

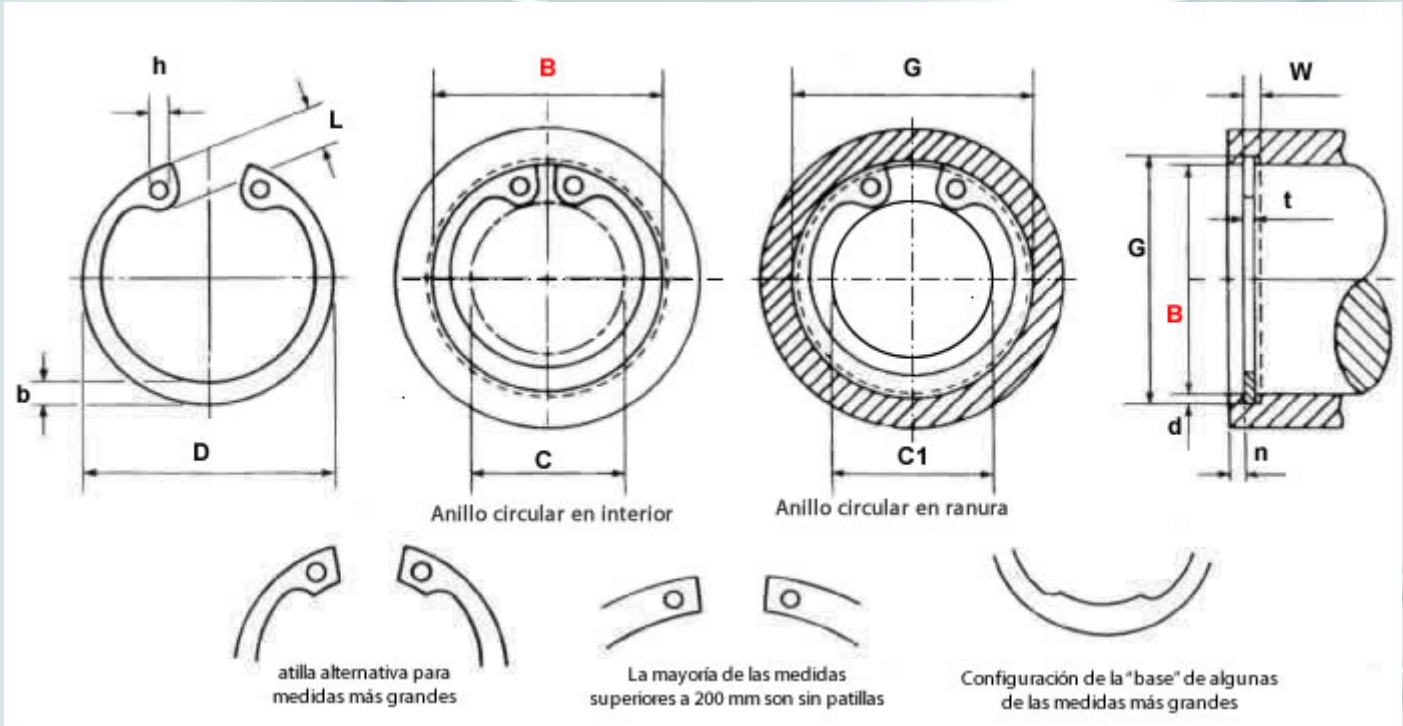
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# TÉCNICO

## Seguro DIN 472 Inoxidable

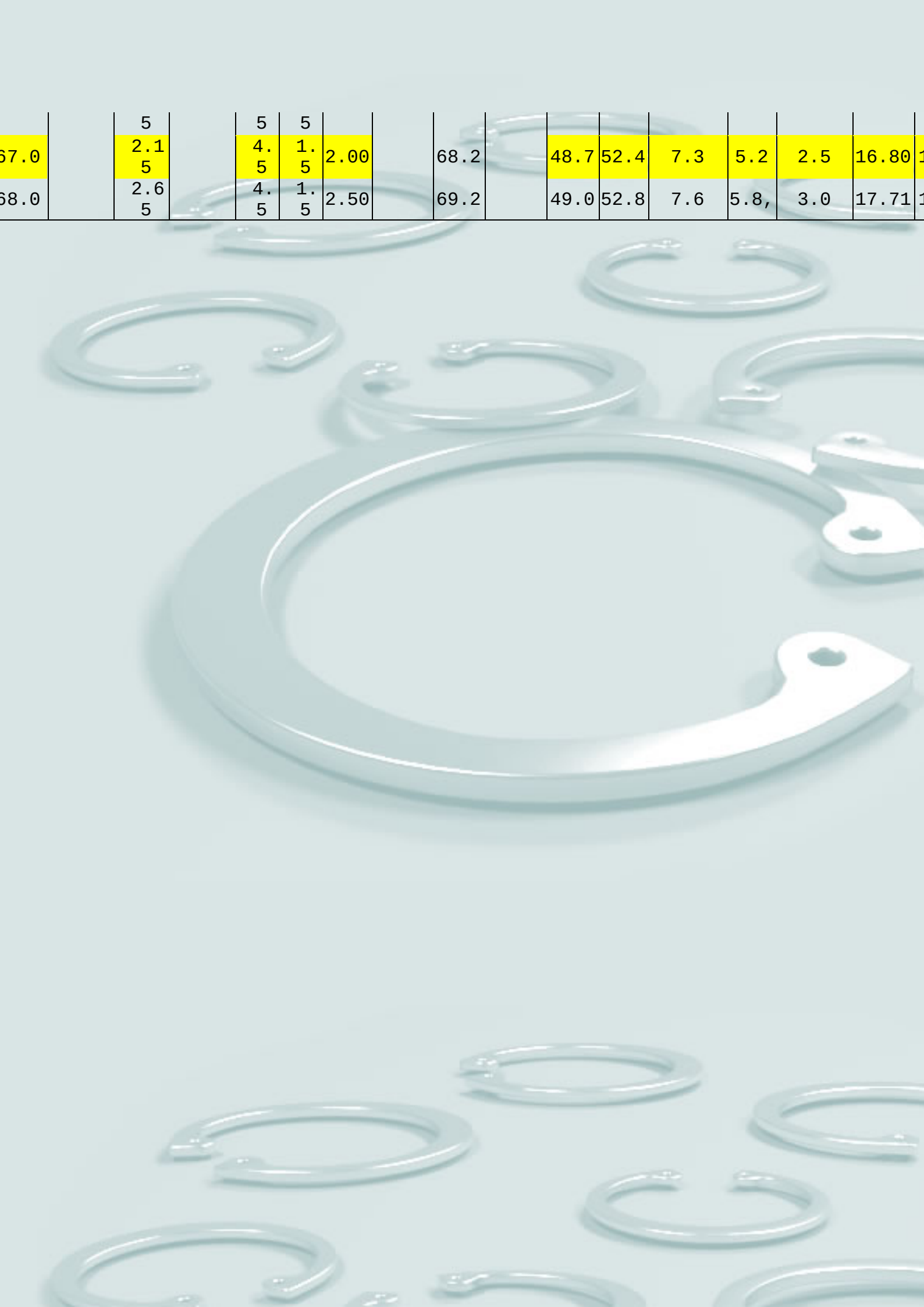
Los anillos **DIN 472** o seguros segers(seggers,seagers,seager,circlip).

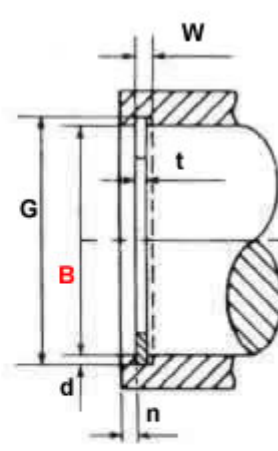
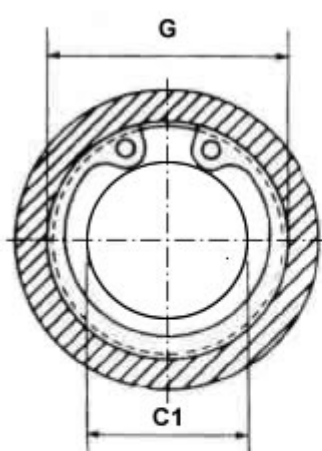
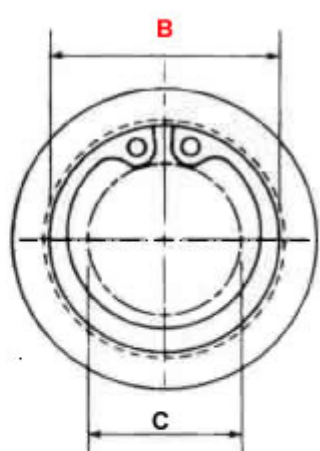
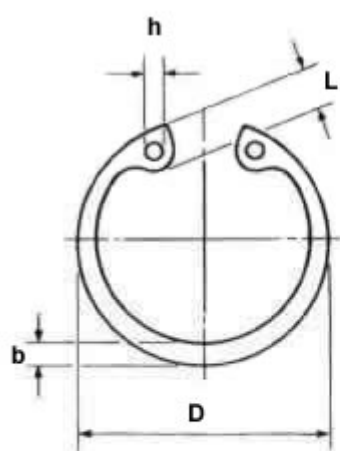


| Ranura (G) |           |          |      |         |         | Añillo circular (F) |       |      |       |      |      |               |     |               | Wt.    |
|------------|-----------|----------|------|---------|---------|---------------------|-------|------|-------|------|------|---------------|-----|---------------|--------|
| G          | Tol.      | w        | Tol. | n       | d       | t                   | Tol.  | D    | Tol.  | C    | C1   | L<br>(máximo) | b   | h<br>(mínimo) | (kg/k) |
| 8.4        | +0.0<br>9 | 0.9<br>0 |      | 0.<br>6 | 0.<br>2 | 0.80                | +0.00 | 8.7  |       | 3.0  | 3.6  | 2.4           | 1.1 | 1.0           | 0.11   |
| 9.4        | -<br>0.00 | 0.9<br>0 |      | 0.<br>6 | 0.<br>2 | 0.80                | -0.05 | 9.8  |       | 3.7  | 4.4  | 2.5           | 1.3 | 1.0           | 0.17   |
| 9.9        |           | 1.1<br>0 |      | 0.<br>6 | 0.<br>2 | 1.00                |       | 10.3 |       | 3.2  | 3.9  | 3.0           | 1.3 | 1.2           | 0.22   |
| 10.4       |           | 1.1<br>0 |      | 0.<br>6 | 0.<br>2 | 1.00                |       | 10.8 |       | 3.3  | 4.0  | 3.2           | 1.4 | 1.2           | 0.24   |
| 11.4       |           | 1.1<br>0 |      | 0.<br>6 | 0.<br>2 | 1.00                |       | 11.8 | +0.36 | 4.1  | 4.8  | 3.3           | 1.5 | 1.2           | 0.30   |
| 12.5       |           | 1.1<br>0 |      | 0.<br>8 | 0.<br>3 | 1.00                |       | 13.0 | -0.10 | 4.9  | 5.7  | 3.4           | 1.7 | 1.5           | 0.34   |
| 13.6       | +0.1<br>1 | 1.1<br>0 |      | 0<br>9  | 0.<br>3 | 1.00                |       | 14.1 |       | 5.4  | 6.4  | 3.6           | 1.8 | 1.5           | 0.39   |
| 14.6       | -<br>0.00 | 1.1<br>0 |      | 0.<br>9 | 0.<br>3 | 1.00                |       | 15.1 |       | 6.2  | 7.2  | 3.7           | 1.9 | 1.7           | 0.45   |
| 15.7       |           | 1.1<br>0 |      | 1.<br>1 | 0.<br>4 | 1.00                |       | 16.2 |       | 7.2  | 8.3  | 3.7           | 2.0 | 1.7           | 0.48   |
| 16.8       |           | 1.1<br>0 |      | 1.<br>2 | 0.<br>4 | 1.00                |       | 17.3 |       | 8.0  | 9.2  | 3.8           | 2.0 | 1.7           | 0.54   |
| 17.8       |           | 1.1<br>0 |      | 1.<br>2 | 0.<br>4 | 1.00                |       | 18.3 |       | 8.8  | 10.0 | 3.9           | 2.1 | 1.7           | 0.59   |
| 19.0       |           | 1.1<br>0 |      | 1.<br>5 | 0.<br>5 | 1.00                |       | 19.5 |       | 9.4  | 10.8 | 4.1           | 2.2 | 2.0           | 0.61   |
| 20.0       | +0<br>13  | 1.1<br>0 |      | 1.<br>5 | 0.<br>5 | 1.00                |       | 20.5 | +0.42 | 10.4 | 11.8 | 4.1           | 2.2 | 2.0           | 0.72   |
| 21.0       | -<br>0.00 | 1.1<br>0 |      | 1.<br>5 | 0.<br>5 | 1.00                |       | 21.5 | -0.13 | 11.2 | 12.6 | 4.2           | 2.3 | 2.0           | 0.75   |
| 22.0       |           | 1.1<br>0 |      | 1.<br>5 | 0.<br>5 | 1.00                |       | 22.5 |       | 12.2 | 13.6 | 4.2           | 2.4 | 2.0           | 0.84   |
| 23.0       |           | 1.1<br>0 |      | 1.<br>5 | 0.<br>5 | 1.00                |       | 23.5 |       | 13.2 | 14.6 | 4.2           | 2.5 | 2.0           | 0.86   |
| 24.1       |           | 1.3<br>0 |      | 1.<br>7 | 0.<br>6 | 1.20                |       | 24.6 |       | 14.2 | 15.7 | 4.2           | 2.5 | 2.0           | 1.20   |
| 25.2       |           | 1.3<br>0 |      | 1.<br>8 | 0.<br>6 | 1.20                |       | 25.9 | +0.42 | 14.8 | 16.4 | 4.4           | 2.6 | 2.0           | 1.21   |
| 26.2       | +0.2<br>1 | 1.3<br>0 |      | 1.<br>8 | 0.<br>6 | 1.20                |       | 26.9 | -0.21 | 15.5 | 17.2 | 4.5           | 2.7 | 2.0           | 1.33   |
| 27.2       | -<br>0.00 | 1.3<br>0 |      | 1.<br>8 | 0.<br>6 | 1.20                | +0.00 | 27.9 |       | 16.1 | 17.8 | 4.7           | 2.8 | 2.0           | 1.35   |
| 28.4       |           | 1.3<br>0 |      | 2.<br>1 | 0.<br>7 | 1.20                | -0.06 | 29.1 |       | 17.1 | 19.0 | 4.7           | 2.9 | 2.0           | 1.55   |
| 29.4       |           | 1.3<br>0 |      | 2.<br>1 | 0.<br>7 | 1.20                |       | 30.1 |       | 17.9 | 19.8 | 4.8           | 2.9 | 2.0           | 1.64   |
| 30.4       |           | 1.3      |      | 2.<br>1 | 0.<br>7 | 1.20                |       | 31.1 |       | 18.9 | 20.8 | 4.8           | 3.0 | 2.0           | 1.74   |

|      |           |          |           |         |         |      |       |      |       |  |      |      |     |     |     |       |   |
|------|-----------|----------|-----------|---------|---------|------|-------|------|-------|--|------|------|-----|-----|-----|-------|---|
|      |           | 0        |           | 1       | 7       |      |       |      |       |  |      |      |     |     |     |       |   |
| 31.4 |           | 1.3<br>0 |           | 2.<br>1 | 0.<br>7 | 1.20 |       | 32.1 |       |  | 19.9 | 21.8 | 4.8 | 3.0 | 2.0 | 1.87  |   |
| 32.7 |           | 1.3<br>0 | +0.1<br>4 | 2.<br>6 | 0.<br>9 | 1.20 |       | 33.4 |       |  | 20.0 | 22.3 | 5.2 | 3.2 | 2.5 | 2.20  |   |
| 33.7 |           | 1.3<br>0 | -<br>0.00 | 2.<br>6 | 0.<br>9 | 1.20 |       | 34.4 | +0.50 |  | 20.6 | 22.9 | 5.4 | 3.2 | 2.5 | 1.98  |   |
| 34.7 |           | 1.3<br>0 |           | 2.<br>6 | 0.<br>9 | 1.20 |       | 35.5 | -0.25 |  | 21.6 | 23.9 | 5.4 | 3.3 | 2.5 | 2.13  |   |
| 35.7 |           | 1.6<br>0 |           | 2.<br>6 | 0.<br>9 | 1.50 |       | 36.5 |       |  | 22.6 | 24.9 | 5.4 | 3.3 | 2.5 | 2.88  |   |
| 37.0 |           | 1.6<br>0 |           | 3.<br>0 | 1.<br>0 | 1.50 |       | 37.8 |       |  | 23.6 | 26.2 | 5.4 | 3.4 | 2.5 | 2.93  |   |
| 35.0 | +0.2<br>5 | 1.6<br>0 |           | 3.<br>0 | 1.<br>0 | 1.50 |       | 38.8 |       |  | 24.6 | 27.2 | 5.4 | 4.0 | 2.5 | 3.23  |   |
| 39.0 | -<br>0.00 | 1.6<br>0 |           | 3.<br>0 | 1.<br>0 | 1.50 |       | 39.8 |       |  | 25.4 | 28.0 | 5.5 | 3.2 | 2.5 | 2.98  |   |
| 40.0 |           | 1.6<br>0 |           | 3.<br>0 | 1.<br>0 | 1.50 |       | 40.8 |       |  | 26.4 | 29.0 | 5.5 | 3.7 | 2.5 | 3.54  |   |
| 42.5 |           | 1.8<br>5 |           | 3.<br>8 | 1.<br>3 | 1.75 |       | 43.5 |       |  | 27.8 | 30.9 | 5.8 | 3.9 | 2.5 | 4.63  |   |
| 43.5 |           | 1.8<br>5 |           | 3.<br>8 | 1.<br>3 | 1.75 |       | 44.5 |       |  | 28.6 | 31.7 | 5.9 | 4.0 | 2.5 | 5.37  |   |
| 44.5 |           | 1.8<br>5 |           | 3.<br>8 | 1.<br>3 | 1.75 |       | 45.5 | +0.90 |  | 29.6 | 32.7 | 5.9 | 4.1 | 2.5 | 5.21  |   |
| 47.5 |           | 1.8<br>5 |           | 3.<br>8 | 1.<br>3 | 1.75 |       | 48.5 | -0.39 |  | 32.0 | 35.1 | 6.2 | 4.3 | 2.5 | 5.88  |   |
| 49.5 |           | 1.8<br>5 |           | 3.<br>8 | 1.<br>3 | 1.75 |       | 50.5 |       |  | 33.5 | 36.7 | 6.4 | 4.4 | 2.5 | 6.13  |   |
| 50.5 |           | 1.8<br>5 |           | 3.<br>8 | 1.<br>3 | 1.75 |       | 51.5 |       |  | 34.5 | 37.7 | 6.4 | 4.5 | 2.5 | 6.31  |   |
| 53.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 54.2 |       |  | 36.3 | 40.0 | 6.5 | 4.6 | 2.5 | 8.01  |   |
| 54.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 55.2 |       |  | 37.3 | 41.0 | 6.5 | 4.7 | 2.5 | 8.72  |   |
| 55.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 56.2 |       |  | 37.9 | 41.6 | 6.7 | 4.7 | 2.5 | 8.91  |   |
| 58.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 59.2 |       |  | 40.7 | 44.4 | 6.8 | 5.0 | 2.5 | 9.44  |   |
| 59.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 60.2 | +1.10 |  | 41.7 | 45.4 | 6.8 | 5.1 | 2.5 | 9.75  |   |
| 60.0 | +0.3<br>0 | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 | +0.00 | 62.2 |       |  | 42.7 | 46.4 | 6.8 | 5.1 | 2.5 | 9.56  |   |
| 61.0 | -<br>0.00 | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 | -0.07 | 62.2 | -0.46 |  | 43.5 | 47.2 | 6.9 | 5.2 | 2.5 | 10.36 |   |
| 63.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 64.2 |       |  | 44.7 | 48.4 | 7.3 | 5.4 | 2.5 | 11.15 |   |
| 65.0 |           | 2.1<br>5 |           | 4.<br>5 | 1.<br>5 | 2.00 |       | 66.2 |       |  | 46.7 | 50.4 | 7.3 | 5.5 | 2.5 | 11.59 | 1 |
| 66.0 |           | 2.1      |           | 4.      | 1.      | 2.00 |       | 67.2 |       |  | 47.7 | 51.4 | 7.3 | 5.6 | 2.5 | 11.78 | 1 |

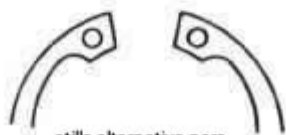
|      |  |     |  |    |    |      |  |      |  |      |      |     |      |     |       |
|------|--|-----|--|----|----|------|--|------|--|------|------|-----|------|-----|-------|
|      |  | 5   |  | 5  | 5  |      |  |      |  |      |      |     |      |     |       |
| 67.0 |  | 2.1 |  | 4. | 1. | 2.00 |  | 68.2 |  | 48.7 | 52.4 | 7.3 | 5.2  | 2.5 | 16.80 |
|      |  | 5   |  | 5  | 5  |      |  |      |  |      |      |     |      |     |       |
| 68.0 |  | 2.6 |  | 4. | 1. | 2.50 |  | 69.2 |  | 49.0 | 52.8 | 7.6 | 5.8, | 3.0 | 17.71 |
|      |  | 5   |  | 5  | 5  |      |  |      |  |      |      |     |      |     |       |





Anillo circular en interior

Anillo circular en ranura



atilla alternativa para medidas más grandes



La mayoría de las medidas superiores a 200 mm son sin patillas



Configuración de la "base" de algunas de las medidas más grandes



| Ranura (G) |       |      |       |     |     | Anillo Circular |       |       |       |       |       |               |      |               | Wt     | T   |
|------------|-------|------|-------|-----|-----|-----------------|-------|-------|-------|-------|-------|---------------|------|---------------|--------|-----|
| G          | Tol.  | W    | Tol.  | n   | d   | t               | Tol.  | D     | Tol.  | c     | c1    | L<br>(Máximo) | b    | h<br>(Mínimo) | (Kg/K) | (N) |
| 0.0        |       | 2.65 |       | 4.5 | 1.5 | 2.50            |       | 72.5  |       | 50.8  | 54.6  | 7.7           | 6.0  | 3.0           | 17.71  | 136 |
| 1.0        |       | 2.65 |       | 4.5 | 1.5 | 2.50            |       | 72.5  |       | 51.6  | 55.4  | 7.8           | 6.1  | 3.0           | 17.72  | 138 |
| 3.0        |       | 2.65 |       | 4.5 | 1.5 | 2.50            | +0.00 | 74.5  | +1.10 | 53.6  | 57.4  | 7.8           | 6.2  | 3.0           | 17.65  | 142 |
| 5.0        | +0.30 | 2.65 |       | 4.5 | 1.5 | 2.50            | -0.07 | 76.5  | -0.46 | 55.6  | 59.4  | 7.8           | 6.4  | 3.0           | 19.70  | 146 |
| 8.0        | -0.00 | 2.65 | +0.14 | 4.5 | 1.5 | 2.50            |       | 79.5  |       | 58.6  | 62.4  | 7.8           | 6.6  | 3.0           | 20.62  | 152 |
| 10.0       |       | 2.65 | -0.00 | 4.5 | 1.5 | 2.50            |       | 80.7  |       | 59.6  | 63.4  | 7.8           | 6.1  | 3.0           | 22.68  | 154 |
| 12.0       |       | 2.65 |       | 4.5 | 1.5 | 2.50            |       | 82.5  |       | 60.1  | 64.0  | 8.5           | 6.8  | 3.0           | 22.46  | 155 |
| 13.5       |       | 2.65 |       | 5.3 | 1.8 | 2.50            |       | 85.5  |       | 62.1  | 66.5  | 8.5           | 7.0  | 3.0           | 21.38  | 162 |
| 15.5       |       | 2.65 |       | 5.3 | 1.8 | 2.50            |       | 87.5  |       | 64.1  | 68.5  | 8.5           | 6.2  | 3.0           | 22.27  | 166 |
| 17,5       |       | 3.15 |       | 5.3 | 1.8 | 3.00            |       | 90.5  |       | 66.9  | 71.3  | 8.6           | 7.2  | 3.5           | 31.78  | 206 |
| 19.5       | +0.35 | 3.15 |       | 5.3 | 1.8 | 3.00            |       | 93.5  |       | 69.9  | 74.3  | 8.6           | 7.4  | 3.5           | 32.94  | 214 |
| 23.5       | -0.00 | 3.15 |       | 5.3 | 1.8 | 3.00            | +0.00 | 95.5  | +1.30 | 71.9  | 76.3  | 8.6           | 7.6  | 3.5           | 33.35  | 218 |
| 25.5       |       | 3.15 |       | 5.3 | 1.8 | 3.00            | -0.08 | 97.5  | -0.54 | 73.7  | 78.1  | 8.7           | 7.8  | 3.5           | 35.72  | 223 |
| 28.5       |       | 3.15 |       | 5.3 | 1.8 | 3.00            |       | 100.5 |       | 76.5  | 80.9  | 8.8           | 8.1  | 3.5           | 38.88  | 231 |
| 31.5       |       | 3.15 |       | 5.3 | 1.8 | 3.00            |       | 103.5 |       | 79.0  | 83.5  | 9.0           | 8.3  | 3.5           | 42.16  | 238 |
| 33.5       |       | 3.15 |       | 5.3 | 1.8 | 3.00            |       | 105.5 |       | 80.6  | 85.1  | 9.2           | 8.4  | 3.5           | 43.41  | 243 |
| 36.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 108.0 |       | 82.0  | 87.0  | 9.5           | 8.5  | 3.5           | 55.20  | 330 |
| 39.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 112.0 |       | 85.0  | 90.0  | 9.5           | 8.7  | 3.5           | 59.20  | 340 |
| 42.0       | +0.54 | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 115.0 |       | 88.0  | 93.0  | 9.5           | 8.9  | 3.5           | 62.60  | 350 |
| 44.0       | -0.00 | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 117.0 |       | 88.2  | 93.2  | 10.4          | 9.0  | 3.5           | 71.75  | 356 |
| 46.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 119.0 |       | 90.0  | 95.0  | 10.5          | 9.1  | 3.5           | 70.68  | 362 |
| 49.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 122.0 |       | 93.0  | 98.0  | 10.5          | 9.3  | 3.5           | 73.16  | 372 |
| 54.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 127.0 |       | 96.9  | 102.0 | 11.0          | 9.7  | 3.5           | 80.40  | 385 |
| 59.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 132.0 |       | 101.9 | 107.0 | 11.0          | 10.0 | 4.0           | 81.20  | 405 |
| 61.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 135.0 |       | 103.9 | 109.0 | 11.0          | 10.0 | 4.0           | 80.80  | 411 |
| 64.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            |       | 137.0 |       | 106.9 | 112.0 | 11.0          | 10.2 | 4.0           | 85.13  | 421 |
| 69.0       |       | 4.15 |       | 6.0 | 2.0 | 4.00            | +0.00 | 142.0 | +1.50 | 111.5 | 116.0 | 11.2          | 10.5 | 4.0           | 94.79  | 437 |
| 74.0       | +0.63 | 4.15 |       | 6.0 | 2.0 | 4.00            | -0.10 | 147.0 | -0.63 | 116.5 | 121.0 | 11.2          | 10.7 | 4.0           | 98.61  | 453 |
| 79.0       | -0.00 | 4.15 | +0.18 | 6.0 | 2.0 | 4.00            |       | 152.0 |       | 121.0 | 126.0 | 11.4          | 10.9 | 4.0           | 10650  | 469 |
| 85.0       |       | 4.15 | -0.00 | 7.5 | 2.5 | 4.00            |       | 158.0 |       | 124.8 | 131.0 | 12.0          | 11.2 | 4.0           | 10680  | 485 |
| 90.0       |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 164.0 |       | 129.8 | 136.0 | 12.0          | 11.4 | 4.0           | 128.00 | 502 |
| 95.0       |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 169.0 |       | 132.7 | 139.0 | 13.0          | 11.6 | 4.0           | 130.50 | 518 |
| 100.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 174.5 |       | 137.7 | 144.0 | 13.0          | 11.8 | 4.0           | 132.00 | 534 |
| 105.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 179.5 |       | 141.6 | 148.0 | 13.5          | 12.0 | 4.0           | 149.50 | 550 |
| 110.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 184.5 |       | 146.6 | 153.0 | 13.5          | 12.0 | 4.0           | 158.50 | 566 |
| 115.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 189.5 |       | 150.2 | 156.0 | 14.2          | 13.0 | 4.0           | 168.00 | 583 |
| 120.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 194.5 |       | 155.2 | 161.0 | 14.2          | 13.0 | 4.0           | 177.50 | 599 |
| 125.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 199.5 |       | 160.2 | 166.0 | 14.3          | 13.0 | 4.0           | 184.00 | 615 |
| 130.0      |       | 4.15 |       | 7.5 | 2.5 | 4.00            |       | 204.5 | +1.70 | 165.2 | 171.0 | 14.2          | 13.0 | 4.0           | 189.60 | 631 |

| REFERENCIA |                                    |                 |                                 |
|------------|------------------------------------|-----------------|---------------------------------|
| <b>B</b>   | = Agujero, Perforación             | <b>L</b>        | = Profundidad de la pata        |
| <b>-</b>   | = -                                | <b>b</b>        | = Alma del anillo               |
| <b>G</b>   | = Ranura de la perforación         | <b>h</b>        | = Agujero                       |
| <b>Tol</b> | = Tolerancia                       | <b>F</b>        | = Anillo                        |
| <b>W</b>   | = Ancho de la ranura               | <b>Wt</b>       | = Peso Kg/1000                  |
| <b>n</b>   | = Margen de arista                 | <b>min</b>      | = Mínimo                        |
| <b>d</b>   | = Profundidad de la ranura         | <b>~</b>        | = Aproximadamente               |
| <b>t</b>   | = Espesor                          | <b>max</b>      | = Máximo                        |
| <b>D</b>   | = Diámetro libre interior/exterior | <b>Ref. No.</b> | = Número de referencia          |
| <b>C</b>   | = •Anillo en el eje/en el agujero  | <b>Tc(N)</b>    | = Carga Axial (Newtones) anillo |
| <b>C1</b>  | = Anillo en la ranura              | <b>Tg(N)</b>    | = Carga Axial (Newtones) ranura |