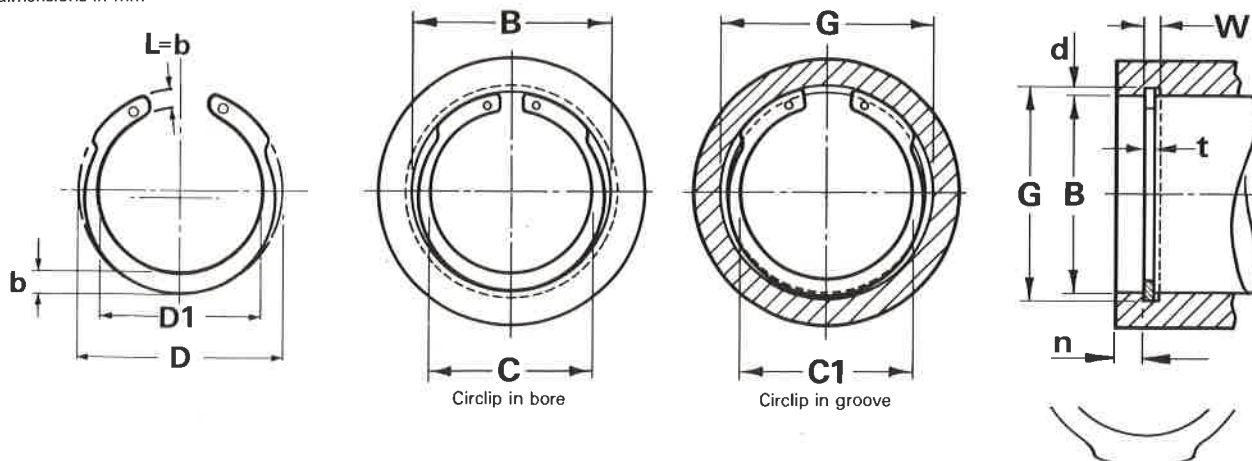


# BALANCED LUG CIRCLIPS EUROPEAN SPECIFICATION

## M1308



All dimensions in mm



† Thrust load calculations see pages 9 & 10

Beam configuration on some larger sizes

| SIZE CODE | Bore (B) |      | Groove (G)     |      |                |      | Circlip (F) |      |                |      |                |       |       |        |       |       | Tc (N) | Tg (N) | SIZE CODE |
|-----------|----------|------|----------------|------|----------------|------|-------------|------|----------------|------|----------------|-------|-------|--------|-------|-------|--------|--------|-----------|
|           | B        | G    | Tol.           | W    | Tol.           | n    | d           | t    | Tol.           | D    | Tol.           | D1    | C     | C1     | b     |       |        |        |           |
| 0160      | 16       | 16.8 | +0.11          | 1.10 | +0.14<br>-0.00 | 1.3  | 0.43        | 1.00 | +0.00<br>-0.06 | 17.3 | +0.42<br>-0.13 | 13.1  | 11.5  | 12.4   | 2.1   | 7800  | 1210   | 0160   |           |
| 0170      | 17       | 17.8 | -0.00          | 1.10 |                | 1.3  | 0.43        | 1.00 |                | 18.3 |                | 14.1  | 12.5  | 13.4   | 2.1   | 8300  | 1280   | 0170   |           |
| 0180      | 18       | 19.0 | +0.15<br>-0.00 | 1.10 |                | 1.6  | 0.54        | 1.00 |                | 19.5 |                | 15.1  | 13.3  | 14.4   | 2.2   | 8800  | 1700   | 0180   |           |
| 0190      | 19       | 20.0 |                | 1.10 |                | 1.6  | 0.54        | 1.00 |                | 20.5 |                | 16.1  | 14.3  | 15.4   | 2.2   | 9300  | 1790   | 0190   |           |
| 0200      | 20       | 21.0 | -0.00          | 1.10 |                | 1.6  | 0.54        | 1.00 |                | 21.5 | 16.9           | 15.1  | 16.2  | 2.3    | 9700  | 1890  | 0200   |        |           |
| 0210      | 21       | 22.0 | +0.21<br>-0.00 | 1.10 |                | 1.6  | 0.54        | 1.00 |                | 22.5 | +0.42<br>-0.21 | 17.7  | 15.9  | 17.0   | 2.4   | 10200 | 1980   | 0210   |           |
| 0220      | 22       | 23.0 |                | 1.10 |                | 1.6  | 0.54        | 1.00 |                | 23.5 |                | 18.7  | 16.9  | 18.0   | 2.4   | 10700 | 2070   | 0220   |           |
| 0240      | 24       | 25.2 |                | 1.30 |                | 2.0  | 0.65        | 1.20 |                | 25.9 |                | 20.3  | 18.1  | 19.4   | 2.8   | 14000 | 2710   | 0240   |           |
| 0250      | 25       | 26.2 |                | 1.30 |                | 2.0  | 0.65        | 1.20 |                | 27.1 |                | 21.7  | 18.9  | 20.2   | 2.9   | 14600 | 2830   | 0250   |           |
| 0260      | 26       | 27.2 |                | 1.30 |                | 2.0  | 0.65        | 1.20 |                | 27.9 |                | 21.9  | 19.7  | 21.0   | 3.0   | 15200 | 2940   | 0260   |           |
| 0270      | 27       | 28.4 |                | 1.30 |                | 2.3  | 0.75        | 1.20 |                | 29.1 |                | 23.1  | 20.7  | 22.2   | 3.0   | 15800 | 3560   | 0270   |           |
| 0280      | 28       | 29.4 |                | 1.30 |                | 2.3  | 0.75        | 1.20 |                | 30.1 |                | 23.9  | 21.5  | 23.0   | 3.1   | 16400 | 3690   | 0280   |           |
| 0300      | 30       | 31.4 |                | 1.30 |                | 2.3  | 0.75        | 1.20 |                | 32.1 |                | 25.7  | 23.3  | 24.8   | 3.2   | 17500 | 3960   | 0300   |           |
| 0320      | 32       | 33.7 | 1.30           | 2.8  |                | 0.91 | 1.20        | 34.4 |                | 27.8 | 25.1           | 26.9  | 3.3   | 18700  | 5130  | 0320  |        |        |           |
| 0330      | 33       | 34.7 | 1.30           | 2.8  |                | 0.91 | 1.20        | 35.5 |                | 28.9 | 26.1           | 27.9  | 3.3   | 19300  | 5290  | 0330  |        |        |           |
| 0350      | 35       | 37.0 | +0.25<br>-0.00 | 1.60 |                | 3.2  | 1.06        | 1.50 |                | 37.8 | +0.78<br>-0.39 | 31.0  | 27.9  | 30.0   | 3.4   | 25600 | 6600   | 0350   |           |
| 0360      | 36       | 38.0 |                | 1.60 | 3.2            | 1.06 | 1.50        | 38.8 | 31.6           | 28.5 |                | 30.6  | 3.6   | 26300  | 6790  | 0360  |        |        |           |
| 0380      | 38       | 40.0 |                | 1.60 | 3.2            | 1.06 | 1.50        | 40.8 | 33.2           | 30.1 |                | 32.2  | 3.8   | 27800  | 7160  | 0380  |        |        |           |
| 0400      | 40       | 42.5 |                | 1.85 | 4.0            | 1.31 | 1.75        | 43.5 | 35.1           | 31.0 |                | 33.7  | 4.2   | 28300  | 9420  | 0400  |        |        |           |
| 0420      | 42       | 44.5 |                | 1.85 | 4.0            | 1.31 | 1.75        | 45.5 | 37.1           | 33.0 |                | 35.7  | 4.2   | 29700  | 9900  | 0420  |        |        |           |
| 0450      | 45       | 47.5 |                | 1.85 | 4.0            | 1.31 | 1.75        | 48.5 | 39.7           | 35.6 |                | 38.7  | 4.4   | 31800  | 10600 | 0450  |        |        |           |
| 0470      | 47       | 49.5 | 1.85           | 4.0  | 1.31           | 1.75 | 50.5        | 41.1 | 37.0           | 39.7 | 4.7            | 33300 | 11100 | 0470   |       |       |        |        |           |
| 0480      | 48       | 50.5 | 1.85           | 4.0  | 1.33           | 1.75 | 51.5        | 42.1 | 38.0           | 40.7 | 4.7            | 34000 | 11300 | 0480   |       |       |        |        |           |
| 0500      | 50       | 53.0 | 2.15           | 4.8  | 1.58           | 2.00 | 54.2        | 43.8 | 39.0           | 42.2 | 5.2            | 40500 | 14100 | 0500   |       |       |        |        |           |
| 0520      | 52       | 55.0 | 2.15           | 4.8  | 1.58           | 2.00 | 56.2        | 45.8 | 41.0           | 44.2 | 5.2            | 42000 | 14700 | 0520   |       |       |        |        |           |
| 0550      | 55       | 58.0 | +0.30<br>-0.00 | 2.15 | 4.8            | 1.58 | 2.00        | 59.2 | +0.92<br>-0.46 | 48.8 | 44.0           | 47.2  | 5.2   | 44500  | 15500 | 0550  |        |        |           |
| 0570      | 57       | 60.0 |                | 2.15 | 4.8            | 1.58 | 2.00        | 61.2 |                | 50.8 | 46.0           | 49.2  | 5.2   | 46100  | 16100 | 0570  |        |        |           |
| 0580      | 58       | 61.0 |                | 2.15 | 4.8            | 1.58 | 2.00        | 62.2 |                | 51.8 | 47.0           | 50.2  | 5.2   | 46900  | 16400 | 0580  |        |        |           |
| 0600      | 60       | 63.0 |                | 2.15 | 4.8            | 1.58 | 2.00        | 64.2 |                | 53.8 | 49.0           | 52.2  | 5.2   | 48500  | 17000 | 0600  |        |        |           |
| 0620      | 62       | 65.0 |                | 2.15 | 4.8            | 1.58 | 2.00        | 66.2 |                | 55.8 | 51.0           | 54.2  | 5.2   | 50200  | 17500 | 0620  |        |        |           |
| 0650      | 65       | 68.0 |                | 2.65 | 4.8            | 1.58 | 2.50        | 69.2 |                | 57.8 | 52.7           | 56.0  | 5.7   | 65700  | 18400 | 0650  |        |        |           |
| 0670      | 67       | 70.0 |                | 2.65 | 4.8            | 1.58 | 2.50        | 71.5 |                | 60.1 | 54.7           | 58.0  | 5.7   | 67800  | 18900 | 0670  |        |        |           |
| 0680      | 68       | 71.0 |                | 2.65 | 4.8            | 1.58 | 2.50        | 72.5 |                | 61.1 | 55.7           | 59.0  | 5.7   | 68800  | 19200 | 0680  |        |        |           |
| 0720      | 72       | 75.0 | 2.65           | 4.8  | 1.58           | 2.50 | 76.5        | 64.5 | 59.1           | 62.4 | 6.0            | 72800 | 20400 | 0720   |       |       |        |        |           |
| 0800      | 80       | 83.5 | +0.35<br>-0.00 | 2.65 | 5.5            | 1.84 | 2.50        | 85.5 | +1.08<br>-0.54 | 73.5 | 67.1           | 70.9  | 6.0   | 80900  | 26400 | 0800  |        |        |           |
| 0850      | 85       | 88.5 |                | 3.15 | 5.5            | 1.84 | 3.00        | 90.5 |                | 77.3 | 70.9           | 74.7  | 6.6   | 108300 | 28000 | 0850  |        |        |           |

Standard material - carbon spring steel. Standard finish - phosphate and oil.