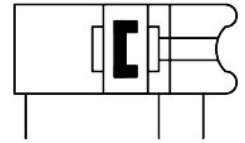
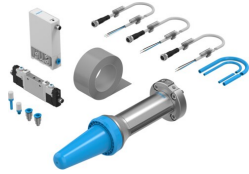


Adaptive shape gripper kit for robots DHEF-20-A-RA50

Part number: 8210811

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Size	20
Shaped handle cap version	Standard
Stroke	66 mm
Min. diameter to be gripped	12 mm
Max. diameter to be gripped	38 mm
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Adaptive
Structural design	Positively driven motion sequence
Guide	Basic guide
Position sensing	For proximity sensor
Symbol	00997278
Pick-up tolerance	±4 mm
Storage tolerance	±2 mm
Operating pressure of actuator	0.1 MPa ... 0.8 MPa
Operating pressure of actuator	1 bar ... 8 bar
Operating pressure of actuator	14.5 psi ... 116 psi
Operating pressure of cap	0.007 MPa ... 0.01 MPa
Operating pressure of cap	0.07 bar ... 0.1 bar
Operating pressure of cap	1.015 psi ... 1.45 psi
Burst pressure of cap	0.03 MPa
Burst pressure of cap	0.3 bar
Burst pressure of cap	4.35 psi
Recommended flow rate for pressure regulator	10 l/min
Max. operating frequency of pneumatic gripper	1 Hz
Retracting time	290 ms
Advancing time	270 ms
Max. speed without gripped object	290 mm/s
Max. speed during gripping	120 mm/s
Theoretical force at 6 bar, advancing	158 N
Theoretical force at 6 bar, retracting	189 N
Dynamic transverse load max. projection	2.3 N
Contact force on the gripping object	20 N
Static holding force parallel to the gripper axis	26 N
Static holding force perpendicular to the gripper axis	45 N

Feature	Value
Impact energy in the end positions	0.1 J
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Ambient temperature	0 °C ... 60 °C
Mass moment of inertia	1.29 kgcm ²
Guide value for payload	1 kg
Product weight	475 g
Moving mass	60 g
Note on the moving mass	without inverting cap
Type of mounting	as per ISO 9409
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cap material	VMQ (silicone)
Housing material	Aluminum, anodized
Material locking cover	PA
Scope of delivery	1x Velcro® roll 1x solenoid valve 1x proportional-pressure regulator 2x proximity switches 3x connecting cable
Actuator system	Pneumatic