

Hinges with adjustable friction



Material

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

Pin

Polycarbonate based (PC) technopolymer, black colour (white for CLEAN execution). Flammability class UL94-V2.

Adjusting boss and screw

AISI 304 stainless steel screw.
AISI 303 stainless steel adjusting boss.

Standard executions

Assembly by means of pass-through holes for cylindrical head screws.

- **CFU**: black colour, matte finish.
- **CFU-CLEAN**: white colour similar to RAL 9002, matte finish.

Features and applications

The main feature of CFU. hinge is the possibility to adjust the resistant torque of the door on which it is assembled, facilitating the door clamping in the various positions of opening, partial opening and closing.

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

Rotation angle (approximate value)

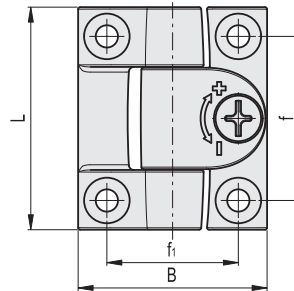
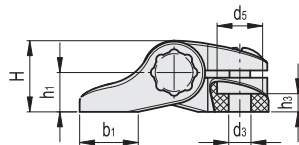
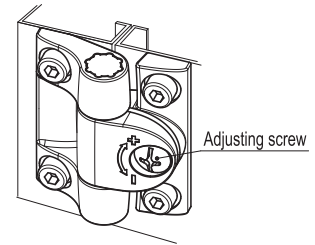
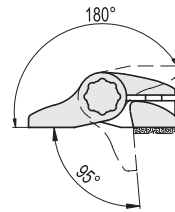
Max 275° (-95° and +180° being 0° the condition where the two interconnected surfaces are on the same plane).

Do not exceed the rotation angle limit so as not to prejudice the hinge mechanical performance.

Resistant torque

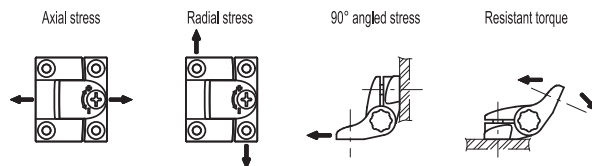
The resistant torque values of 1.4 and 4 Nm can be obtained by applying a maximum tightening torque of 0.8 Nm (CFU.40) and 4 Nm (CFU.60) on the adjusting screw.

The hinge had been tested with more than 60.000 opening and closing cycles and the values of the resistant torques were unchanged.



Standard Elements		Main Dimensions							Fitting			△△	
Code	Description	L	B	f ±0.25	f1 ±0.25	H	h1	b1	d3	h3	ds	C [Nm] #	g
427512	CFU.40 CH-4	43	36.5	31.7	25.5	14	7.5	11.5	4.5	3.5	9	1	26
427522	CFU.60 CH-6	63.5	56.5	47.5	38	21	11.5	17.5	6.5	6.5	12.5	3	49
427513	CFU.40 CH-4 CLEAN	43	36.5	31.7	25.5	14	7.5	11.5	4.5	3.5	9	1	15
427523	CFU.60 CH-6 CLEAN	63.5	56.5	47.5	38	21	11.5	17.5	6.5	6.5	12.5	3	26

Suggested tightening torque for assembly screws.



Resistance tests	AXIAL STRESS		RADIAL STRESS		90° ANGLED STRESS		Resistant torque
Description	Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load Er [N]	Load at breakage Rr [N]	Maximum working load E90 [N]	Load at breakage R90 [N]	[Nm]
CFU.40 CH-4	700	1100	1400	1800	500	1000	1.4
CFU.60 CH-6	1500	2350	2250	3200	1500	2500	4