always be required)	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Corrosion resistance class CRC 0 - No corrosion stress	Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
0 110 0011051011050	Corrosion resistance class CRC	0 - No corrosion stress
ABS (PWIS) conformity VDMA24364-B2-L	LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature -10 °C60 °C	Ambient temperature	-10 °C60 °C

Feature	Value
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	50.5 N
Mass moment of inertia	0.146 kgcm²
Max. force on gripper jaw Fz static	49 N
Max. torque at gripper Mx static	0.34 Nm
Max. torque at gripper My static	0.68 Nm
Max. torque at gripper Mz static	0.34 Nm
Product weight	111 g
Type of mounting	Either: Direct mounting via through-hole Direct mounting via thread Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy stainless steel