

Single-finger Cylinder DHWF

FESTO

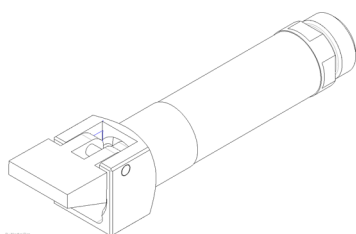


Type Code

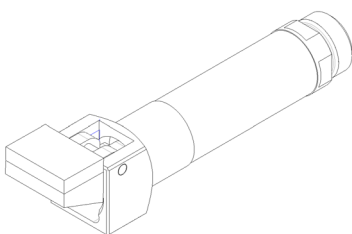
DHWF-...

001	Generation	
DHWF	Finger cylinder	
002	Piston diameter \varnothing	
16	16 mm	
003	Rubber cushion	
C	With a rubber cushion	
-	Without a rubber cushion	
D	With mounting holes	

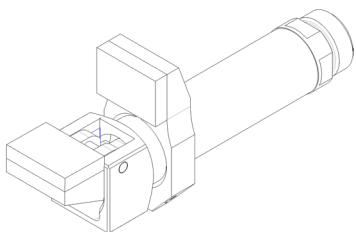
004	Clamping base	
1	With a clamping base	
-	Without a clamping base	
005	Customized	
CS	Customized solution	



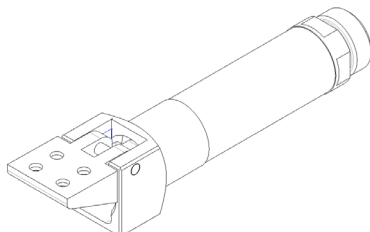
DHWF-16-CS



DHWF-16-C-CS



DHWF-16-C-1-CS




DHWF-16-D-CS

Technical Data

Function



-  - Piston diameter
16 mm

- Workpieces firmly lifted or contacted by the finger gripper
- Pneumatic single stroke and spring return stroke function
- Fully compatible with the EOAT system of the gripper of the module
- Can be equipped with a rubber cushion to protect the appearance of workpieces



General technical data

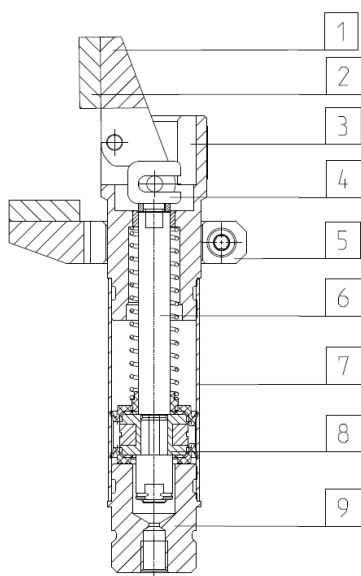
Piston diameter \varnothing /Type	DHWF-16-CS	DHWF-16-C-CS	DHWF-16-C-1-CS	DHW-6-D-CS
Cylinder design	Single-acting piston cylinder with finger holding function			
Operating mode	Single-acting cylinders			
Operating pressure	0.25–0.8 MPa			
Medium	Filtered compressed air			
Ambient temperature	5–60°C			
Gripper jaw function	Right angle			
Maximum load of a single finger	2 kg			
Opening/Closing time	With a clamp: 0.015s/0.285s; without a clamp: 0.007s / 0.218s			
Opening angle	95°			
Pneumatic connection	M5			
Mounting surface	Cylinder surface			
Closing torque at 0.6 MPa air pressure	70 Ncm			
Raw material of rubber cushion	NBR (hardness: A70)			
Weight (g)	65	66	80	64

Operating and environmental conditions	
Operating medium	Filtered compressed air to ISO 8573-1:2010 [7:4:4]
Note on the medium	Operation with lubricated medium possible (in which case operation with lubricated medium will always be required)
Operating pressure [MPa]	0.25 ... 0.8
Ambient temperature [°C]	5...60

Technical Data

Materials

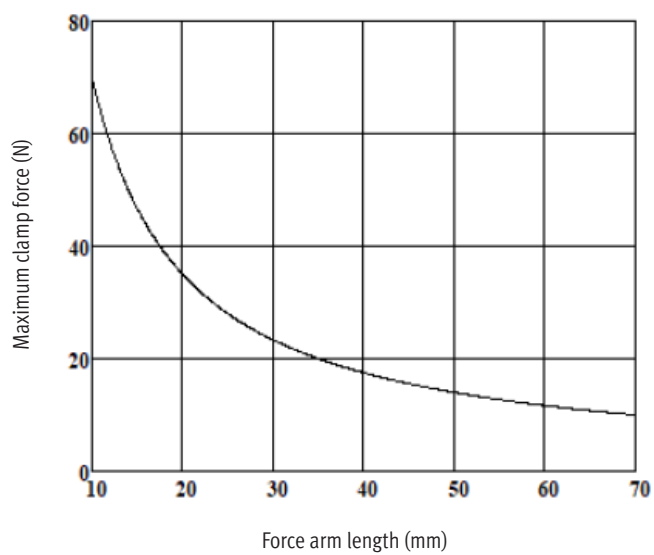
Sectional view



Component material		
[1]	Finger	Aluminium alloy
[2]	Rubber cushion	Nitrile rubber (NBR)
[3]	Bearing cover	Aluminium alloy
[4]	Hook	High-alloy steel
[5]	Clamping base	Aluminium alloy
[6]	Piston rod	High-alloy steel
[7]	Cylinder barrel	High-alloy steel
[8]	Piston	Aluminium alloy
[9]	End cap	Aluminium alloy
–	Sealing materials	Nitrile rubber (NBR)

Technical Data

Force arm vs. clamp force

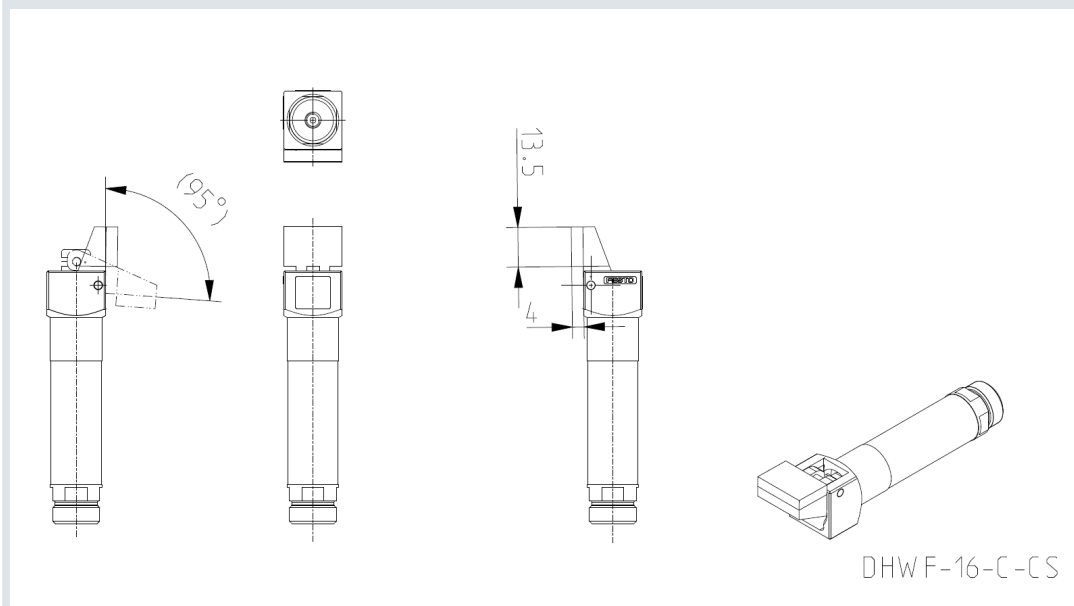
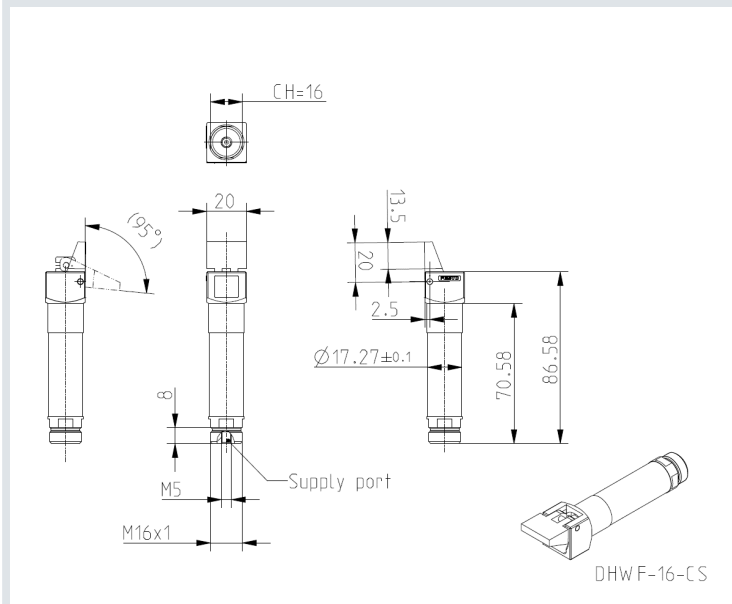


Technical Data

Dimensions

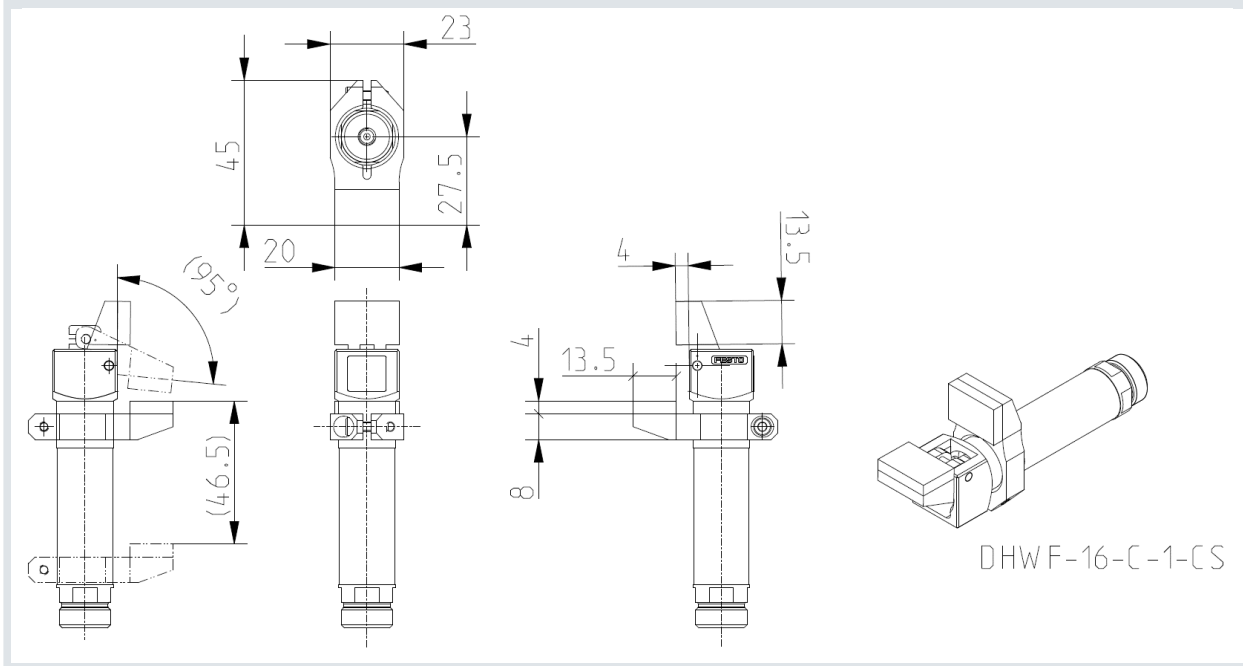
CAD data → www.festo.com

DHWF-16



Technical Data

Dimensions

CAD data → www.festo.com

Ordering data – Single-finger cylinder

Piston diameter [mm]	Part no.	Type
16	Single-finger cylinder	
	8147309	DHWF-16-CS
	8147310	DHWF-16-C-CS
	8147311	DHWF-16-C-1-CS
	8172675	DHWF-16-D-CS
	Accessories	
	8149888	DHWF-16-CS

Accessories

Adapter

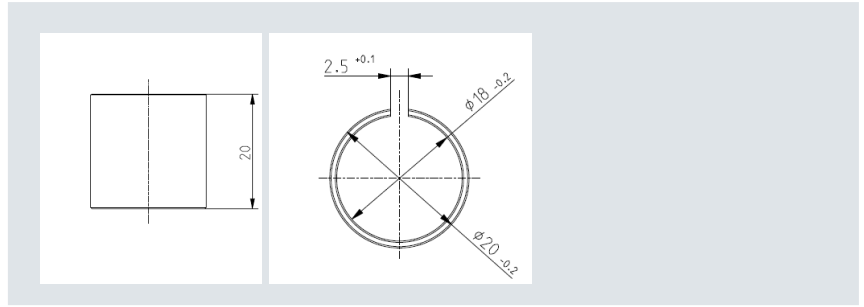
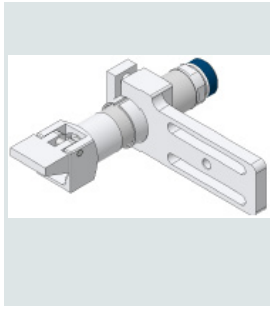
Material:

Aluminium alloy

Part no.: 8149888

Type: DHWF-16-CA-CS

Weight: 3.1 g



Note

After this clamp is selected, it can adapt to a common mounting bracket for a $\varnothing 20$ single-finger cylinder of the same kind in the market.