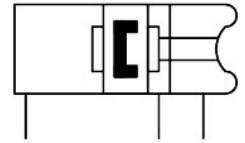


Adaptive shape gripper DHEF-20-A

Part number: 8092533

FESTO



Data sheet

Feature	Value
Size	20
Inverting cap version	Standard
Stroke	66 mm
Min. ø to be gripped	12 mm
Max. ø to be gripped	38 mm
Drive system	Pneumatic
Mounting position	optional
Mode of operation	Double-acting
Gripper function	Adaptive
Design	Inverting cap Force pilot operated motion sequence
Guide	Basic guide
Position detection	Via proximity switch
Pick-up tolerance	±4 mm
Placement tolerance	±2 mm
Operating pressure of ball valve drive unit	1 bar...8 bar
Operating pressure of cap	0.07 bar...0.1 bar
Burst pressure of cap	0.3 bar
Recommended flow rate for pressure regulator	10 l/min
Max. operating frequency of gripper	1 Hz
Return-stroke time	290 ms
Advance time	270 ms
Max. speed without gripped object	290 mm/s
Max. speed during gripping	120 mm/s
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Suitable for use with food	See supplementary material information
Ambient temperature	0 °C...60 °C
Mass moment of inertia	1.29 kgcm ²
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	158 N

Feature	Value
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	189 N
Dynamic lateral force with 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
Impact energy in end positions	0.1 J
Guide value for effective load	1 kg
Product weight	475 g
Moving mass	60 g
Note on the moving mass	Without inverting cap
Type of mounting	To ISO 9409
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cap	VMQ (silicone)
Material housing	Anodised aluminium
Locking cover material	PA