CFD.

FM Design

Hinges for thin doors

PA

- **Material**
  High resilience polyamide based (PA) technopolymer. Resistant to solvents, oils, greases and other chemical agents.
- **Colour**
  Black, matte finish.
- **Rotation pin**
  AISI 303 stainless steel.
- **Assembly**
  - Execution **B**: nickel-plated brass bushings, tapped hole.
  - Execution **p**: nickel-plated steel threaded studs.
  - Combined executions: **p/B - B/p - CH/B - CH/p** (CH = through holes for cylindrical head screws).

Features and applications

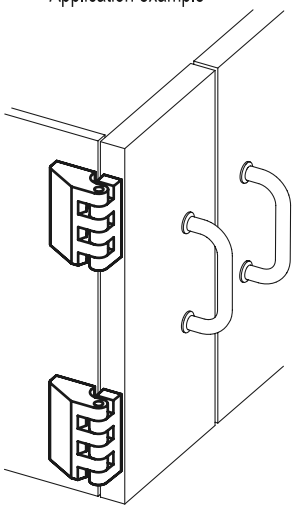
The hinge is made up of two bodies with different dimensions (a narrow one and a larger one). They can be assembled for example on structures with thin jambs and doors.

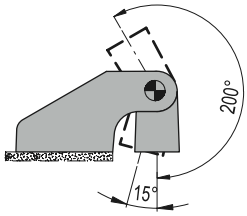
Rotation angle

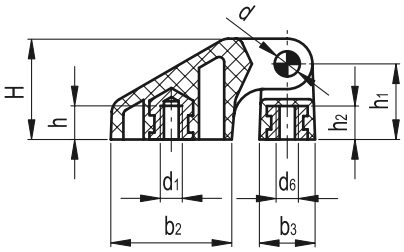
Max 215°, between 0° and -15° and between 0° and 200°
(0° = condition where the two interconnected surfaces are on the same plane).
Do not exceed the rotation angle limit (see drawing) so as not to prejudice the hinge mechanical performance.

To choose the convenient type and the right number of hinges for your application, see the Guidelines (see page 792).

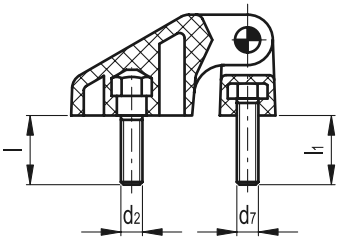
Application example



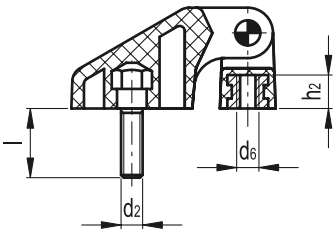




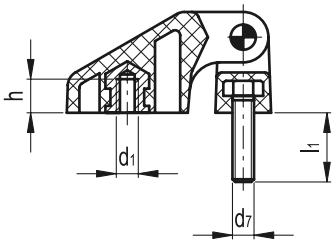
CFD-B



CFD p



CFD p / B



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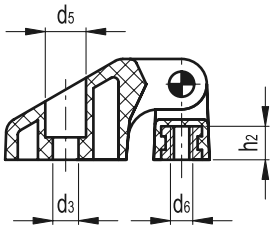
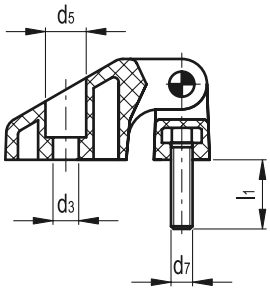


CFD-CH / B



CFD-CH / p

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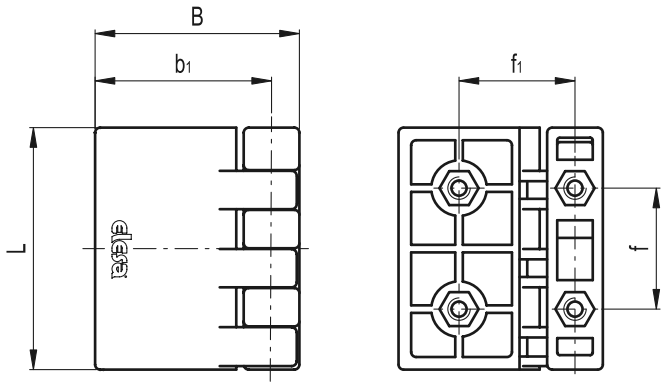

Standard Elements		Main dimensions										Fitting large part						Fitting narrow part				
												Bushings		Studs		Through holes		Bushings		Studs		⚖
Code	Description	B	L	f ±0.25	f1 ±0.25	H	h1	b1	b2	b3	d	d1	h	d2	l	d3	d5	d6	h2	d7	l1	g
422711	CFD.30 B-M3	26.5	30.5	15	15	12.5	9.5	22.5	15	7	2.5	M3	4	-	-	-	-	M3	4	-	-	8
422721	CFD.30 p-M3x13	26.5	30.5	15	15	12.5	9.5	22.5	15	7	2.5	-	-	M3	13	-	-	-	-	M3	13	11
422731	CFD.30 p-M3x13-B-M3	26.5	30.5	15	15	12.5	9.5	22.5	15	7	2.5	-	-	M3	13	-	-	M3	4	-	-	10
422741	CFD.30 B-M3-p-M3x13	26.5	30.5	15	15	12.5	9.5	22.5	15	7	2.5	M3	4	-	-	-	-	-	-	M3	13	9
422751	CFD.30 CH-3-B-M3	26.5	30.5	15	15	12.5	9.5	22.5	15	7	2.5	-	-	-	-	3.5	6	M3	4	-	-	7
422761	CFD.30 CH-3-p-M3x13	26.5	30.5	15	15	12.5	9.5	22.5	15	7	2.5	-	-	-	-	3.5	6	-	-	M3	13	8
422811	CFD.40 B-M4	34	40.5	20	20.2	16.5	12.5	29.5	20	9.5	4	M4	5.5	-	-	-	-	M4	5.5	-	-	19
422821	CFD.40 p-M4x18	34	40.5	20	20.2	16.5	12.5	29.5	20	9.5	4	-	-	M4	18	-	-	-	-	M4	18	26
422831	CFD.40 p-M4x18-B-M4	34	40.5	20	20.2	16.5	12.5	29.5	20	9.5	4	-	-	M4	18	-	-	M4	5.5	-	-	23
422841	CFD.40 B-M4-p-M4x18	34	40.5	20	20.2	16.5	12.5	29.5	20	9.5	4	M4	5.5	-	-	-	-	-	-	M4	18	21
422851	CFD.40 CH-4-B-M4	34	40.5	20	20.2	16.5	12.5	29.5	20	9.5	4	-	-	-	-	4.5	7.5	M4	5.5	-	-	16
422861	CFD.40 CH-4-p-M4x18	34	40.5	20	20.2	16.5	12.5	29.5	20	9.5	4	-	-	-	-	4.5	7.5	-	-	M4	18	19
422911	CFD.48 B-M5	40.5	48.5	24	23	20	15	35	24	11.5	5	M5	6.5	-	-	-	-	M5	6.5	-	-	33
422921	CFD.48 p-M5x17	40.5	48.5	24	23	20	15	35	24	11.5	5	-	-	M5	17	-	-	-	-	M5	17	46
422931	CFD.48 p-M5x17-B-M5	40.5	48.5	24	23	20	15	35	24	11.5	5	-	-	M5	17	-	-	M5	6.5	-	-	41
422941	CFD.48 B-M5-p-M5x17	40.5	48.5	24	23	20	15	35	24	11.5	5	M5	6.5	-	-	-	-	-	-	M5	17	38
422951	CFD.48 CH-5-B-M5	40.5	48.5	24	23	20	15	35	24	11.5	5	-	-	-	-	5.5	9	M5	6.5	-	-	27
422961	CFD.48 CH-5-p-M5x17	40.5	48.5	24	23	20	15	35	24	11.5	5	-	-	-	-	5.5	9	-	-	M5	17	31
423011	CFD.66 B-M6	56	66	33	31.8	27.5	21	48.5	33	15	6	M6	10	-	-	-	-	M6	9	-	-	76
423021	CFD.66 p-M6x16	56	66	33	31.8	27.5	21	48.5	33	15	6	-	-	M6	16	-	-	-	-	M6	16	95
423031	CFD.66 p-M6x16-B-M6	56	66	33	31.8	27.5	21	48.5	33	15	6	-	-	M6	16	-	-	M6	9	-	-	90
423041	CFD.66 B-M6-p-M6x16	56	66	33	31.8	27.5	21	48.5	33	15	6	M6	10	-	-	-	-	-	-	M6	16	82
423051	CFD.66 CH-6-B-M6	56	66	33	31.8	27.5	21	48.5	33	15	6	-	-	-	-	6.5	10.5	M6	9	-	-	66
423061	CFD.66 CH-6-p-M6x16	56	66	33	31.8	27.5	21	48.5	33	15	6	-	-	-	-	6.5	10.5	-	-	M6	16	71

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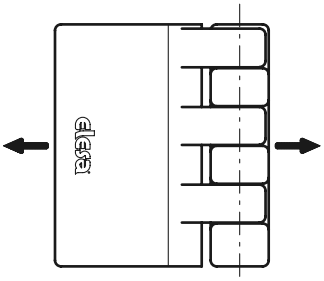
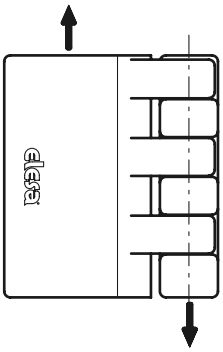
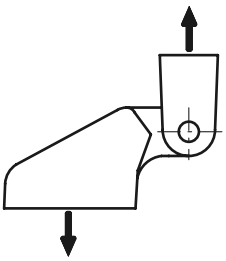


Radial strength



Axial strength



90° angled strength

Standard Elements		RADIAL STRENGTH		AXIAL STRENGTH		90° ANGLED STRENGTH		Maximum tightening torque [Nm]		
Code	Description	Maximum working load Er [N]	Load at breakage Rr [N]	Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load E90 [N]	Load at breakage R90 [N]	SH/CH	B	p
422711	CFD.30 B-M3	70	490	60	690	60	500	-	1	-
422721	CFD.30 p-M3x13	40	340	70	750	30	390	-	-	1
422731	CFD.30 p-M3x13-B-M3	40	340	60	690	30	390	-	1	1
422741	CFD.30 B-M3-p-M3x13	40	340	60	690	30	390	-	1	1
422751	CFD.30 CH-3-B-M3	110	720	100	830	70	670	0.5	1	-
422761	CFD.30 CH-3-p-M3x13	50	450	60	730	30	350	0.5	-	1
422811	CFD.40 B-M4	150	1340	160	1710	100	700	-	4	-
422821	CFD.40 p-M4x18	140	880	110	1230	50	730	-	-	1.5
422831	CFD.40 p-M4x18-B-M4	140	880	110	1230	50	700	-	4	1.5
422841	CFD.40 B-M4-p-M4x18	140	880	110	1230	50	700	-	4	1.5
422851	CFD.40 CH-4-B-M4	150	1220	120	1620	130	1110	1	4	-
422861	CFD.40 CH-4-p-M4x18	140	820	150	1480	100	860	1	-	1.5
422911	CFD.48 B-M5	260	1700	260	2440	120	1640	-	>5	-
422921	CFD.48 p-M5x17	240	1840	290	1770	110	1740	-	-	3
422931	CFD.48 p-M5x17-B-M5	240	1700	260	1770	110	1640	-	>5	3
422941	CFD.48 B-M5-p-M5x17	240	1700	260	1770	110	1640	-	>5	3
422951	CFD.48 CH-5-B-M5	240	1890	330	2530	290	1870	2	-	-
422961	CFD.48 CH-5-p-M5x17	120	1200	150	2170	110	970	2	-	3
423011	CFD.66 B-M6	320	2520	450	4130	220	2250	-	5	-
423021	CFD.66 p-M6x16	260	1700	470	3260	240	1580	-	-	>5
423031	CFD.66 p-M6x16-B-M6	260	1700	450	3260	220	1580	-	5	>5
423041	CFD.66 B-M6-p-M6x16	260	1700	450	3260	220	1580	-	5	>5
423051	CFD.66 CH-6-B-M6	410	2610	430	3660	310	2830	5	5	-
423061	CFD.66 CH-6-p-M6x16	280	1770	350	3090	180	1610	5	-	>5

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