

**Basi statiche di bloccaggio, pneumatiche-idrauliche, autocentranti - CFB**  
**Clamping force blocks, pneumatic-hydraulic, centric clamping - CFB**  
**Kraftspannblock, pneumatisch-hydraulisch, zentrisch spannend - CFB**  
**Étaux de serrage, pneumatique-hydraulique, autocentres - CFB**



### Dati tecnici

- Pressione d'esercizio: 9 bar con aria (6 bar per CFB 250) max 60 bar con olio
- Precisione di reperibilità: CFB 66... 100 0.01 mm  
CFB 160...200 0.02 mm  
CFB 250 0.03 mm su 100 cicli
- Temperatura d'esercizio: da 5°C a 60°C
- Sistema di funzionamento: cinematica a piani inclinati con guida forzata e trasmissione della forza applicata alle superfici
- Corsa totale dei carrellini da 4 a 30 mm
- Applicazione tramite: fori per spine H7
- Materiale corpo: acciaio trattato
- Materiale parti funzionali: acciaio trattato
- Funzionamento: olio filtrato (10µm) viscosità 46 mm<sup>2</sup>/s a 40° ISO VG; max 60° aria compressa filtrata (10µm) e lubrificata
- attacchi: laterali-base
- manutenzione: lubrificare 100.000 cicli con presa di manipolazione ogni 5.000 cicli per presa in lavorazione

### Technische Daten

- Betriebsdruck: max 9 bar (6 bar bei CFB 250) in der pneumatischen Version; max 60 bar in der hydraulischen Version
- Wiederholgenauigkeit: CFB 66... 100 0.01 mm  
CFB 160...200 0.02 mm  
CFB 250 0.03 mm über Schaltspiele
- Betriebstemperaturbereich: von 5°C bis 60° C
- Wirkprinzip: Keilhakenprinzip zwangsgeführt über schräge Ebene
- Parallel Öffnen/Schliessen, Gesamthub der Schlitten 2 bis 30 mm
- Ausrichten der Gehäuse durch Verstiftung H7
- Gehäusematerial: aus gehärtetem Stahl
- Funktionsteile: aus gehärtetem Stahl
- Betätigung: hydraulisch über gefiltertes Öl (10µm), Viskosität 46 mm<sup>2</sup>/s bei 40°C ISO VG; maximal 60°C, pneumatisch über gefilterte Druckluft (10µm) und geölt
- Schmierintervall bei Einsatz auf Zerspanungsmaschine alle 5.000 Schaltspiele bei Handhabungsprozessen alle 100.000 Schaltspiele

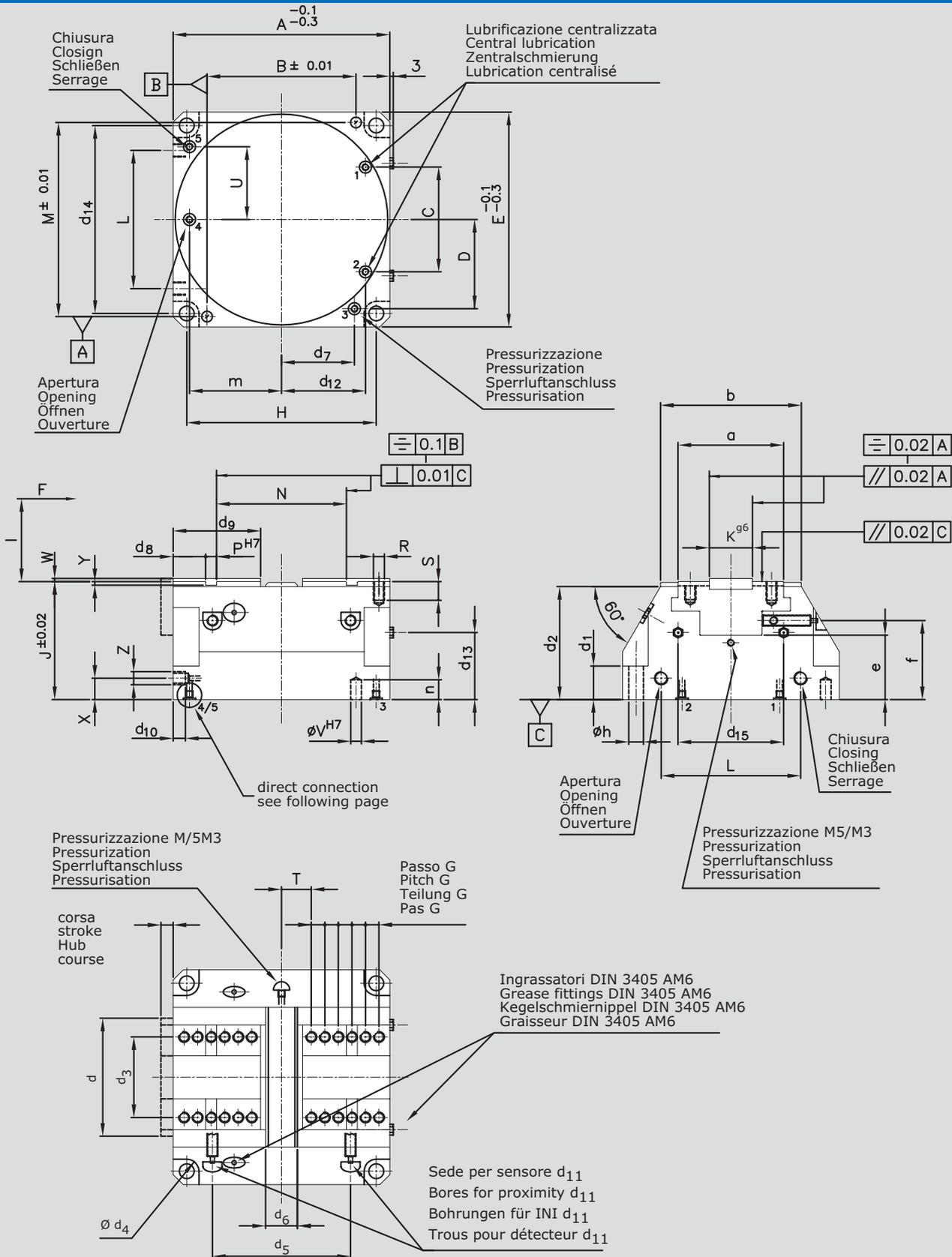
### Technical data

- Operating pressure range: 9 bar with air (6 bar per CFB 250) max 60 bar with oil
- Repeatability accuracy: CFB 66... 100 0.01 mm  
CFB 160...200 0.02 mm  
CFB 250 0.03 mm over 100 cycles
- Operating temperature range: from 5°C to 60° C
- Operating principle: wedge and piston design with mechanically restricted guidance
- Stroke range from 4 to 30 mm
- Mounting: by means of bores for H7 pins
- Housing material: hardened steel
- Material for functional parts: hardened steel
- Actuation: filtered hydraulic oil (10µm) viscosity 46 mm<sup>2</sup>/s at 40° ISO VG; max 60° compressed air (10µm) and lubricated
- Connections: sides-base
- Maintenance: relubricated every 10.000 cycles when used in handling. When used in machining centers for tool clamping, lubricate every 5.000 cycles

### Données techniques

- Pressione de service: max 9 bar en pneumatique aria (6 bar pour CFB 250) max 60 bar en hydraulique
- Précision de répétabilité: CFB 66... 100 0.01 mm  
CFB 160...200 0.02 mm  
CFB 250 0.03 mm sur 100 cycles
- Température de service: de 5°C à 60° C
- Système de fonctionnement: piston et noix de commande à rampe
- Course parallèle des mors élevée de 2 à 30 mm
- Centrage par: trous pour goupilles H7
- Matière du corps: en Acier trempé
- Matière des pièces fonctionnelles: en Acier trempé
- Fonctionnement: huile filtré (10µm) viscosité 46 mm<sup>2</sup>/s à 40° ISO VG; max 60° air filtré (10µm) et lubrifié
- Conduites: sur le coté - sur la base
- Maintenance: lubrification tous les 5.000 cycles avec serrage de pièces à usiner les 100.000 cycles avec serrage de manipulation

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## PNEUMATIC

| Type    | A   | B   | C   | D    | E   | G    | H   | L   | M   | P  | R   | S   | U    | V  | Z   | X  | Y   | W   | J    | K  | a   | b   |
|---------|-----|-----|-----|------|-----|------|-----|-----|-----|----|-----|-----|------|----|-----|----|-----|-----|------|----|-----|-----|
| CFB66   | 66  | 42  | 34  | 29.5 | 66  | 5x3  | 54  | 37  | 59  | 4  | M4  | 6.5 | 18.5 | 4  | M5  | 15 | 2.7 | 1.8 | 53   | 14 | 30  | 43  |
| CFB 100 | 102 | 64  | 50  | 45   | 102 | 7x4  | 80  | 63  | 90  | 6  | M6  | 9   | 31   | 6  | M5  | 20 | 2.7 | 1.8 | 71.5 | 20 | 47  | 66  |
| CFB 160 | 160 | 110 | 78  | 55   | 160 | 10x5 | 140 | 103 | 140 | 8  | M8  | 13  | 51.5 | 8  | 1/8 | 16 | 3.2 | 1.8 | 88.5 | 32 | 78  | 104 |
| CFB 200 | 200 | 130 | 106 | 65   | 200 | 10x7 | 164 | 128 | 186 | 8  | M8  | 13  | 64   | 8  | 1/8 | 18 | 4   | 2.3 | 93.5 | 40 | 102 | 140 |
| CFB 250 | 254 | 156 | 124 | 79   | 254 | 12x7 | 202 | 159 | 232 | 10 | M10 | 18  | 79.5 | 10 | 1/8 | 18 | 4   | 2.3 | 103  | 50 | 125 | 170 |

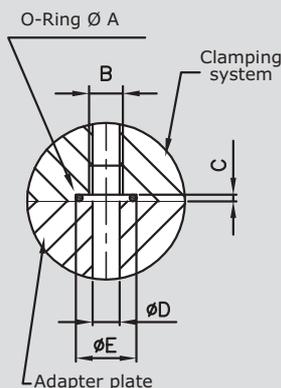
| Type    | d   | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | d <sub>6</sub> | d <sub>7</sub> | d <sub>9</sub> | d <sub>10</sub> | d <sub>11</sub> | d <sub>12</sub> | d <sub>13</sub> | d <sub>14</sub> | d <sub>15</sub> | e    | f    | Vers. 1 |      |                | Vers. 2 |     |                |
|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|------|---------|------|----------------|---------|-----|----------------|
|         |     |                |                |                |                |                |                |                |                |                 |                 |                 |                 |                 |                 |      |      | T       | N    | d <sub>8</sub> | T       | N   | d <sub>8</sub> |
| CFB66   | 38  | 26             | 49.5           | 24             | 11             | /              | 12             | 19.5           | 26.3           | 6               | /               | 23              | 16              | 54              | 34              | 30   | /    | 10.2    | 26.4 | 15.8           | /       | /   | /              |
| CFB 100 | 58  | 34             | 68             | 35             | 13.5           | 55             | 19             | 31             | 41             | 6               | M5              | 37              | 15              | 80              | 51              | 38   | 47.5 | 14.5    | 51   | 19.5           | 15      | 52  | 19             |
| CFB 160 | 91  | 25             | 84.8           | 60             | 18             | 102            | 24             | 70             | 67.5           | 9               | M8              | 62              | 49.5            | 140             | 78              | 47.5 | 58.5 | 18.8    | 89.6 | 27.2           | 19      | 90  | 27             |
| CFB 200 | 118 | 35             | 89.5           | 74             | 19             | 110            | 27             | 87             | 85.5           | 9               | M8              | 91.5            | 54              | 164             | 106             | 51   | 74   | 20      | 92   | 46             | 20      | 92  | 46             |
| CFB 250 | 142 | 45             | 98.8           | 90             | 19             | 150            | 35             | 109            | 108.5          | 9               | M8              | 119             | 58              | 202             | 124             | 55   | 81   | 32.5    | 103  | 65.5           | 25      | 112 | 61             |

| Tipo    | Type | Typ    | Type | h         | l      | m       | n    | Forza di serraggio a 9 bar (N) |      | Tempo circa (s)                     |   | Consumo aria per doppia corsa (cm <sup>3</sup> )       |     | Corsa per griffa (mm) |  | Massa morsa (kg) |  | Lungh. max griffe  |  |
|---------|------|--------|------|-----------|--------|---------|------|--------------------------------|------|-------------------------------------|---|--|-----|-----------------------|--|------------------|--|--------------------|--|
|         |      |        |      |           |        |         |      | Gripping force at 9 bar (N)    |      | Approx. time (sec.) opening closing |   | Air consumption for double stroke (cm <sup>3</sup> )   |     | Stroke for jaw (mm)   |  | Mass vice (kg)   |  | Max finger length  |  |
|         |      |        |      |           |        |         |      | Spannkraft bei 9 Bar (N)       |      | Schließzeit (sec.) Öffnen Schließen |   | Luftverbrauch pro Doppelhub (cm <sup>3</sup> )         |     | Hub Backe (mm)        |  | Masse (kg)       |  | Max Finger Länge   |  |
|         |      |        |      |           |        |         |      | Force de serrage 9 Bar (N)     |      | Temp environ (s) ouverture serrage  |   | Consommation air pour double course (cm <sup>3</sup> ) |     | Course par morse (mm) |  | Masse pince (kg) |  | Lungh. max. griffe |  |
| Vers 1  |      | Vers 2 |      | ouverture |        | serrage |      | Vers 1                         |      | Vers 2                              |   | Vers 1   |     | Vers 2                |  |                  |  |                    |  |
| CFB 66  | 6.5  | 10     | 25   | 7.5       | 4500   | /       | 0.1  | 0.1                            | 30   | 2                                   | / | 1.5  | 60  | /                     |  |                  |  |                    |  |
| CFB 100 | 8.5  | 16     | 31.5 | 12        | 7600   | 19000   | 0.2  | 0.2                            | 135  | 6                                   | 2 | 4.5  | 150 | 60                    |  |                  |  |                    |  |
| CFB 160 | 11   | 25     | 52   | 14        | 20000  | 46000   | 0.4  | 0.4                            | 500  | 8                                   | 3 | 14   | 200 | 60                    |  |                  |  |                    |  |
| CFB 200 | 13   | 32     | 66   | 14        | 21000  | 52000   | 0.85 | 0.85                           | 685  | 10                                  | 4 | 23   | 280 | 95                    |  |                  |  |                    |  |
| CFB 250 | 13   | 40     | 88.5 | 18        | 21000* | 55000*  | 1    | 1                              | 1420 | 15                                  | 5 | 35   | 500 | 145                   |  |                  |  |                    |  |

- La forza di serraggio è la somma aritmetica delle forze individuali delle griffe che si crea a "l" mm a 9 bar
  - The gripping force is the arithmetic sum of the individual forces created at the fingers at "l" distance at 9 bar
  - Die Greifkraft ist die arithmetische Summe der an den Greifbacken auftretenden Einzelkräfte im Abstand "l" mm bei 9 bar
  - La force de serrage est la somme arithmétique des forces individuelles des mors qui se forme à "l" mm à 9 bar
- \* **Forza di serraggio a 6 bar / Gripping force at 6 bar / Spannkraft bei 6 bar / Force de serrage à 6 bar.**

### Conessioni dirette senza tubi Hose-free direct connection

### Maße für schlauchlosen Direktanschluss Connexion directe sans tuyaux



| Type    | Hole 4 and 5<br>Funzionamento<br>Actuation<br>Betaetigung<br>Fontionnement |    |     |     |    | Hole 3<br>Pressurizzazione<br>Pressurization<br>Sperrluftanschluss<br>Pressurisation |    |     |     |     | Hole 1 and 2<br>Lubrificazione centralizzata<br>Central lubrication<br>Zentralschmierung<br>Lubrication centralisé |    |     |     |     |
|---------|--|----|-----|-----|----|--|----|-----|-----|-----|--|----|-----|-----|-----|
|         | A  | B  | C   | D   | E  | A  | B  | C   | D   | E   | A  | B  | C   | D   | E   |
| CFB 66  | Ø4x1   | M3 | 0.7 | 2.5 | 6  | Ø3.5x1   | M3 | 0.7 | 2.5 | 5.5 | Ø3.5x1   | M3 | 0.7 | 2.5 | 5.5 |
| CFB 100 | Ø6x1.5   | M5 | 1   | 4   | 9  | Ø5x1.5   | M4 | 1   | 3.5 | 8   | Ø5x1.5   | M4 | 1   | 3.5 | 8   |
| CFB 160 | Ø6x1.5   | M5 | 1   | 4   | 9  | Ø5x1.5   | M4 | 1   | 3.5 | 8   | Ø5x1.5   | M4 | 1   | 3.5 | 8   |
| CFB 200 | Ø7x1.5   | M6 | 1   | 5   | 10 | Ø6x1.5   | M5 | 1   | 4   | 9   | Ø6x1.5   | M5 | 1   | 4   | 9   |
| CFB 250 | Ø7x1.5   | M6 | 1   | 5   | 10 | Ø6x1.5   | M5 | 1   | 4   | 9   | Ø6x1.5   | M5 | 1   | 4   | 9   |



## HYDRAULIC

| Type    | A   | B   | C   | D    | E   | G    | H   | L  | M   | P  | R   | S   | U  | V  | Z   | X  | Y   | W   | J    | K  | a   | b   |
|---------|-----|-----|-----|------|-----|------|-----|----|-----|----|-----|-----|----|----|-----|----|-----|-----|------|----|-----|-----|
| CFB66   | 66  | 42  | 34  | 28   | 66  | 5x3  | 54  | 27 | 59  | 4  | M4  | 6.5 | 35 | 4  | 1/8 | 15 | 2.7 | 1.8 | 53   | 14 | 30  | 43  |
| CFB 100 | 102 | 64  | 51  | 44.5 | 102 | 7x4  | 80  | 34 | 90  | 6  | M6  | 9   | 34 | 6  | 1/8 | 20 | 2.7 | 1.8 | 71.5 | 20 | 47  | 66  |
| CFB 160 | 160 | 110 | 78  | 55   | 160 | 10x5 | 140 | 42 | 140 | 8  | M8  | 13  | 42 | 8  | 1/8 | 16 | 3.2 | 1.8 | 88.5 | 32 | 78  | 104 |
| CFB 200 | 200 | 130 | 106 | 65   | 200 | 10x7 | 164 | 70 | 186 | 8  | M8  | 13  | 70 | 8  | 1/8 | 18 | 4   | 2.3 | 93.5 | 40 | 102 | 140 |
| CFB 250 | 254 | 156 | 124 | 79   | 210 | 12x7 | 202 | 96 | 189 | 10 | M10 | 18  | 96 | 10 | 1/8 | 18 | 4   | 2.3 | 103  | 50 | 125 | 170 |

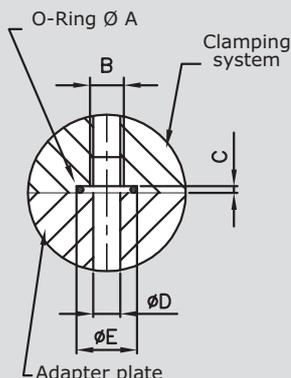
| Type    | d   | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | d <sub>6</sub> | d <sub>7</sub> | d <sub>9</sub> | d <sub>10</sub> | d <sub>11</sub> | d <sub>12</sub> | d <sub>13</sub> | d <sub>14</sub> | d <sub>15</sub> | e    | f    | Vers. 1 |      |                | Vers. 2 |    |                |
|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|------|---------|------|----------------|---------|----|----------------|
|         |     |                |                |                |                |                |                |                |                |                 |                 |                 |                 |                 |                 |      |      | T       | N    | d <sub>8</sub> | T       | N  | d <sub>8</sub> |
| CFB66   | 38  | 26             | 49.5           | 24             | 11             | /              | 12             | 19             | 26.3           | 8               | /               | 25              | 16              | 54              | 34              | 30   | /    | 10.2    | 26.4 | 15.8           | /       | /  | /              |
| CFB 100 | 58  | 34             | 68             | 35             | 13.5           | 55             | 19             | 31             | 41             | 8               | M5              | 37.2            | 15              | 80              | 51              | 38   | 47.5 | 14.5    | 51   | 19.5           | 15      | 52 | 19             |
| CFB 160 | 91  | 25             | 84.8           | 60             | 18             | 102            | 24             | 70             | 67.5           | 9               | M8              | 62              | 49.5            | 140             | 78              | 47.5 | 58.5 | 18.8    | 89.6 | 27.2           | 19      | 90 | 27             |
| CFB 200 | 118 | 35             | 89.5           | 74             | 19             | 110            | 27             | 87             | 85.5           | 9               | M8              | 91.5            | 54              | 164             | 106             | 51   | 74   | 20      | 92   | 46             | /       | /  | /              |
| CFB 250 | 142 | 45             | 98.8           | 90             | 19             | 150            | 35             | 109            | 108.5          | 9               | M8              | 119             | 58              | 189             | 124             | 55   | 81   | 32.5    | 103  | 65.5           | /       | /  | /              |

| Tipo    | Type | Typ | Type | Forza di serraggio a 60 bar (N)               |       | Tempo circa (s) apertura chiusura    |     | Consumo olio per doppia corsa (cm <sup>3</sup> )         | Corsa per griffa (mm)                 |    | Massa morsa (kg) | Lungh. max griffe                  |     |    |
|---------|------|-----|------|---|-------|--------------------------------------|-----|--|---------------------------------------|----|------------------|------------------------------------|-----|----|
|         |      |     |      | Gripping force at 60 bar (N)                  |       | Approx. time (sec.) opening closing  |     | Oil consumption for double stroke (cm <sup>3</sup> )     | Stroke for jaw (mm)                   |    | Mass vice (kg)   | Max finger length                  |     |    |
|         |      |     |      | Spannkraft bei 60 Bar (N)                     |       | Schließzeit (sec.) Öffnen Schließen  |     | Ölverbrauch pro Doppelhub (cm <sup>3</sup> )             | Hub pro Finger (mm)                   |    | Masse (kg)       | Max Finger Länge                   |     |    |
|         |      |     |      | Force de serrage à 60 bar (N) Vers 1   Vers 2 |       | Temps environ (s) ouverture  serrage |     | Consommation huile pour double course (cm <sup>3</sup> ) | Course par morse (mm) Vers 1   Vers 2 |    | Masse pince (kg) | Lungh. max. griffe Vers 1   Vers 2 |     |    |
| h       | l    | m   | n    |   |       |                                      |     |  |                                       |    |                  |                                    |     |    |
| CFB 66  | 6.5  | 10  | 25   | 7.5   | 4500  | /                                    | 0.5 | 0.5  | 10                                    | 2  | /                | 1.5                                | 60  | /  |
| CFB 100 | 8.5  | 16  | 40   | 12  | 8000  | 19000                                | 1   | 1  | 33                                    | 6  | 2                | 4.9                                | 150 | 60 |
| CFB 160 | 11   | 25  | 68   | 14  | 20000 | 46000                                | 1.5 | 1.5  | 105                                   | 8  | 3                | 14.5                               | 200 | 60 |
| CFB 200 | 13   | 32  | 88   | 14  | 50000 | /                                    | 2.3 | 2.3  | 240                                   | 10 | /                | 24                                 | 95  | /  |
| CFB 250 | 13   | 40  | 115  | 18  | 60000 | /                                    | 3   | 3  | 440                                   | 15 | /                | 35                                 | 140 | /  |

- La forza di serraggio è la somma aritmetica delle forze individuali delle griffe che si crea a "l" mm a 60 bar
- The gripping force is the arithmetic sum of the individual forces created at the fingers at "l" distance at 60 bar
- Die Greifkraft ist die arithmetische Summe der an den Greifbacken auftretenden Einzelkräfte im Abstand "l" mm bei 60 Bar
- La force de serrage est la somme arithmétique des forces individuelles des mors qui se forme à "l" mm à 60 bar

### Conessioni dirette senza tubi Hose-free direct connection

### Maße für schlauchlosen Direktanschluss Connexion directe sans tuyaux

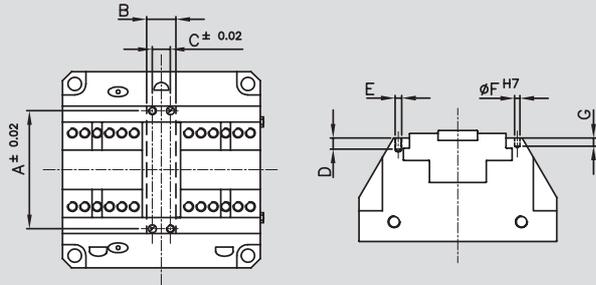


| Type    | Hole 4 & 5<br>Funzionamento<br>Actuation<br>Betaetigung<br>Fontionnement |    |   |     |    | Hole 3<br>Pressurizzazione<br>Pressurization<br>Sperrluftanschluss<br>Pressurisation |    |   |     |     | Hole 1 & 2<br>Lubrificazione centralizzata<br>Central lubrication<br>Zentralschmierung<br>Lubrication centralisé |    |   |     |     |
|---------|--|----|---|-----|----|--|----|---|-----|-----|--|----|---|-----|-----|
|         | A  | B  | C | D   | E  | A  | B  | C | D   | E   | A  | B  | C | D   | E   |
| CFB 66  | Ø5x1.5   | M4 | 1 | 3.5 | 8  | Ø2.5x1.5   | M3 | 1 | 2.5 | 5.5 | Ø2.5x1.5   | M3 | 1 | 2.5 | 5.5 |
| CFB 100 | Ø6x1.5   | M5 | 1 | 4   | 9  | Ø5x1.5   | M4 | 1 | 3.5 | 8   | Ø5x1.5   | M4 | 1 | 3.5 | 8   |
| CFB 160 | Ø7x1.5   | M6 | 1 | 5   | 10 | Ø5x1.5   | M4 | 1 | 3.5 | 8   | Ø5x1.5   | M4 | 1 | 3.5 | 8   |
| CFB 200 | Ø7x1.5   | M6 | 1 | 5   | 10 | Ø6x1.5   | M5 | 1 | 4   | 9   | Ø6x1.5   | M5 | 1 | 4   | 9   |
| CFB 250 | Ø7x1.5   | M6 | 1 | 5   | 10 | Ø6x1.5   | M5 | 1 | 4   | 9   | Ø6x1.5   | M5 | 1 | 4   | 9   |

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Centraggio - codice BC  
Centering - code BC

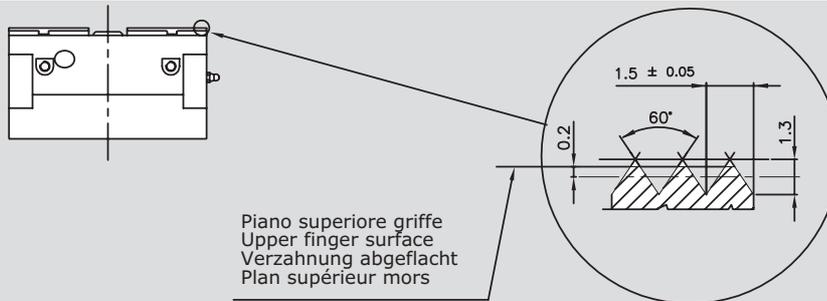
Zentrier - Code BC  
Centrage - code BC



| Code    | A    | B    | C  | D  | E    | F | G |
|---------|------|------|----|----|------|---|---|
| CFB 66  | 37.4 | 12   | 5  | 4  | M2.5 | 3 | 3 |
| CFB 100 | 58   | 19   | 9  | 5  | M3   | 4 | 4 |
| CFB 160 | 94   | 23.6 | 10 | 7  | M4   | 5 | 7 |
| CFB 200 | 126  | 27   | 12 | 9  | M5   | 5 | 7 |
| CFB 250 | 155  | 35   | 14 | 12 | M6   | 6 | 9 |

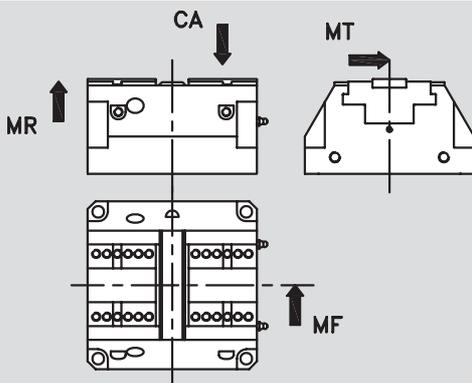
Versione con griffe dentate - Cod. D  
Version with serrated fingers - code D

Mit Spitzverzahnung - Version D  
Version à morse striées - code D



Dati di carico  
Load data

Lastdaten  
Données de charge



| Type    | CA (N) | MR (Nm) | MF (Nm) | MT (Nm) |
|---------|--------|---------|---------|---------|
| CFB 66  | 500    | 25      | 25      | 60      |
| CFB 100 | 2500   | 70      | 120     | 140     |
| CFB 160 | 18000  | 100     | 250     | 200     |
| CFB 200 | 22000  | 120     | 250     | 240     |
| CFB 250 | 24500  | 140     | 250     | 270     |

Esempio d'ordine  
Ordering data

Bestellbeispiel  
Exemple de commande

| Tipo    | Versione 1 o 2   | Indicare PN per vers. pneumatica e ID per vers. idraulica   | Boccole per sensore indicare cod. S | Per centraggio indicare cod. BC | Griffe dentate cod. D                 |
|---------|------------------|---|-------------------------------------|---------------------------------|---------------------------------------|
| Type    | Version 1 or 2   | Indicate for pneumatic PN and for hydraulic ID              | Bush for sensor indicate code S     | For centering indicate BC       | Serrated fingers code D               |
| Typ     | Version 1 oder 2 | Pneumatische Ausf. Kennung N, hydraulische Ausf. Kennung ID | Mit Hubfrage Ausführung S           | Mit Zentrier Ausführung BC      | Mit spitzverzahnung Ausführung Code D |
| Type    | Version 1 ou 2   | Indiquer pour pneumatique PN et hydraulique ID              | Pour douilles signaler code S       | Pour centrage signaler code BC  | Morses striées code D                 |
| CFB 160 | C1               | PN  | S                                   | BC                              | D                                     |