

# Radial gripper HGRT-50-A

Part number: 563914

FESTO



## Data sheet

Feature	Value
Size	50
Max. interchangeability	$\leq 0.2$ mm
Max. gripper jaw angular play ax, ay	$\leq 0.1$ deg
Max. opening angle	180 deg
Rotational symmetry	$\leq 0.2$ mm
Pneumatic gripper repetition accuracy	$\leq 0.02$ mm
Type code	HGRT
Number of gripper jaws	2
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Radial
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	$\leq 2$ 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
Ambient temperature	5 °C ... 60 °C
Total gripping torque at 6 bar, opening	8424 Ncm
Total gripping torque at 6 bar, closing	7754 Ncm
Mass moment of inertia	43.39 kgcm <sup>2</sup>
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	Free of copper and PTFE RoHS-compliant

Feature	Value
Housing material	Aluminum Smooth anodized
Gripper jaw material	Steel Hardened