

Hinges

Technopolymer

MATERIAL

High-resilience polyamide based (PA) technopolymer, black colour, matte finish.

ROTATING PIN

AISI 303 stainless steel.

STANDARD EXECUTIONS

- **CFE-B**: nickel-plated brass bosses with threaded hole.
- **CFE-p**: nickel-plated brass threaded studs.
- **CFE-CH**: pass-through holes for cylindrical head screws.
- **CFE-B-p**: nickel-plated brass bosses with threaded hole and nickel-plated brass threaded studs.
- **CFE-B-CH**: nickel-plated brass bosses with threaded hole and pass-through holes for cylindrical head screws.
- **CFE-p-CH**: nickel-plated brass threaded studs and pass-through holes for cylindrical head screws.

APPLICATIONS

This hinge has been developed in particular for doors provided with gaskets.

ROTATION ANGLE (APPROXIMATE VALUE)

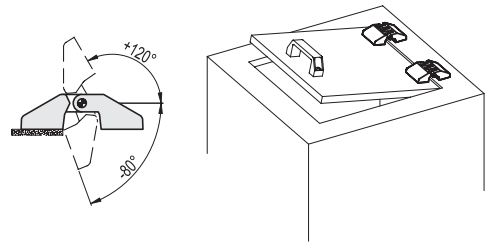
Max 200° (-80° and +120° being 0° the condition where the two interconnected surfaces are on the same plane).

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

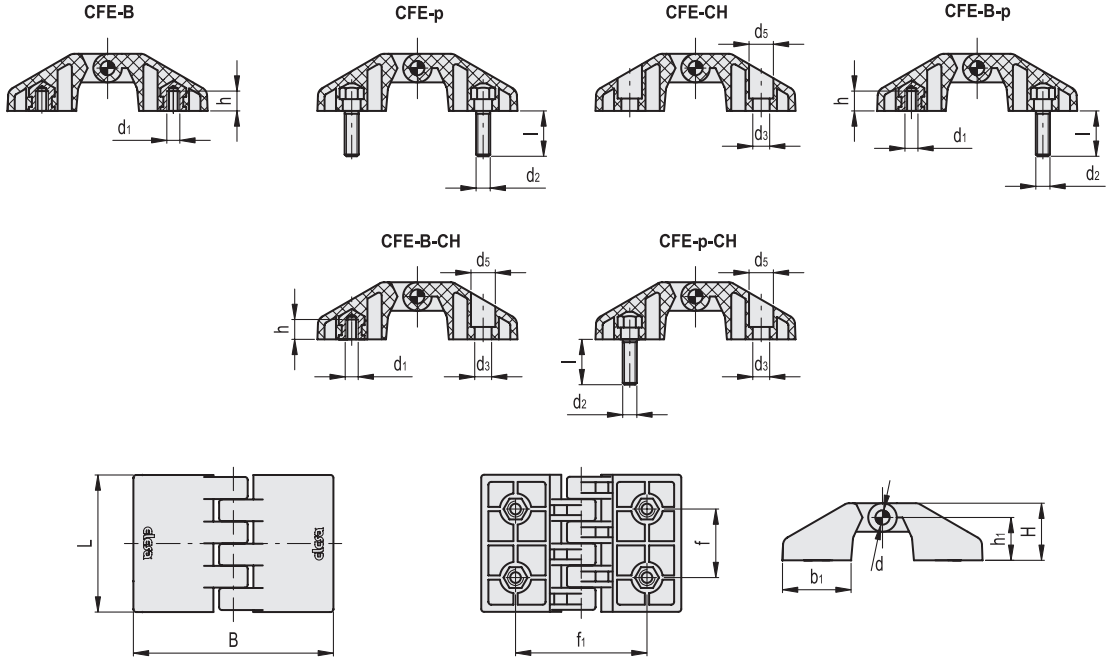
To choose the convenient type and the right number of hinges for your application, see the Guidelines (on page 1368).



F.M design



| Resistance tests | AXIAL STRESS | | RADIAL STRESS | | 90° ANGLED STRESS | |
|---------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|------------------------------|--------------------------|
| | 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] |
| CFE.30 B-M3 | 50 | 660 | 140 | 1040 | 50 | 310 |
| CFE.30 p-M3x13 | 40 | 460 | 110 | 1040 | 60 | 560 |
| CFE.30 CH-3 | 50 | 640 | 120 | 980 | 20 | 300 |
| CFE.30 B-M3-p-M3x13 | 40 | 460 | 110 | 1040 | 50 | 310 |
| CFE.30 B-M3-CH-3 | 50 | 640 | 120 | 980 | 20 | 300 |
| CFE.30 p-M3x13-CH-3 | 40 | 460 | 110 | 980 | 20 | 300 |
| CFE.40 B-M4 | 90 | 1110 | 230 | 1920 | 60 | 590 |
| CFE.40 p-M4x18 | 90 | 1110 | 300 | 2440 | 60 | 590 |
| CFE.40 CH-4 | 150 | 1580 | 370 | 2460 | 80 | 1210 |
| CFE.40 B-M4-p-M4x18 | 90 | 1110 | 230 | 1920 | 60 | 590 |
| CFE.40 B-M4-CH-4 | 90 | 1110 | 230 | 1920 | 60 | 590 |
| CFE.40 p-M4x18-CH-4 | 90 | 1110 | 300 | 2440 | 60 | 590 |
| CFE.48 B-M5 | 160 | 1260 | 440 | 2890 | 190 | 1290 |
| CFE.48 p-M5x17 | 190 | 1900 | 310 | 2870 | 160 | 1190 |
| CFE.48 CH-5 | 300 | 2160 | 410 | 2850 | 150 | 1440 |
| CFE.48 B-M5-p-M5x17 | 160 | 1260 | 310 | 2870 | 160 | 1190 |
| CFE.48 B-M5-CH-5 | 160 | 1260 | 410 | 2850 | 150 | 1290 |
| CFE.48 p-M5x17-CH-5 | 190 | 1900 | 310 | 2850 | 150 | 1190 |
| CFE.66 B-M6 | 530 | 4160 | 500 | 2480 | 310 | 2250 |
| CFE.66 p-M6x16 | 240 | 2670 | 700 | 3490 | 270 | 1830 |
| CFE.66 CH-6 | 440 | 3160 | 690 | 3450 | 260 | 2920 |
| CFE.66 B-M6-p-M6x16 | 240 | 2670 | 500 | 2480 | 270 | 1830 |
| CFE.66 B-M6-CH-6 | 440 | 3160 | 500 | 2480 | 260 | 2250 |
| CFE.66 p-M6x16-CH-6 | 240 | 2670 | 690 | 3450 | 260 | 1830 |



| Code | Description | L | B | d1 | h | d2 | l | f±0.25 | f1±0.25 | H | h1 | b1 | d | d3 | d5 | C [Nm] B# | C [Nm] p# | C [Nm] CH# | ⚖️ |
|--------|---------------------|------|------|----|-----|----|----|--------|---------|------|------|----|-----|-----|------|--------------|--------------|---------------|-----|
| 423111 | CFE.30 B-M3 | 30.5 | 45.5 | M3 | 4 | - | - | 15 | 30 | 12.5 | 9.5 | 15 | 2.5 | - | - | 1 | - | - | 11 |
| 423121 | CFE.30 p-M3x13 | 30.5 | 45.5 | - | - | M3 | 13 | 15 | 30 | 12.5 | 9.5 | 15 | 2.5 | - | - | - | 1 | - | 14 |
| 423131 | CFE.30 CH-3 | 30.5 | 45.5 | - | - | - | - | 15 | 30 | 12.5 | 9.5 | 15 | 2.5 | 3.5 | 6 | - | - | 0.5 | 8 |
| 423141 | CFE.30 B-M3-p-M3x13 | 30.5 | 45.5 | M3 | 4 | M3 | 13 | 15 | 30 | 12.5 | 9.5 | 15 | 2.5 | - | - | 1 | 1 | - | 13 |
| 423151 | CFE.30 B-M3-CH-3 | 30.5 | 45.5 | M3 | 4 | - | - | 15 | 30 | 12.5 | 9.5 | 15 | 2.5 | 3.5 | 6 | 1 | - | 0.5 | 10 |
| 423161 | CFE.30 p-M3x13-CH-3 | 30.5 | 45.5 | - | - | M3 | 13 | 15 | 30 | 12.5 | 9.5 | 15 | 2.5 | 3.5 | 6 | - | 1 | 0.5 | 11 |
| 423211 | CFE.40 B-M4 | 40.5 | 59 | M4 | 5.5 | - | - | 20 | 40.4 | 16.5 | 12.5 | 20 | 4 | - | - | 4 | - | - | 26 |
| 423221 | CFE.40 p-M4x18 | 40.5 | 59 | - | - | M4 | 18 | 20 | 40.4 | 16.5 | 12.5 | 20 | 4 | - | - | - | 2 | - | 34 |
| 423231 | CFE.40 CH-4 | 40.5 | 59 | - | - | - | - | 20 | 40.4 | 16.5 | 12.5 | 20 | 4 | 4.5 | 7.5 | - | - | 1 | 19 |
| 423241 | CFE.40 B-M4-p-M4x18 | 40.5 | 59 | M4 | 5.5 | M4 | 18 | 20 | 40.4 | 16.5 | 12.5 | 20 | 4 | - | - | 4 | 2 | - | 30 |
| 423251 | CFE.40 B-M4-CH-4 | 40.5 | 59 | M4 | 5.5 | - | - | 20 | 40.4 | 16.5 | 12.5 | 20 | 4 | 4.5 | 7.5 | 4 | - | 1 | 21 |
| 423261 | CFE.40 p-M4x18-CH-4 | 40.5 | 59 | - | - | M4 | 18 | 20 | 40.4 | 16.5 | 12.5 | 20 | 4 | 4.5 | 7.5 | - | 2 | 1 | 26 |
| 423311 | CFE.48 B-M5 | 48.5 | 70 | M5 | 6.5 | - | - | 24 | 46 | 20 | 15 | 24 | 5 | - | - | 5 | - | - | 44 |
| 423321 | CFE.48 p-M5x17 | 48.5 | 70 | - | - | M5 | 17 | 24 | 46 | 20 | 15 | 24 | 5 | - | - | - | 5 | - | 58 |
| 423331 | CFE.48 CH-5 | 48.5 | 70 | - | - | - | - | 24 | 46 | 20 | 15 | 24 | 5 | 5.5 | 9 | - | - | 2 | 31 |
| 423341 | CFE.48 B-M5-p-M5x17 | 48.5 | 70 | M5 | 6.5 | M5 | 17 | 24 | 46 | 20 | 15 | 24 | 5 | - | - | 5 | 5 | - | 51 |
| 423351 | CFE.48 B-M5-CH-5 | 48.5 | 70 | M5 | 6.5 | - | - | 24 | 46 | 20 | 15 | 24 | 5 | 5.5 | 9 | 5 | - | 2 | 38 |
| 423361 | CFE.48 p-M5x17-CH-5 | 48.5 | 70 | - | - | M5 | 17 | 24 | 46 | 20 | 15 | 24 | 5 | 5.5 | 9 | - | 5 | 2 | 45 |
| 423411 | CFE.66 B-M6 | 66 | 97 | M6 | 10 | - | - | 33 | 63.7 | 27.5 | 21 | 33 | 6 | - | - | 5 | - | - | 103 |
| 423421 | CFE.66 p-M6x16 | 66 | 97 | - | - | M6 | 16 | 33 | 63.7 | 27.5 | 21 | 33 | 6 | - | - | - | 5 | - | 124 |
| 423431 | CFE.66 CH-6 | 66 | 97 | - | - | - | - | 33 | 63.7 | 27.5 | 21 | 33 | 6 | 6.5 | 10.5 | - | - | 5 | 77 |
| 423441 | CFE.66 B-M6-p-M6x16 | 66 | 97 | M6 | 10 | M6 | 16 | 33 | 63.7 | 27.5 | 21 | 33 | 6 | - | - | 5 | 5 | - | 115 |
| 423451 | CFE.66 B-M6-CH-6 | 66 | 97 | M6 | 10 | - | - | 33 | 63.7 | 27.5 | 21 | 33 | 6 | 6.5 | 10.5 | 5 | - | 5 | 90 |
| 423461 | CFE.66 p-M6x16-CH-6 | 66 | 97 | - | - | M6 | 16 | 33 | 63.7 | 27.5 | 21 | 33 | 6 | 6.5 | 10.5 | - | 5 | 5 | 100 |

Suggested tightening torque for assembly screws.

