

Radial gripper DHRC-20-A

Part number: 8128697

FESTO



 General operating condition

Data sheet

Feature	Value
Size	20
Max. replacement accuracy	≤0.2 mm
Max. opening angle	180 deg
Rotationally symmetrical	≤0.2 mm
Repetition accuracy, gripper	≤0.1 mm
Number of gripper jaws	2
Drive system	Pneumatic
Mounting position	optional
Mode of operation	Double-acting
Gripper function	Radial
Gripper force back-up	None
Design	Force pilot operated motion sequence
Position detection	Via proximity switch
Symbol	00991894
Operating pressure	0.1 MPa ... 0.8 MPa
Operating pressure	1 bar ... 8 bar
Operating pressure	14.5 psi ... 116 psi
Max. operating frequency of gripper	≤2 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	44 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	57 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	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature	-10 °C ... 60 °C
Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening	166.2 Ncm
Total gripper torque, closing, 0.6 MPa (6 bar, 87 psi)	134.3 Ncm
Mass moment of inertia	0.292 kgcm ²
Max. force on gripper jaw Fz static	100 N
Max. torque at gripper Mx static	4 Nm
Max. torque at gripper My static	2 Nm
Max. torque at gripper Mz static	4 Nm
Product weight	218.4 g

Feature	Value
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	M5
Note on materials	RoHS-compliant
Material cover cap	Wrought aluminium alloy, anodised
Material housing	Anodised wrought aluminium alloy
Material gripper jaws	High-alloy steel