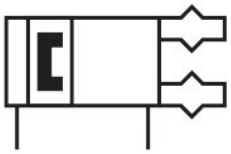
Parallel gripper
DHPL-32-160-P-A

Part number: 8112224



General operating condition

Data sheet

Feature	Value
Size	32
Total stroke	160 mm
Stroke per gripper jaws	80 mm
Max. replacement accuracy	≤0.2 mm
Max. angular gripper jaw backlash ax, ay	≤0.12 deg
Max. gripper jaw backlash Sz	≤0.066 mm
Rotationally symmetrical	≤0.2 mm
Repetition accuracy, gripper	≤0.03 mm
Number of gripper jaws	2
Mounting position	Any
Mode of operation	Double-acting
Cushioning	Elastic cushioning rings/plates at both ends
Gripper function	Parallel
Design	Rack and pinion
Guide	Plain-bearing guide
Position detection	Via proximity switch
Symbol	00991894
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	≤0.6 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	272 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	473 ms
Max. mass per external gripper finger	498 g
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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Degree of protection	IP54
Ambient temperature	-10 °C ... 60 °C
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	800 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	600 N
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	400 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	300 N

Feature	Value
Mass moment of inertia	315.8 kgcm² ... 727 kgcm²
Max. force on gripper jaw Fz static	750 N
Max. torque at gripper Mx static	18 Nm
Max. torque at gripper My static	18 Nm
Max. torque at gripper Mz static	18 Nm
Maintenance interval	Lifetime lubrication
Product weight	4154 g
Type of mounting	Either: Direct mounting via thread With through-hole
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Material cover cap	Wrought aluminium alloy, anodised
Material cover	Anodised wrought aluminium alloy
Material end plate	Anodised wrought aluminium alloy
Material housing	Anodised wrought aluminium alloy
Material gripper jaws	Anodised wrought aluminium alloy
Material piston seal	TPE-U(PU)
Material piston rod	High-alloy stainless steel
Material o-ring	NBR
Material screws	Galvanised steel
Gear rack material	High-alloy stainless steel
Gear wheel material	Sintered bronze