



# CALETTATORI - DATI TECNICI LOCKING ASSEMBLIES - TECHNICAL DATA

**Calcolo del minimo diametro esterno mozzo (DM)**  
Calculation of the minimum outside diameter of hub (DM)

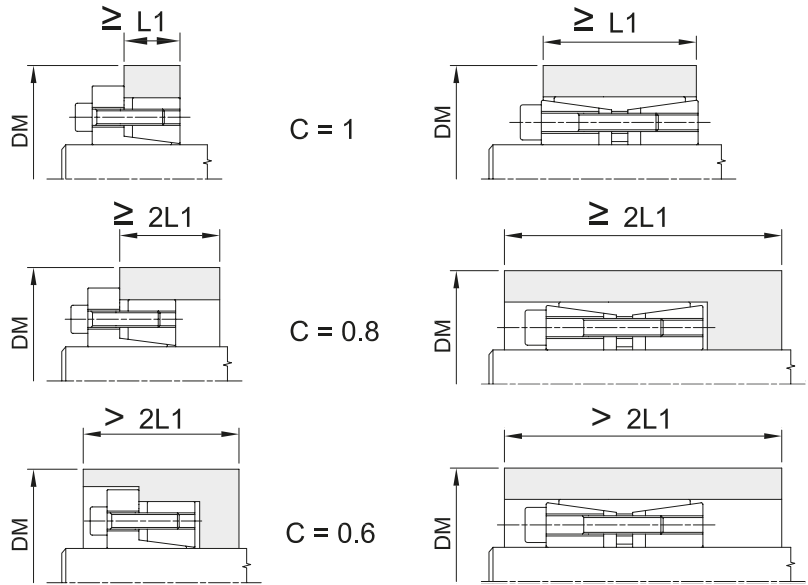
$$DM \geq D \cdot K$$

**D = diametro esterno calettatore (mm)**  
outside diameter of locking assemle (mm)  
**K = coefficiente (vedi tabella)**  
coefficient (see table)

**Per il calcolo del valore K, non riportato in tabella applicare la seguente formula:**  
To calculate the "K" value not shown in the table, use the following formula:

$$K = \sqrt{\frac{\sigma_{0,2} + (C \cdot PN)}{\sigma_{0,2} - (C \cdot PN)}} \text{ (mm)}$$

$\sigma_{0,2}$  = **carico di snervamento del materiale (N/mm<sup>2</sup>)**  
yield strength of the material (N/mm<sup>2</sup>)  
**C = fattore in funzione del tipo di applicazione**  
factor depending on the type of the application  
**PN = pressione superficiale del mozzo**  
surface pressure of the hub



**TABELLA DEL COEFFICIENTE "K" - COEFFICIENT "K" TABLE**

|  |       |                              |                             |                          |                          |                         |  |
|--|-------|------------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|--|
|  | GG-20 | GG-30<br>GTS-35<br>ALSi1MgMn | GGG-38<br>GS-400<br>St.42-3 | GGG-50<br>GS-500<br>C-40 | GGG-60<br>GS-600<br>C-45 | GGG-70<br>GS-70<br>C-60 |  |
|--|-------|------------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|--|

valori indicativi per il carico di snervamento  $\sigma_{0,2}$  in N/mm<sup>2</sup>

| pn<br>N/mm <sup>2</sup> | 150  |      |      | 200  |      |      | 250  |      |      | 300  |      |      | 350  |      |      | 400  |      |      | 450  |      |      | 600  |      |      |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                         | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    | 0,6  | 0,8  | 1    |
| 60                      | 1,28 | 1,39 | 1,53 | 1,20 | 1,28 | 1,36 | 1,16 | 1,21 | 1,28 | 1,13 | 1,18 | 1,22 | 1,11 | 1,15 | 1,19 | 1,09 | 1,13 | 1,16 | 1,08 | 1,11 | 1,14 | 1,06 | 1,08 | 1,11 |
| 65                      | 1,30 | 1,44 | 1,59 | 1,22 | 1,30 | 1,40 | 1,17 | 1,24 | 1,30 | 1,14 | 1,19 | 1,25 | 1,12 | 1,16 | 1,21 | 1,10 | 1,14 | 1,18 | 1,09 | 1,12 | 1,16 | 1,07 | 1,09 | 1,11 |
| 70                      | 1,33 | 1,48 | 1,66 | 1,24 | 1,33 | 1,44 | 1,18 | 1,26 | 1,33 | 1,15 | 1,21 | 1,27 | 1,13 | 1,18 | 1,22 | 1,11 | 1,15 | 1,19 | 1,10 | 1,13 | 1,17 | 1,07 | 1,10 | 1,12 |
| 75                      | 1,36 | 1,53 | 1,73 | 1,26 | 1,36 | 1,48 | 1,20 | 1,28 | 1,36 | 1,16 | 1,22 | 1,29 | 1,14 | 1,19 | 1,24 | 1,12 | 1,16 | 1,21 | 1,11 | 1,14 | 1,18 | 1,08 | 1,11 | 1,13 |
| 80                      | 1,39 | 1,58 | 1,81 | 1,28 | 1,39 | 1,53 | 1,21 | 1,30 | 1,39 | 1,18 | 1,24 | 1,31 | 1,15 | 1,20 | 1,26 | 1,13 | 1,18 | 1,22 | 1,11 | 1,15 | 1,20 | 1,08 | 1,11 | 1,14 |
| 85                      | 1,42 | 1,63 | 1,90 | 1,30 | 1,42 | 1,57 | 1,23 | 1,32 | 1,42 | 1,19 | 1,26 | 1,34 | 1,16 | 1,22 | 1,28 | 1,14 | 1,19 | 1,24 | 1,12 | 1,16 | 1,21 | 1,09 | 1,12 | 1,15 |
| 90                      | 1,46 | 1,69 | 2,00 | 1,32 | 1,46 | 1,62 | 1,25 | 1,34 | 1,46 | 1,20 | 1,28 | 1,36 | 1,17 | 1,23 | 1,30 | 1,15 | 1,20 | 1,26 | 1,13 | 1,18 | 1,22 | 1,09 | 1,13 | 1,16 |
| 95                      | 1,49 | 1,75 | 2,11 | 1,34 | 1,49 | 1,68 | 1,26 | 1,37 | 1,49 | 1,21 | 1,30 | 1,39 | 1,18 | 1,25 | 1,32 | 1,15 | 1,21 | 1,27 | 1,14 | 1,19 | 1,24 | 1,10 | 1,14 | 1,17 |
| 100                     | 1,53 | 1,81 | 2,24 | 1,36 | 1,53 | 1,73 | 1,28 | 1,39 | 1,53 | 1,22 | 1,31 | 1,41 | 1,19 | 1,26 | 1,34 | 1,16 | 1,22 | 1,29 | 1,14 | 1,20 | 1,25 | 1,11 | 1,14 | 1,18 |
| 105                     | 1,56 | 1,88 | 2,38 | 1,39 | 1,56 | 1,79 | 1,29 | 1,42 | 1,56 | 1,24 | 1,23 | 1,44 | 1,20 | 1,28 | 1,36 | 1,17 | 1,24 | 1,31 | 1,15 | 1,21 | 1,27 | 1,11 | 1,15 | 1,19 |
| 110                     | 1,60 | 1,96 | 2,55 | 1,41 | 1,60 | 1,86 | 1,31 | 1,44 | 1,60 | 1,25 | 1,35 | 1,47 | 1,21 | 1,29 | 1,38 | 1,18 | 1,25 | 1,33 | 1,16 | 1,22 | 1,28 | 1,12 | 1,16 | 1,20 |
| 115                     | 1,64 | 2,04 | 2,75 | 1,43 | 1,64 | 1,93 | 1,33 | 1,47 | 1,64 | 1,26 | 1,37 | 1,50 | 1,22 | 1,31 | 1,41 | 1,19 | 1,26 | 1,34 | 1,17 | 1,23 | 1,30 | 1,12 | 1,17 | 1,21 |
| 120                     | 1,69 | 2,13 | 3,00 | 1,46 | 1,69 | 2,00 | 1,34 | 1,50 | 1,69 | 1,28 | 1,39 | 1,53 | 1,23 | 1,33 | 1,43 | 1,20 | 1,28 | 1,36 | 1,18 | 1,24 | 1,31 | 1,13 | 1,18 | 1,22 |
| 125                     | 1,73 | 2,24 | 3,32 | 1,48 | 1,73 | 2,08 | 1,36 | 1,53 | 1,73 | 1,29 | 1,41 | 1,56 | 1,24 | 1,34 | 1,45 | 1,21 | 1,29 | 1,38 | 1,18 | 1,25 | 1,33 | 1,13 | 1,18 | 1,24 |
| 130                     | 1,78 | 2,35 | 3,74 | 1,51 | 1,78 | 2,17 | 1,38 | 1,56 | 1,78 | 1,30 | 1,44 | 1,59 | 1,25 | 1,36 | 1,48 | 1,22 | 1,30 | 1,40 | 1,19 | 1,27 | 1,35 | 1,14 | 1,19 | 1,25 |
| 135                     | 1,83 | 2,48 | 4,36 | 1,54 | 1,83 | 2,27 | 1,40 | 1,59 | 1,83 | 1,32 | 1,46 | 1,62 | 1,27 | 1,38 | 1,50 | 1,23 | 1,32 | 1,42 | 1,20 | 1,28 | 1,36 | 1,15 | 1,20 | 1,26 |
| 140                     | 1,88 | 2,63 | 5,39 | 1,56 | 1,88 | 2,38 | 1,42 | 1,62 | 1,88 | 1,33 | 1,48 | 1,66 | 1,28 | 1,39 | 1,53 | 1,24 | 1,33 | 1,44 | 1,21 | 1,29 | 1,38 | 1,15 | 1,21 | 1,27 |
| 145                     | 1,94 | 2,80 | 7,68 | 1,59 | 1,94 | 2,50 | 1,44 | 1,65 | 1,94 | 1,35 | 1,50 | 1,69 | 1,29 | 1,41 | 1,55 | 1,25 | 1,35 | 1,46 | 1,22 | 1,30 | 1,40 | 1,16 | 1,22 | 1,28 |
| 150                     | 2,00 | 3,00 |      | 1,62 | 2,00 | 2,65 | 1,46 | 1,69 | 2,00 | 1,36 | 1,53 | 1,73 | 1,30 | 1,43 | 1,58 | 1,26 | 1,36 | 1,48 | 1,22 | 1,31 | 1,41 | 1,16 | 1,22 | 1,29 |
| 155                     | 2,06 | 3,25 |      | 1,65 | 2,06 | 2,81 | 1,48 | 1,72 | 2,06 | 1,38 | 1,55 | 1,77 | 1,31 | 1,45 | 1,61 | 1,27 | 1,38 | 1,51 | 1,23 | 1,33 | 1,43 | 1,17 | 1,23 | 1,30 |
| 160                     | 2,13 | 3,55 |      | 1,69 | 2,13 | 3,00 | 1,50 | 1,76 | 2,13 | 1,39 | 1,58 | 1,81 | 1,33 | 1,47 | 1,64 | 1,28 | 1,39 | 1,53 | 1,24 | 1,34 | 1,45 | 1,18 | 1,24 | 1,31 |
| 165                     | 2,21 | 3,96 |      | 1,72 | 2,21 | 3,23 | 1,52 | 1,80 | 2,21 | 1,41 | 1,60 | 1,86 | 1,34 | 1,49 | 1,67 | 1,29 | 1,41 | 1,55 | 1,25 | 1,35 | 1,47 | 1,18 | 1,25 | 1,33 |
| 170                     | 2,29 | 4,52 |      | 1,76 | 2,29 | 3,51 | 1,54 | 1,84 | 2,29 | 1,42 | 1,63 | 1,90 | 1,35 | 1,51 | 1,70 | 1,30 | 1,42 | 1,57 | 1,26 | 1,37 | 1,49 | 1,19 | 1,26 | 1,34 |
| 180                     | 2,40 | 7,00 |      | 1,83 | 2,48 | 4,36 | 1,59 | 1,93 | 2,48 | 1,46 | 1,69 | 2,00 | 1,38 | 1,55 | 1,77 | 1,32 | 1,46 | 1,62 | 1,28 | 1,39 | 1,53 | 1,20 | 1,28 | 1,36 |
| 190                     | 2,71 |      |      | 1,91 | 2,71 | 6,24 | 1,64 | 2,03 | 2,71 | 1,49 | 1,75 | 2,11 | 1,40 | 1,59 | 1,84 | 1,34 | 1,49 | 1,68 | 1,30 | 1,42 | 1,57 | 1,21 | 1,30 | 1,39 |
| 200                     | 3,00 |      |      | 2,00 | 3,00 |      | 1,69 | 2,13 | 3,00 | 1,53 | 1,81 | 2,24 | 1,43 | 1,64 | 1,91 | 1,36 | 1,53 | 1,73 | 1,31 | 1,45 | 1,61 | 1,22 | 1,31 | 1,41 |
| 210                     | 3,39 |      |      | 2,10 | 3,39 |      | 1,74 | 2,26 | 3,39 | 1,56 | 1,88 | 2,38 | 1,46 | 1,69 | 2,00 | 1,39 | 1,56 | 1,79 | 1,33 | 1,48 | 1,66 | 1,24 | 1,33 | 1,44 |
| 220                     | 3,96 |      |      | 2,21 | 3,96 |      | 1,80 | 2,40 | 3,96 | 1,60 | 1,96 | 2,55 | 1,49 | 1,74 | 2,09 | 1,41 | 1,60 | 1,86 | 1,35 | 1,51 | 1,71 | 1,25 | 1,35 | 1,47 |
| 230                     | 4,90 |      |      | 2,33 | 4,90 |      | 1,86 | 2,56 | 4,90 | 1,64 | 2,04 | 2,75 | 1,52 | 1,79 | 2,20 | 1,43 | 1,64 | 1,93 | 1,37 | 1,54 | 1,76 | 1,26 | 1,37 | 1,50 |
| 240                     | 7,00 |      |      | 2,48 | 7,00 |      | 1,93 | 2,76 | 7,00 | 1,69 | 2,13 | 3,00 | 1,55 | 1,85 | 2,32 | 1,46 | 1,69 | 2,00 | 1,39 | 1,58 | 1,81 | 1,28 | 1,39 | 1,53 |
| 250                     |      |      |      | 2,65 |      |      | 2,00 | 3,00 |      | 1,73 | 2,24 | 3,32 | 1,58 | 1,91 | 2,45 | 1,48 | 1,73 | 2,08 | 1,41 | 1,61 | 1,87 | 1,29 | 1,41 | 1,56 |
| 300                     |      |      |      | 4,36 |      |      | 2,48 | 7,00 |      | 2,00 | 3,00 |      | 1,77 | 2,32 | 3,61 | 1,62 | 2,00 | 2,65 | 1,53 | 1,81 | 2,24 | 1,36 | 1,53 | 1,73 |



# CALETTATORI NON AUTOCENTRANTI "BK 45" LOCKING ASSEMBLIES NOT SELF-CENTERING "BK 45"

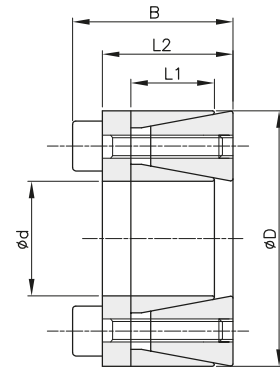
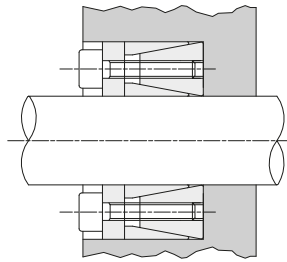
## Non Autocentrante

Momenti torcenti medio bassi

Tolleranze: albero h8 - mozzo H8

Superfici di contatto con rugosità:  $R_a$  max 16  $\mu\text{m}$

Montaggio e smontaggio rapido



| d x D<br>mm | codice      | L1<br>mm | L2<br>mm | B<br>mm | momento<br>torcente<br>Mt<br>Nm | forza<br>assiale<br>F ass.<br>KN | pressione<br>superficiale         |                                  | viti di serraggio     |                                    |      | Kg.  |
|-------------|-------------|----------|----------|---------|---------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------|------------------------------------|------|------|
|             |             |          |          |         |                                 |                                  | albero<br>pw<br>N/mm <sup>2</sup> | mozzo<br>pn<br>N/mm <sup>2</sup> | DIN 912<br>12,9<br>N° | coppia di<br>serraggio<br>Ms<br>Nm | tipo |      |
| 18 x 40     | BK045018040 | 12       | 18,5     | 24,5    | 190                             | 21,0                             | 260                               | 120                              | 6                     | M6x16                              | 17   | 0,20 |
| 19 x 41     | BK045019041 | 12       | 18,5     | 24,5    | 210                             | 22,0                             | 260                               | 120                              | 6                     | M6x16                              | 17   | 0,25 |
| 20 x 42     | BK045020042 | 12       | 18,5     | 24,5    | 240                             | 24,0                             | 250                               | 120                              | 6                     | M6x16                              | 17   | 0,24 |
| 24 x 46     | BK045024046 | 12       | 18,5     | 24,5    | 290                             | 24,0                             | 250                               | 120                              | 6                     | M6x16                              | 17   | 0,25 |
| 25 x 47     | BK045025047 | 12       | 18,5     | 24,5    | 330                             | 26,0                             | 230                               | 120                              | 8                     | M6x16                              | 17   | 0,25 |
| 28 x 50     | BK045028050 | 12       | 18,5     | 24,5    | 370                             | 26,0                             | 220                               | 120                              | 8                     | M6x16                              | 17   | 0,30 |
| 30 x 52     | BK045030052 | 12       | 18,5     | 24,5    | 430                             | 28,0                             | 210                               | 120                              | 8                     | M6x16                              | 17   | 0,30 |
| 35 x 57     | BK045035057 | 15       | 22       | 28      | 610                             | 35,0                             | 170                               | 100                              | 12                    | M6x16                              | 17   | 0,32 |
| 38 x 60     | BK045038060 | 15       | 22       | 28      | 680                             | 35,0                             | 170                               | 100                              | 12                    | M6x16                              | 17   | 0,36 |
| 40 x 62     | BK045040062 | 15       | 22       | 28      | 780                             | 39,0                             | 170                               | 100                              | 12                    | M6x16                              | 17   | 0,40 |
| 42 x 70     | BK045042070 | 18       | 28       | 36      | 1480                            | 70,0                             | 190                               | 110                              | 12                    | M8x22                              | 41   | 0,45 |
| 45 x 73     | BK045045073 | 18       | 28       | 36      | 1500                            | 66,0                             | 210                               | 130                              | 12                    | M8x22                              | 41   | 0,57 |
| 48 x 76     | BK045048076 | 18       | 28       | 36      | 1550                            | 66,0                             | 210                               | 130                              | 12                    | M8x22                              | 41   | 0,59 |
| 50 x 78     | BK045050078 | 18       | 28       | 36      | 1650                            | 66,0                             | 190                               | 120                              | 12                    | M8x22                              | 41   | 0,61 |
| 55 x 83     | BK045055083 | 18       | 28       | 36      | 2000                            | 72,0                             | 190                               | 120                              | 16                    | M8x22                              | 41   | 0,63 |
| 60 x 88     | BK045060088 | 18       | 28       | 36      | 2350                            | 78,0                             | 190                               | 120                              | 16                    | M8x22                              | 41   | 0,69 |
| 70 x 105    | BK045070105 | 22       | 35       | 45      | 3900                            | 111,0                            | 180                               | 120                              | 12                    | M10x25                             | 83   | 1,25 |
| 80 x 115    | BK045080115 | 22       | 35       | 45      | 4800                            | 120,0                            | 180                               | 120                              | 16                    | M10x25                             | 83   | 1,40 |