

Radial gripper HGRT-50-A

Part number: 563914

FESTO



 General operating condition

Data sheet

Feature	Value
Size	50
Max. interchangeability	≤0.2 mm
Max. gripper jaw angular play ax, ay	≤0.1 deg
Max. opening angle	180 deg
Rotational symmetry	≤0.2 mm
Pneumatic gripper repetition accuracy	≤0.02 mm
Number of gripper jaws	2
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Radial
Structural design	Positively driven motion sequence
Position sensing	For proximity sensor For inductive proximity sensors
Symbol	00991894
Operating pressure	3 bar ... 8 bar
Max. operating frequency of pneumatic gripper	≤2 Hz
Min. opening time at 6 bar	350 ms
Min. closing time at 6 bar	403 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)	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 gripping torque at 6 bar, closing	7754 Ncm
Mass moment of inertia	43.39 kgcm ²
Maximum force on gripper jaw Fz, static	1200 N
Maximum torque on gripper jaw, My static	35 Nm
Maximum torque on gripper jaw, Mz static	10 Nm
Relubrication interval for guidance elements	10 MioCyc
Product weight	3100 g
Type of mounting	With internal thread and centering sleeve
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy, smooth-anodized

Feature	Value
Gripper jaw material	Hardened steel