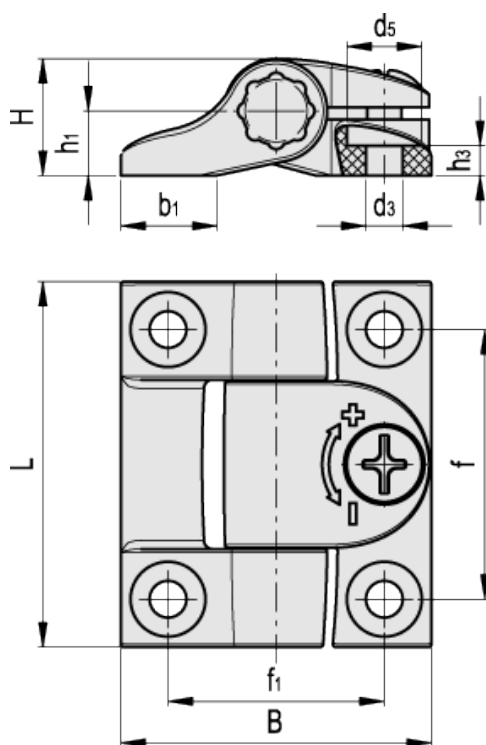


CFU.

Hinge with adjustable friction



ELESA Original design

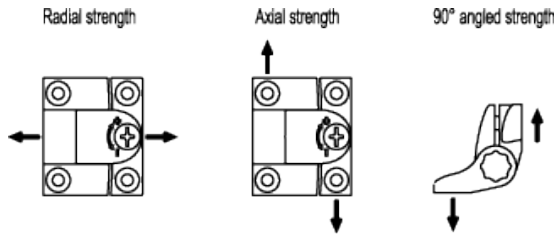


american unit
metric unit

Elesa Standards		Main dimensions							Fitting				Weight	
Code	Description	L	B	$f_{\pm 0.0098}$	$f_{1\pm 0.0098}$	H	h_1	b_1	d_3	h_3	d_5	C [ft·lb] [Nm] #	lbs g	
427512	CFU.40 CH-4	1.69 43	1.44 36.5	1.25 31.7	1 25.5	0.55 14	0.3 7.5	0.45 11.5	0.18 4.5	0.14 3.5	0.35 9	1 1	0.057 26	
427522	CFU.60 CH-6	2.5 63.5	2.22 56.5	1.87 47.5	1.5 38	0.83 21	0.45 11.5	0.69 17.5	0.26 6.5	0.26 6.5	0.49 12.5	2 3	0.108 49	
427513	CFU.40 CH-4 CLEAN	1.69 43	1.44 36.5	1.25 31.7	1 25.5	0.55 14	0.3 7.5	0.45 11.5	0.18 4.5	0.14 3.5	0.35 9	1 1	0.033 15	
427523	CFU.60 CH-6 CLEAN	2.5 63.5	2.22 56.5	1.87 47.5	1.5 38	0.83 21	0.45 11.5	0.69 17.5	0.26 6.5	0.26 6.5	0.49 12.5	2 3	0.057 26	

Elesa Standards		Main dimensions							Fitting				Weight
Code	Description	L	B	$f_{\pm 0.0098}$	$f_{1\pm 0.0098}$	H	h_1	b_1	d_3	h_3	d_5	C [ft·lb] [Nm] #	lbs g

Suggested torque for fitting screws



Elesa Standards		AXIAL STRENGTH		RADIAL STRENGTH		90° ANGLED STRENGTH	Maximum tightening torque
Description	Maximum working load Ea [lbf] [N]	Load at breakage Ra [lbf] [N]	Maximum working load Er [lbf] [N]	Load at breakage Rr [lbf] [N]	Maximum working load E90 [lbf] [N]	Load at breakage R90 [lbf] [N]	[ft·lbf][Nm]
CFU.40 CH-4	157 700	246 1100	314 1400	403 1800	112 500	224 1000	1 1.4
CFU.60 CH-6	336 1500	526 2350	504 2250	717 3200	336 1500	560 2500	3 4

Material

Acetal-resin based technopolymer (POM). Resistant to oils, greases and other chemical agents. Flammability class UL94-HB.

Colour

Black, matte finish.

Execution CLEAN: white similar to RAL 9002, matte finish.

Rotation pin

Polycarbonate based technopolymer, black colour (white for execution CLEAN). Flammability class UL94-HB.

Adjusting boss and screw

AISI 304 stainless steel screw.

AISI 303 stainless steel adjusting boss.

Assembly

Through holes for cylindrical head screws.

Features and applications

CFU. hinge has been designed for applications where the force to open or close a door needs to be controlled and adjusted, facilitating the possibility to keep the door open, partially open or closed.

To adjust the friction force, simply turn the screw on the hinge body, clockwise to increase the friction and anti-clockwise to reduce it.

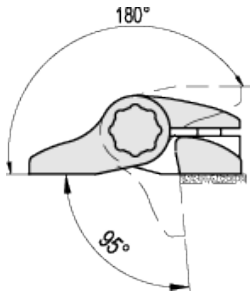
CFU-CLEAN hinges are particularly suitable for application on medical and hospital equipment and for food processing machines.

Rotation angle

Max 275°, between 0° and -95° and 0° and +180°

(0°=condition where the two interconnected surfaces are on the same plane).

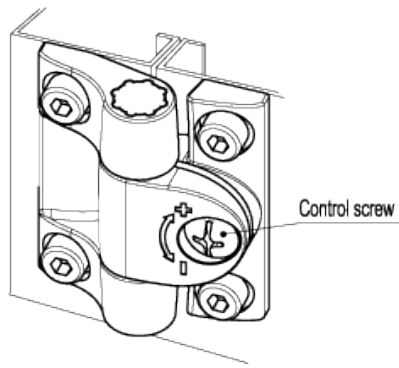
Do not exceed the rotation angle limit (see drawing) so as not to prejudice the hinge mechanical performance.



Stress resistance

A torque of 0.8 Nm (CFU.40) and 4.0 Nm (CFU.60) have been applied on the control screw and then the hinge has been tested with more than 60.000 opening and closing cycles. After the test the friction was unchanged.

Application example



STANDARD MACHINE ELEMENTS WORLDWIDE

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