

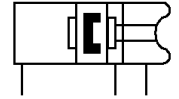
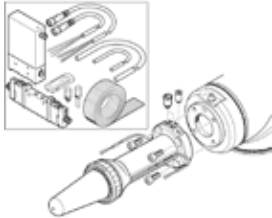
# adaptive shape gripper kit for robots

## DHEF-20-A-RA1

Part number: 8119114

FESTO

Other stroke lengths on request. Available only in standard stroke lengths 5, 10, 15, 20, 25, 30 mm.



## Data sheet

Feature	Value
Size	20
Inverting cap version	Standard
Stroke	66 mm
Min. diameter to be gripped	12 mm
Max. diameter to be gripped	38 mm
Drive system	pneumatic
Assembly position	Any
Mode of operation	double-acting
Gripper function	Adaptive
Design structure	Inverting cap guided motion sequence
Guide	Basic guide
Position detection	For proximity sensor
Working pressure, ball valve actuator	1 ... 8 bar
Operating pressure of cap	0.07 ... 0.1 bar
Burst pressure of cap	0.3 bar
Max. operating frequency of gripper	1 Hz
Return-stroke time	290 ms
Advancing time	270 ms
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364 zone III
Ambient temperature	0 ... 60 °C
Mass moment of inertia	1.29 kgcm <sup>2</sup>
Effective load reference value	1 kg
Product weight	475 g
Mounting type	To ISO 9409
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cap	VMQ (silicon)
Material housing	Anodised aluminium
Robot connection	Universal robots UR3/5/10 (PolyScope CB 3.8.0 or higher) Universal robots UR3e/5e/10e (PolyScope SW 5.0.0 or higher)
Accessories included	1x Velcro® roll 1x solenoid valve 1x proportional-pressure regulator 1x USB-Stick mit URcap 2x proximity switch 3x connecting cable