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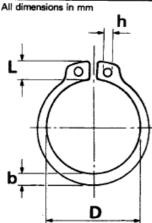
Datasheet

Steel External Circlip, 8mm Shaft Diameter, 7.6mm Groove Diameter

RS Stock number 289-225



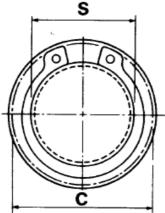
STANDARD EXTERNAL CIRCLIPS EUROPEAN SPECIFICATIONS D1400 INCORPORATING DIN 471 & BS3673 Pt.4





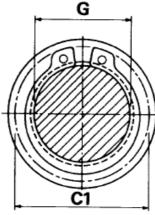
Lug for sizes 3 to 9 mm Sizes printed





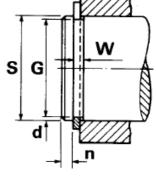
Circlip on shaft





Circlip in groove

00 Most sizes over 185 mm are without lugs



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Beam configuration on some larger sizes

† Thrust load calculations see pages 9 & 10

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Shaft Groove (G) Girclip (F) Tg† Wt. Tc s G Tol. w Tol. Tol. n d t D Tol. С C1 (kg/k) L b h (N) (N) (min) (max min 3 4 -0.00 2.8 0.50 0.3 0.10 0.40 2.7 7.0 6.6 1.9 0.8 0.02 1170 1.0 110 0.50 3.8 0.3 0.10 0.40 3.7 +0.048.6 2.2 8.2 0.9 1.0 0.03 1600 150 + 0.00 5 4.8 0.70 +0.002.5 0.3 0.10 0.60 4.7 10.3 -0.15 9.8 0.08 1.1 1.0 2900 190 - 0.048 6 7 0.80 5.7 0.5 0.15 0.70 -0.055.6 2.7 11.711.1 1.3 1.2 0.13 4100 340 6.7 0.90 0.5 0.15 0.80 6.5 13.5 12.9 3.1 1.4 1.2 0.18 5500 400 +0.068 7.6 +0.000.90 0.6 0.20 7.4 0.80 14.7 14.0 3.2 1.5 1.2 0.20 6200 600 -0.18 9 -0.068.6 1.10 0.6 0.20 8.4 1.00 16.0 15.2 3.3 1.7 1.2 0.32 8800 680 10 9.6 1.10 0.20 16.2 -0.61.00 9.3 17.0 3.3 1.8 0.40 1.5 9700 750 1040 10.5 11 1.10 0.8 0.25 1.00 10.2 1.5 18.0 17.1 3.3 1.8 0.4110700 12 11.51.10 0.8 0.25 1.00 11.0 19.0 18.1 3.3 1.8 0.4511700 1130 13 12.4 1.10 0.9 0.30 1.00 11.9 20.2 19.2 3.4 2.0 1.7 0.52 12700 1470 +0.1014 13.4 1.10 0.9 0.30 1.00 12.9 21.42.1 20.43.5 1.7 0.56 13600 1580 -0.3615 14.3 +0.001.10 1.1 0.35 1.00 22.6 13.8 21.5 3.6 2.2 1.7 0.62 14600 1980 16 15.2-0.11 1.10 1.2 0.40 1.00 14.7 23.8 22.63.7 2.2 1.7 0.69 15600 2410 17 16.2 1.10 1.2 0.40 1.00 15.7 25.0 2.3 23.8 3.8 1.70.77 16600 2560 18 17.0 1.30 1.5 0.50 1.20 16.5 26.2 24.8 3.9 2.4 2.0 21000 0.99 3390 19 18.0 .30 1.5 0.50 1.20 17.5 27.2 25.8 2.53.9 2.01.10 22200 3580 20 19.0 .30 1.5 0.50 1.20 18.5 28.4 27.0 4.0 2.6 2.0 1.18 23400 3770 21 20.0 +0.00.30 1.5 + 0.13 0.50 1.20 19.5 29.6 28.2 4.1 2.7 2.0 1.26 24500 3960 22 21.0 -0.13 1.30 1.5 0.50 1.20 20.5 -0.4230.8 29.4 4.2 2.8 2.01.39 25700 4150 23 1.30 22.0 1.5 0.50 1.20 2.9 3.0 21.5 32.0 30.6 1.54 4.3 2.0 4340 26900 24 22.9 1.30 1.7 0.55 1.20 +0.0022.2 31.7 4.4 33.2 2.0 1.52 28000 4980 25 26 27 23.9 23.2 24.2 1.30 1.7 0.551.20 -0.06 34.2 32.7 4.4 3.0 2.0 1.7029200 5180 24.9 +0.001.30 1.7 0.55 1.20 35.5 33.9 30400 4.5 3.1 2.0 1.75 5390 25.6 -0.211.30 2.1 24.9 36.7 34.8 0.70 1.20 +0.14+0.214.6 3.1 2.0 1.89 31600 7130 28 2.1 2.1 1.60 -0.00-0.4226.6 25.9 0.70 1.50 37.9 36.0 4.7 3.2 2.0 40900 2.47 7390 29 27.6 1.60 0.70 1.50 26.9 39.1 37.2 4.8 3.4 2.0 2.75 42400 7650 30 32 33 28.6 1.600.70 1.50 27.9 40.5 38.6 5.0 3.5 2.0 2.9343800 7920 30.3 2.6 1.600.85 1.50 29.6 43.0 40.7 5.2 3.6 2.5 3.02 46700 10300 31.3 1.60 2.6 0.85 1.50 30.5 44.0 41.7 3.7 2.5 5.2 3.30 48200 10600 34 32.3 1.60 2.6 0.85 1.50 31.5 45.4 43.1 5.4 3.8 +0.252.5 3.72 49700 10900 35 33.0 1.60 3.0 32.2 33.2 1.00 1.50 -0.5046.8 44.2 5.6 3.9 2.5 13200 3.78 51100 36 34.0 1.85 3.0 1.00 1.75 47.8 45.2 13600 14300 5.6 4.0 2.5 4.55 51400 36.0 1.85 3.0 1.00 1.75 35.2 47.6 4.2 54800 50.2 5.8 2.5 5.08 40 37.5 + 0.00 1.85 3.8 1.25 1.75 36.5 52.6 49.5 5.0 2.5 5.54 56600 6.0 18800 -0.25 42 39.5 1.85 3.8 1.25 1.75 38.5 55.7 52.5 6.5 2.5 5.99 59500 5.0 19800 45 42.5 1.25 1.75 1 .85 3.8 41.559 1 55.9 6.7 5.02.56.75 63700 21200 46 47 43.5 44.5 1.85 3.8 1.25 1.75 +0.3942.5 60.1 56.9 6.7 5.0 2.5 7.24 65100 21700 1.25 1.85 3.8 43.5 44.5 1.75 -0.90 61.3 58.1 6.8 5.0 2.5 7.30 66500 22100 48 45.5 1.85 3.8 1.25 1.75 62.5 59.3 6.9 5.0 2.5 7.51 67900 22600 50 47.0 2.15 4.5 1.50 2.00 45.8 64.5 60.8 6.9 5.5 2.5 9.88 80900 28300 52 54 55 56 49.0 2.15 4.5 1.50 2.00 47.8 66.7 7.0 63.0 5.5 2.5 84100 9.53 29400 2.15 2.15 51.0 4.5 1.50 2.00 49.8 7.1 69.0 65.2 5.5 2.5 10.30 87400 30500 52.0 4.5 1.50 2.00 50.8 70.2 66.4 7.2 5.5 2.5 10.41 89000 31100 53.0 2.15 4.5 1.50 2.00 +0.0051.8 7.3 2.5 +0.0071.6 67.6 5.5 10.50 90600 31700 +0.46-0.3058 4.5 55.0 2.15 1.50 - 0.07 2.00 53.8 73.6 69.6 7.3 5.6 2.5 12.47 93800 - 1.10 32800 60 62 63 57.0 59.0 2.15 2.15 2.15 2.65 4.5 4.5 2.00 2.00 1.50 55.8 7.4 5.8 2.5 75.6 71.8 13.69 97100 33900 2.5 2.5 1.50 57.8 77.8 74.0 7.5 6.0 12.36 35100 100000 60.0 4.5 1.50 2.00 58.8 7.6 79.0 75.2 6.2 13.10 102000 35600 65 62.0 4.5 77.6 Ê. 3.0 131000

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Wt. Tct Groove (G) Circlip (F) Tat Shaft Tol, (N) (N) w Tol. D Tol. С C1 L ь ħ (kg/k) S G Tol. n đ t (min) \sim (max) (min) 1 4.5 1.50 83.6 7.9 6.4 3.0 20.43 135000 37900 64.0 2.65 2.50 62.5 79.8 67 19.55 38500 138000 3.0 68 65.0 2.65 4.5 1.50 2.50 63.5 84.4 81.0 8.0 6.5 22.13 142000 39600 3.0 70 67.0 2.654.5 1.50 2.50 65.5 87.0 83.2 8.1 6.6 40700 8.2 21.60 146000 6.8 3.0 72 69.0 2 .65 4.5 1.50 2.50+ 0.00 67.5 89.2 85.4 +0.14+0.007.0 24.65 152000 42400 2.65 +0.4688.8 8.4 3.0 75 72.0 4.5 1.50 2.50 -0.07 70.5 92.7 -0.30 -0.00 -1.1024.26 43500 72.5 7.2 3.0 156000 77 74.0 2.65 4.5 1.50 2.50 94.9 91.0 8.5 7.3 7.4 158000 44100 28.10 78 80 82 85 75.0 2.65 4.5 1.50 2.50 73.5 96.1 92.2 8.6 3.0 162000 52800 26.68 3.0 76.5 2.65 5.3 1.75 2.50 74.5 98.1 93.7 8.6 54100 166000 3.0 3.5 28.35 7.6 78.5 2.65 5.3 1.75 2.50 76.5 100.3 95.9 8.7 56100 35.40 206000 81.5 3.15 5.3 1.75 3.00 79.5 103.3 98.9 8.7 7.8 39.85 214000 58100 **88** 90 3.15 5.3 1.75 3.00 82.5 106.5 102.0 8.8 8.0 3.5 84.5 +0.00218000 38.89 59400 86.5 + 0.00 84.5 108.5 104.0 8.8 8.2 3.515 5.3 .75 3.00 -0.3542.39 231000 62700 95 98 8.6 3.5 91.5 3.15 5.3 1.75 3.00 - 0.08 89.5 114.8 111.0 9.4 54.00 238000 64700 94.5 3.15 5.3 1.75 3.00 91.5 118.6 114.0 9.8 9.0 3.5 243000 48.86 66000 100 96.5 3.15 5.3 1.75 3.00 94.5 120.2 116.0 9.6 9.0 3.5 68.73 330000 76900 102 4.15 6.0 2.00 4.00 95.0 +0.54122.4 118.0 9.7 9.2 3.5 98.0 340000 349000 356000 79200 73.16 105 101.0 4.15 6.0 2.00 4.00 98.0 - 1.30 126.2 122.0 10.1 9.3 3.5 81400 83.45 + 0.00 4.15 3.5 108 6.0 2.00 4.00 100.0 129.0 124.0 10.0 9.5 104.0 82900 75.24 6.0 9.6 3.5 110 106.0 -0.54 4.15 2.00 4.00103.0 131.2 127.0 10.1 78.65 327000 86700 111.0 4.15 6.0 2.00 4.00 108.0 137.3 133.0 10.6 9.8 3.5 115 388000 90500 3.5 85.58 6.0 2.00 4.00 113.0 143.1 138.0 11.0 10.2 120 116.0 4.15 404000 94200 4.15 99.62 125 6.0 2.00 4.00 118.0 149.0 144.0 11.4 10.4 4.0 121.0 98.10 421000 98000 150.0 10.7 4.0 130 126.0 6.0 2.00 4.00 123.0 154.4 11.6 102000 113.40 437000 6.0 11.8 4.0 4.0 135 131.0 4.15 2.00 4.00 128.0 159.8 155.0 11.0 119.18 453000 106000 140 4.15 6.0 2.00 4.00 133.0 165.2 160.0 12.0 11.2 136.0 + 0.00 -0.10 4.0 128.53 470000 109000 141.0 4,15 6.0 2.00 4.00 138.0 170.6 166.0 12.2 11.5 145 132.80 485000 141000 150 2.50 4.00 142.0 177.3 171.0 13.0 11.8 4.0 145.0 4.15 7.5 +0.00501000 146000 136.06 137.50 4.15 4.0 155 150.0 + 0.18 7.5 2.50 4.00 146.0 +0.63182.3 176.0 13.0 12.0 - 0.63 518000 151000 12.2 160 155.0 4.15 -0.00 7.5 2.50 4.00 151.0 - 1.50 188.0 182.0 13.3 4.0 4.0 534000 156000 151.96 165 160.0 4.15 7.5 2.50 4.00 193.4 187.0 13.5 12.5 155.5 550000 160000 4.0 169.00 4.15 7.5 2.50 4.00 160.5 198.4 192.0 13.5 12.9 170 165.0 173.70 188.00 566000 165000 4.15 7.5 2.50 4.00 165.5 203.4 197.0 13.5 12.9 4.0 175 170.0 582000 170000 180 4.15 7.5 2.50 4.00 170.5 210.0 204.0 14.2 13.5 4.0 175.0 193.00 598000 174000 4.0 185 180.0 4.15 7.5 2.50 4.00 175.5 215.2 209.0 14.3 13.5 203.00 615000 179000 190 185.0 4.15 7.5 2.504.00 180.5 220.0 214.0 14.2 14.0 631000 184000 14.0 4.0 209.50 4.15 7.5 2.50 4.00 185.5 225.0 219.0 14.2 195 190.0 214.00 647000 188000 230.0 200 2.50 4.00 190.5 224.0 14.2 14.0 4.0 195.0 4.15 7.5 14.0 14.0 14.0 278.00 721000 232000 14.2 4.0 205 199.0 5.15 9.0 3.00 5.00 193.0 235.0 228.0 + 0.00 285.00 739000 238000 240.0 14.2 14.2 210 204.0 -0.72 5.15 9.0 3.00 5.00 198.0 +0.72 233.0 4.0 249000 4.0 298.50 775000 220 214.0 5.15 9.0 3.00 5.00 208.0 - 1.70 250.0 243.0 809000 260000 4.0 312.00 230 224.0 5.15 9.0 3.00 5.00 218.0 260.0 253.0 14.2 14.0 + 0.00 844000 271000 240 250 260 234.0 244.0 252.0 5.00 9.0 3.00 228.0 270.0 263.0 14.2 14.0 4.0 326.00 5.15 -0.12 880000 340.00 283000 14.2 5.15 9.0 3.00 5.00 238.0 280.0 272.0 14.0 4.0 915000 392000 414.00 294.0 304.0 5.15 12.0 4.00 5.00 245.0 285.0 16.2 16.0 5.0 16.0 950000 407000 16.2 5.0 430.50 270 262.0 5.15 12.0 4.00 5.00 255.0 295.0 446.50 463.00 5.0 985000 422000 16.0 280 272.0 5.15 12.0 4.00 5.00 265.0 + 0.81 314.0 305.0 16.2 + 0.00 020000 437000 290 300 16.2 282.0 5.15 12.0 4.00 5.00 275.0 -2.00 324.0 315.0 16.0 5.0 -0.81 479.00 452000 1056000 334.0 292.0 5.15 12.0 4.00 5.00 285.0 325.0 16.2 16.0 5.0 1309000 584000 710.50 310 300.0 6.20 15.0 5.00 6.00 293.0 352.2 341.0 20.2 20.0 6.0 734.00 1351000 603000 320 310.0 6.20 15.0 5.00 6.00 303.0 362.2 351.1 20.2 20.0 6.0 1393000 622000 330 340 350 20.0 6.0 757.00 320.0 6.20 15.0 5.00 6.00 313.0 372.2 361.0 20.2 436000 641000 6.00 20.2 20.2 20.0 780.00 805.00 827.00 330.0 6.20 15.0 5.00 323.0 382.2 371.0 6.0 660000 20.0 20.0 478000 392.2 340.0 6.20 + 0.22 15.0 5.00 6.00 + 0.00 333.0 + 1.00 381.0 6.0 520000 679000 20.2 6.0 360 350.0 +0.006.20 - 0.00 15.0 5.00 6.00 0.18 343.0 - 2.50 402.2 391.0 20.0 1562000 697000 353.0 401.0 6.0 370 360.0 -0.89 6.20 15.0 5.00 6.00 412.2 20.2 850.00 1604000 1646000 380 390 400 716000 422.2 432.2 442.2 20.2 20.2 20.2 20.0 20.0 20.0 873.00 370.0 6.20 15.0 5.00 6.00 363.0 411.0 6.0 735000 6.0 6.0 6.20 15.0 5.00 6.00 373.0 421.0 896.00 380.0 754000 919.00 1689000 431.0 390.0 6.20 15.0 5.00 6.00 383.0

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