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MATERIAL

Glass-fibre reinforced SUPER-polyamide based (PA) technopolymer.

COLOUR

- CFM.: black, matte finish.
- CFM-CLEAN: white similar to RAL 9002, matte finish.

ROTATING PIN

AISI 303 stainless steel.

STANDARD EXECUTIONS

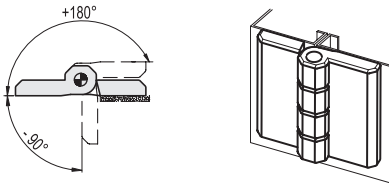
- **CFM-p**: nickel-plated steel threaded studs.
- **CFM-SH**: pass-through holes for countersunk head screws.
- **CFM-CH**: pass-through holes for cylindrical head screws with washer type UNI 6592.
- **CFM-p-SH**: nickel-plated steel threaded studs and pass-through holes for countersunk head screws.
- **CFM-p-CH**: nickel-plated steel threaded studs and pass-through holes for cylindrical head screws with UNI 6592 washer.
- **CFM.60-SL-CH**: pass-through slotted hole for shortened cylindrical head screws UNI 9327 which allow adjustment during clamping.

ROTATION ANGLE (APPROXIMATE VALUE)

Max 270° (-90° 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.

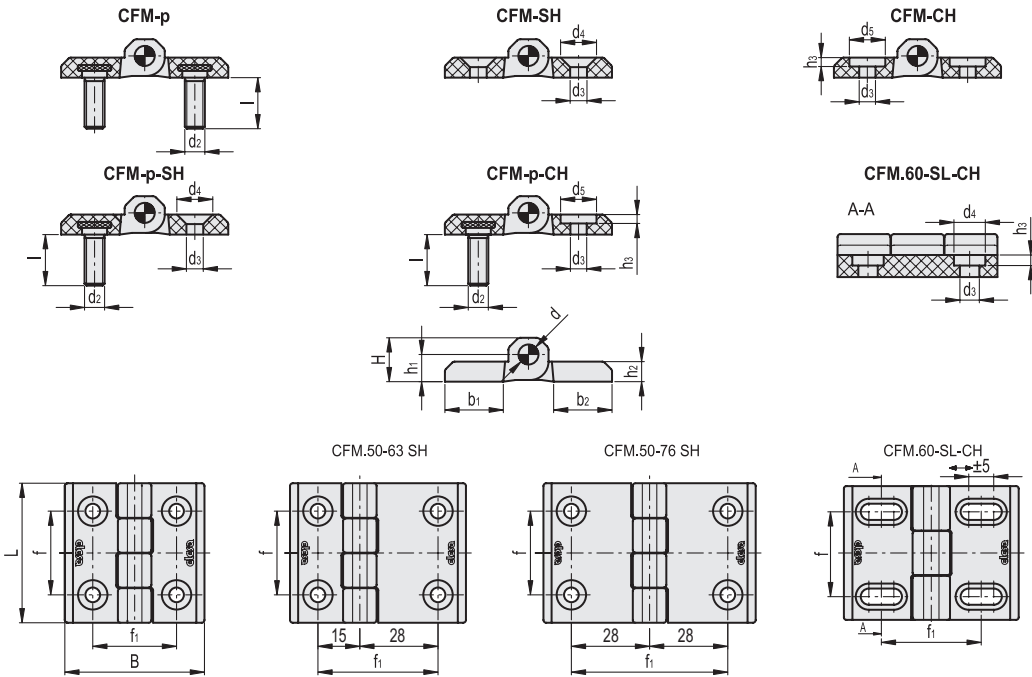
To choose the convenient type and the right number of hinges for your application, see the Guidelines (see page 1106).



| Conversion Table 1 mm = 0.039 inch | | | | | |
|------------------------------------|------|------|------|------|------|
| L | | d4 | | d5 | |
| mm | inch | mm | inch | mm | inch |
| 30 | 1.18 | 8,5 | 0.33 | 8,5 | 0.33 |
| 40 | 1.57 | 10,5 | 0.41 | 10,5 | 0.41 |
| 50 | 1.97 | 12,5 | 0.49 | 12,5 | 0.49 |
| 60 | 2.36 | 16,5 | 0.65 | 16,5 | 0.65 |

| | AXIAL STRESS | RADIAL STRESS | 90° ANGLED STRESS |
|-----------------------|---------------------------------|---------------------------------|----------------------------------|
| Resistance tests | | | |
| Description | Max limit static load Sa [N] | Max limit static load Sr [N] | Max limit static load S90 [N] |
| CFM.30 SH-4 | 1400 | 1700 | 1000 |
| CFM.30 CH-4 | 1300 | 1700 | 850 |
| CFM.40 p-M5x12 | 2000 | 1900 | 1000 |
| CFM.40 SH-5 | 1900 | 1900 | 1280 |
| CFM.40 CH-5 | 1900 | 1600 | 1000 |
| CFM.40 p-M5x12-SH-5 | 1900 | 1900 | 1000 |
| CFM.40 p-M5x12-CH-5 | 1900 | 1600 | 1000 |
| CFM.50 p-M6x12 | 2340 | 2560 | 2100 |
| CFM.50 SH-6 | 2630 | 2400 | 1720 |
| CFM.50-63 SH-6 | 800 | 1600 | 1000 |
| CFM.50-76 SH-6 | 600 | 1500 | 1000 |
| CFM.50 CH-6 | 2860 | 2410 | 1360 |
| CFM.50 p-M6x12-SH-6 | 2340 | 2400 | 1720 |
| CFM.50 p-M6x12-CH-6 | 2340 | 2410 | 1360 |
| CFM.60 p-M8x14.5 | 3000 | 3940 | 2130 |
| CFM.60 SH-8 | 3320 | 2960 | 3070 |
| CFM.60 CH-8 | 3440 | 2810 | 2170 |
| CFM.60 p-M8x14.5-SH-8 | 3000 | 2960 | 2130 |
| CFM.60 p-M8x14.5-CH-8 | 3000 | 2810 | 2130 |
| CFM.60-45-SH-6 | 2920 | 3010 | 1310 |
| CFM.60-SL-CH-6 | 960 | 1200 | 1360 |

The max static load is the value above which the material may break thus prejudicing the hinge functionality. Obviously, a suitable factor, according to the importance and the safety level of the specific application must be applied to this value. Valid values also for CFM-CLEAN.



CFM.

METRIC

| Code | Description | L | B | d2 | I | f1 ±0.25 | f2 ±0.25 | H | h1 | h2 | h3 | b1 | b2 | d | d3 | d4 | d5 | C [Nm] p# | C [Nm] SH/CH# | |
|--------|-----------------------|----|----|----|------|----------|----------|------|-----|-----|-----|------|------|-----|-----|------|------|-----------|---------------|-----|
| 425411 | CFM.30-SH-4 | 30 | 30 | - | - | 18 | 18 | 7 | 4 | 3.5 | - | 10.5 | 10.5 | 2.5 | 4.5 | 8.5 | - | - | 3 | 11 |
| 425412 | CFM.30-CH-4 | 30 | 30 | - | - | 18 | 18 | 7 | 4 | 3.5 | 1.3 | 10.5 | 10.5 | 2.5 | 4.5 | - | 8.5 | - | 3 | 11 |
| 425521 | CFM.40-p-M5x12 | 40 | 40 | M5 | 12 | 25 | 25 | 9 | 5.5 | 5 | - | 14 | 14 | 4 | - | - | - | 5 | - | 26 |
| 425511 | CFM.40-SH-5 | 40 | 40 | - | - | 25 | 25 | 9 | 5.5 | 5 | - | 14 | 14 | 4 | 5.5 | 10.5 | - | - | 3 | 14 |
| 425512 | CFM.40-CH-5 | 40 | 40 | - | - | 25 | 25 | 9 | 5.5 | 5 | 1.7 | 14 | 14 | 4 | 5.5 | - | 10.5 | - | 5 | 14 |
| 425531 | CFM.40-p-M5x12-SH-5 | 40 | 40 | M5 | 12 | 25 | 25 | 9 | 5.5 | 5 | - | 14 | 14 | 4 | 5.5 | 10.5 | - | 5 | 3 | 20 |
| 425532 | CFM.40-p-M5x12-CH-5 | 40 | 40 | M5 | 12 | 25 | 25 | 9 | 5.5 | 5 | 1.7 | 14 | 14 | 4 | 5.5 | - | 10.5 | 5 | 5 | 20 |
| 425621 | CFM.50-p-M6x12 | 50 | 50 | M6 | 12 | 30 | 30 | 11.5 | 6.5 | 6 | - | 18 | 18 | 6 | - | - | - | 5 | - | 50 |
| 425611 | CFM.50-SH-6 | 50 | 50 | - | - | 30 | 30 | 11.5 | 6.5 | 6 | - | 18 | 18 | 6 | 6.5 | 12.5 | - | - | 5 | 30 |
| 425851 | CFM.50-63-SH-6 | 50 | 63 | - | - | 30 | 43 | 11.5 | 6.5 | 6 | - | 18 | 31 | 6 | 6.5 | 12.5 | - | - | 5 | 37 |
| 425856 | CFM.50-76-SH-6 | 50 | 76 | - | - | 30 | 56 | 11.5 | 6.5 | 6 | - | 31 | 31 | 6 | 6.5 | 12.5 | - | - | 5 | 42 |
| 425612 | CFM.50-CH-6 | 50 | 50 | - | - | 30 | 30 | 11.5 | 6.5 | 6 | 3 | 18 | 18 | 6 | 6.5 | - | 12.5 | - | 5 | 30 |
| 425631 | CFM.50-p-M6x12-SH-6 | 50 | 50 | M6 | 12 | 30 | 30 | 11.5 | 6.5 | 6 | - | 18 | 18 | 6 | 6.5 | 12.5 | - | 5 | 5 | 40 |
| 425632 | CFM.50-p-M6x12-CH-6 | 50 | 50 | M6 | 12 | 30 | 30 | 11.5 | 6.5 | 6 | 3 | 18 | 18 | 6 | 6.5 | - | 12.5 | 5 | 5 | 40 |
| 425721 | CFM.60-p-M8x14.5 | 60 | 60 | M8 | 14.5 | 36 | 36 | 15 | 8.5 | 8 | - | 21 | 21 | 8 | - | - | - | 5 | - | 101 |
| 425711 | CFM.60-SH-8 | 60 | 60 | - | - | 36 | 36 | 15 | 8.5 | 8 | - | 21 | 21 | 8 | 8.5 | 16.5 | - | - | 5 | 57 |
| 425712 | CFM.60-CH-8 | 60 | 60 | - | - | 36 | 36 | 15 | 8.5 | 8 | 4 | 21 | 21 | 8 | 8.5 | - | 16.5 | - | 5 | 57 |
| 425731 | CFM.60-p-M8x14.5-SH-8 | 60 | 60 | M8 | 14.5 | 36 | 36 | 15 | 8.5 | 8 | - | 21 | 21 | 8 | 8.5 | 16.5 | - | 5 | 5 | 79 |
| 425732 | CFM.60-p-M8x14.5-CH-8 | 60 | 60 | M8 | 14.5 | 36 | 36 | 15 | 8.5 | 8 | 4 | 21 | 21 | 8 | 8.5 | - | 16.5 | 5 | 5 | 79 |
| 425812 | CFM.60-45-SH-6 | 60 | 70 | - | - | 34 | 45 | 14.5 | 8 | 7.5 | - | 26 | 26 | 8 | 6.5 | 12.5 | - | - | 5 | 62 |
| 425822 | CFM.60-SL-CH-6 | 60 | 70 | - | - | 34 | 40 | 14.5 | 8 | 7.5 | 4 | 26 | 26 | 8 | 6.5 | 10.5 | - | - | 4 | 61 |

CFM-CLEAN

| Code | Description | L | B | f1 ±0.25 | f2 ±0.25 | H | h1 | h2 | b1 | b2 | d | d3 | d4 | C# [Nm] | |
|--------|-------------------|----|----|----------|----------|------|-----|-----|------|------|-----|-----|------|---------|----|
| 425441 | CFM.30-SH-4-CLEAN | 30 | 30 | 18 | 18 | 7 | 4 | 3.5 | 10.5 | 10.5 | 2.5 | 4.5 | 8.5 | 3 | 11 |
| 425541 | CFM.40-SH-5-CLEAN | 40 | 40 | 25 | 25 | 9 | 5.5 | 5 | 14 | 14 | 4 | 5.5 | 10.5 | 3 | 14 |
| 425641 | CFM.50-SH-6-CLEAN | 50 | 50 | 30 | 30 | 11.5 | 6.5 | 6 | 18 | 18 | 6 | 6.5 | 12.5 | 5 | 30 |
| 425741 | CFM.60-SH-8-CLEAN | 60 | 60 | 36 | 36 | 15 | 8.5 | 8 | 21 | 21 | 8 | 8.5 | 16.5 | 5 | 57 |

Suggested tightening torque for assembly screws.

