

Radial gripper HGRT-50-A

Part number: 563914

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Size	50
Max. replacement accuracy	≤0.2 mm
Max. angular gripper jaw backlash ax, ay	≤0.1 deg
Max. opening angle	180 deg
Rotationally symmetrical	≤0.2 mm
Repetition accuracy, gripper	≤0.02 mm
Number of gripper jaws	2
Mounting position	optional
Mode of operation	Double-acting
Gripper function	Radial
Design	Force pilot operated motion sequence
Position detection	Via proximity switch Via inductive sensors
Symbol	00991894
Operating pressure	3 bar ... 8 bar
Max. operating frequency of gripper	≤2 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	350 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	403 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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	5 °C ... 60 °C
Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening	8424 Ncm
Total gripper torque, closing, 0.6 MPa (6 bar, 87 psi)	7754 Ncm
Mass moment of inertia	43.39 kgcm ²
Max. force on gripper jaw Fz static	1200 N
Max. torque at gripper My static	35 Nm
Max. torque at gripper Mz static	10 Nm
Lubrication interval for guide components	10 MioCyc
Product weight	3100 g
Type of mounting	Via female thread and centring sleeve
Pneumatic connection	G1/8
Note on materials	RoHS-compliant

Feature	Value
Material housing	Smooth-anodised wrought aluminium alloy
Material gripper jaws	Hardened steel