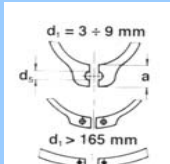
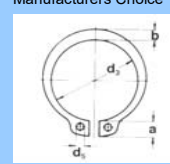
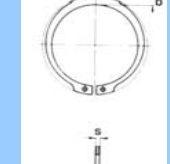
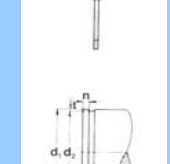
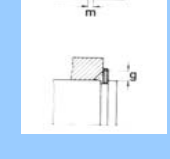
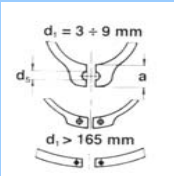
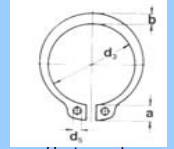
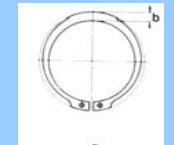
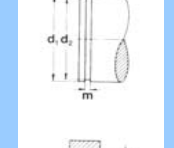
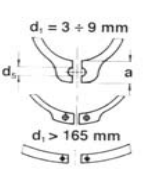
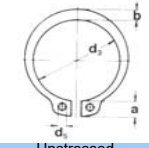
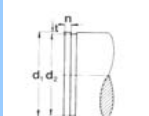
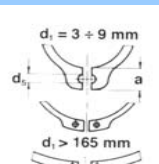
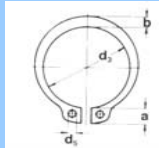
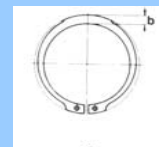
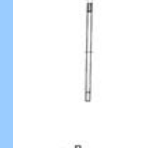
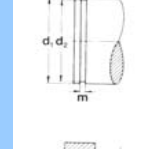
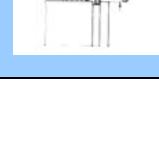


| D1400 External Circlips - For Shafts - DIN 471                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                       |                    |           |                          |               |             |            |                   |                   |                      |           |                      |                            |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|--------------------|-----------|--------------------------|---------------|-------------|------------|-------------------|-------------------|----------------------|-----------|----------------------|----------------------------|--------|
| Data Chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reference Number | Nominal Diameter (d1) | Circlip Dimensions |           |                          |               |             |            |                   | Groove Dimensions |                      |           |                      |                            | Pliers |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                       | Thickness (s)      | Tolerance | Unstressed Diameter (d2) | Tolerance     | Lug (a) max | Beam (b) ≈ | Lug Hole (ds) min | Weight Kg/1,000   | Groove Diameter (d2) | Tolerance | Min Groove Width (m) | Radial Depth of Groove (t) |        |
| <div></div> <div>Manufacturers Choice</div> <div></div> <div>Unstressed</div> <div></div> <div></div> <div></div> | D1400-0030       | 3                     | 0.40               | -0.05     | 2.7                      | +0.04 / -0.15 | 1.9         | 0.8        | 1.0               | 0.017             | 2.8                  | -0.04     | 0.50                 | 0.10                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0040       | 4                     | 0.40               | -0.05     | 3.7                      | +0.04 / -0.15 | 2.2         | 0.9        | 1.0               | 0.022             | 3.8                  | -0.04     | 0.50                 | 0.10                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0050       | 5                     | 0.60               | -0.05     | 4.7                      | +0.04 / -0.15 | 2.5         | 1.1        | 1.0               | 0.066             | 4.8                  | -0.04     | 0.70                 | 0.10                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0060       | 6                     | 0.70               | -0.05     | 5.6                      | +0.04 / -0.15 | 2.7         | 1.3        | 1.2               | 0.084             | 5.7                  | -0.04     | 0.80                 | 0.15                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0070       | 7                     | 0.80               | -0.05     | 6.5                      | +0.06 / -0.18 | 3.1         | 1.4        | 1.2               | 0.121             | 6.7                  | -0.06     | 0.90                 | 0.15                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0080       | 8                     | 0.80               | -0.05     | 7.4                      | +0.06 / -0.18 | 3.2         | 1.5        | 1.2               | 0.158             | 7.6                  | -0.06     | 0.90                 | 0.20                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0090       | 9                     | 1.00               | -0.06     | 8.4                      | +0.06 / -0.18 | 3.3         | 1.7        | 1.2               | 0.300             | 8.6                  | -0.06     | 1.10                 | 0.20                       | HA 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0100       | 10                    | 1.00               | -0.06     | 9.3                      | +0.10 / -0.36 | 3.3         | 1.8        | 1.5               | 0.340             | 9.6                  | -0.11     | 1.10                 | 0.20                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0110       | 11                    | 1.00               | -0.06     | 10.2                     | +0.10 / -0.36 | 3.3         | 1.8        | 1.5               | 0.410             | 10.5                 | -0.11     | 1.10                 | 0.25                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0120       | 12                    | 1.00               | -0.06     | 11.0                     | +0.10 / -0.36 | 3.3         | 1.8        | 1.7               | 0.500             | 11.5                 | -0.11     | 1.10                 | 0.25                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0130       | 13                    | 1.00               | -0.06     | 11.9                     | +0.10 / -0.36 | 3.4         | 2.0        | 1.7               | 0.530             | 12.4                 | -0.11     | 1.10                 | 0.30                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0140       | 14                    | 1.00               | -0.06     | 12.9                     | +0.10 / -0.36 | 3.5         | 2.1        | 1.7               | 0.640             | 13.4                 | -0.11     | 1.10                 | 0.30                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0150       | 15                    | 1.00               | -0.06     | 13.8                     | +0.10 / -0.36 | 3.6         | 2.2        | 1.7               | 0.670             | 14.3                 | -0.11     | 1.10                 | 0.35                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0160       | 16                    | 1.00               | -0.06     | 14.7                     | +0.10 / -0.36 | 3.7         | 2.2        | 1.7               | 0.700             | 15.2                 | -0.11     | 1.10                 | 0.40                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0170       | 17                    | 1.00               | -0.06     | 15.7                     | +0.10 / -0.36 | 3.8         | 2.3        | 1.7               | 0.820             | 16.2                 | -0.11     | 1.10                 | 0.40                       | HA 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0180       | 18                    | 1.20               | -0.06     | 16.5                     | +0.10 / -0.36 | 3.9         | 2.4        | 2.0               | 1.110             | 17.0                 | -0.11     | 1.30                 | 0.50                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0190       | 19                    | 1.20               | -0.06     | 17.5                     | +0.10 / -0.36 | 3.9         | 2.5        | 2.0               | 1.220             | 18.0                 | -0.11     | 1.30                 | 0.50                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0200       | 20                    | 1.20               | -0.06     | 18.5                     | +0.13 / -0.42 | 4.0         | 2.6        | 2.0               | 1.300             | 19.0                 | -0.13     | 1.30                 | 0.50                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0210       | 21                    | 1.20               | -0.06     | 19.5                     | +0.13 / -0.42 | 4.1         | 2.7        | 2.0               | 1.420             | 20.0                 | -0.13     | 1.30                 | 0.50                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0220       | 22                    | 1.20               | -0.06     | 20.5                     | +0.13 / -0.42 | 4.2         | 2.8        | 2.0               | 1.500             | 21.0                 | -0.13     | 1.30                 | 0.50                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0230       | 23                    | 1.20               | -0.06     | 21.5                     | +0.13 / -0.42 | 4.3         | 2.9        | 2.0               | 1.630             | 22.0                 | -0.15     | 1.30                 | 0.50                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0240       | 24                    | 1.20               | -0.06     | 22.2                     | +0.21 / -0.42 | 4.4         | 3.0        | 2.0               | 1.770             | 22.9                 | -0.21     | 1.30                 | 0.55                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0250       | 25                    | 1.20               | -0.06     | 23.2                     | +0.21 / -0.42 | 4.4         | 3.0        | 2.0               | 1.900             | 23.9                 | -0.21     | 1.30                 | 0.55                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0260       | 26                    | 1.20               | -0.06     | 24.2                     | +0.21 / -0.42 | 4.5         | 3.1        | 2.0               | 1.960             | 24.9                 | -0.21     | 1.30                 | 0.55                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0270       | 27                    | 1.20               | -0.06     | 24.9                     | +0.21 / -0.42 | 4.6         | 3.1        | 2.0               | 2.080             | 25.6                 | -0.21     | 1.30                 | 0.70                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0280       | 28                    | 1.50               | -0.06     | 25.9                     | +0.21 / -0.42 | 4.7         | 3.2        | 2.0               | 2.920             | 26.6                 | -0.21     | 1.60                 | 0.70                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0290       | 29                    | 1.50               | -0.06     | 26.9                     | +0.21 / -0.42 | 4.8         | 3.4        | 2.0               | 3.200             | 27.6                 | -0.21     | 1.60                 | 0.70                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0300       | 30                    | 1.50               | -0.06     | 27.9                     | +0.21 / -0.42 | 5.0         | 3.5        | 2.0               | 3.320             | 28.6                 | -0.21     | 1.60                 | 0.70                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0310       | 31                    | 1.50               | -0.06     | 28.6                     | +0.21 / -0.42 | 5.1         | 3.5        | 2.5               | 3.450             | 29.3                 | -0.21     | 1.60                 | 0.85                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0320       | 32                    | 1.50               | -0.06     | 29.6                     | +0.21 / -0.42 | 5.2         | 3.6        | 2.5               | 3.540             | 30.3                 | -0.25     | 1.60                 | 0.85                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0330       | 33                    | 1.50               | -0.06     | 30.5                     | +0.25 / -0.50 | 5.2         | 3.7        | 2.5               | 3.690             | 31.3                 | -0.25     | 1.60                 | 0.85                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0340       | 34                    | 1.50               | -0.06     | 31.5                     | +0.25 / -0.50 | 5.4         | 3.8        | 2.5               | 3.800             | 32.3                 | -0.25     | 1.60                 | 0.85                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0350       | 35                    | 1.50               | -0.06     | 32.2                     | +0.25 / -0.50 | 5.6         | 3.9        | 2.5               | 4.000             | 33.0                 | -0.25     | 1.60                 | 1.00                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0360       | 36                    | 1.75               | -0.06     | 33.2                     | +0.25 / -0.50 | 5.6         | 4.0        | 2.5               | 5.000             | 34.0                 | -0.25     | 1.85                 | 1.00                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0370       | 37                    | 1.75               | -0.06     | 34.2                     | +0.25 / -0.50 | 5.7         | 4.1        | 2.5               | 5.370             | 35.0                 | -0.25     | 1.85                 | 1.00                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0380       | 38                    | 1.75               | -0.06     | 35.2                     | +0.25 / -0.50 | 5.8         | 4.2        | 2.5               | 5.620             | 36.0                 | -0.25     | 1.85                 | 1.00                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0390       | 39                    | 1.75               | -0.06     | 36.0                     | +0.25 / -0.50 | 5.9         | 4.3        | 2.5               | 5.850             | 37.0                 | -0.25     | 1.85                 | 1.00                       | HA 2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0400       | 40                    | 1.75               | -0.06     | 36.5                     | +0.39 / -0.90 | 6.0         | 4.4        | 2.5               | 6.030             | 37.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0410       | 41                    | 1.75               | -0.06     | 37.5                     | +0.39 / -0.90 | 6.2         | 4.5        | 2.5               | 6.215             | 38.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0420       | 42                    | 1.75               | -0.06     | 38.5                     | +0.39 / -0.90 | 6.5         | 4.5        | 2.5               | 6.500             | 39.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0440       | 44                    | 1.75               | -0.06     | 40.5                     | +0.39 / -0.90 | 6.6         | 4.6        | 2.5               | 7.000             | 41.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0450       | 45                    | 1.75               | -0.06     | 41.5                     | +0.39 / -0.90 | 6.7         | 4.7        | 2.5               | 7.500             | 42.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0460       | 46                    | 1.75               | -0.06     | 42.5                     | +0.39 / -0.90 | 6.7         | 4.8        | 2.5               | 7.600             | 43.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0470       | 47                    | 1.75               | -0.06     | 43.5                     | +0.39 / -0.90 | 6.8         | 4.9        | 2.5               | 7.500             | 44.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0480       | 48                    | 1.75               | -0.06     | 44.5                     | +0.39 / -0.90 | 6.9         | 5.0        | 2.5               | 7.900             | 45.5                 | -0.25     | 1.85                 | 1.25                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0500       | 50                    | 2.00               | -0.07     | 45.8                     | +0.39 / -0.90 | 6.9         | 5.1        | 2.5               | 10.200            | 47.0                 | -0.25     | 2.15                 | 1.50                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0520       | 52                    | 2.00               | -0.07     | 47.8                     | +0.39 / -0.90 | 7.0         | 5.2        | 2.5               | 11.100            | 49.0                 | -0.25     | 2.15                 | 1.50                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0540       | 54                    | 2.00               | -0.07     | 49.8                     | +0.39 / -0.90 | 7.1         | 5.3        | 2.5               | 11.300            | 51.0                 | -0.30     | 2.15                 | 1.50                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0550       | 55                    | 2.00               | -0.07     | 50.8                     | +0.46 / -1.10 | 7.2         | 5.4        | 2.5               | 11.400            | 52.0                 | -0.30     | 2.15                 | 1.50                       | HA 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D1400-0560       | 56                    | 2.00               | -0.07     | 51.8                     | +0.46 / -1.10 | 7.3         | 5.5        | 2.5               | 11.800            | 53.0                 | -0.30     | 2.15                 | 1.50                       | HA 3   |

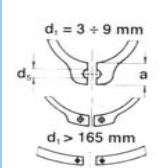
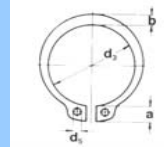
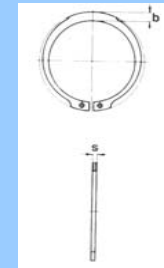
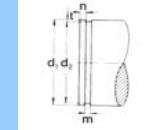
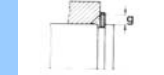
| D1400                                                                               |            | External Circlips - For Shafts - DIN 471 |                       |                    |           |                                       |           |             |            |                                |                                   |                 |                   |                      |                            |  |        |
|-------------------------------------------------------------------------------------|------------|------------------------------------------|-----------------------|--------------------|-----------|---------------------------------------|-----------|-------------|------------|--------------------------------|-----------------------------------|-----------------|-------------------|----------------------|----------------------------|--|--------|
| Data Chart                                                                          |            | Reference Number                         | Nominal Diameter (d1) | Circlip Dimensions |           |                                       |           |             |            |                                |                                   | Weight Kg/1,000 | Groove Dimensions |                      |                            |  | Pliers |
|                                                                                     |            |                                          |                       | Thickness (s)      | Tolerance | Unstressed Diameter (d <sub>2</sub> ) | Tolerance | Lug (a) max | Beam (b) ≈ | Lug Hole (d <sub>s</sub> ) min | Groove Diameter (d <sub>2</sub> ) |                 | Tolerance         | Min Groove Width (m) | Radial Depth of Groove (t) |  |        |
|    | D1400-0570 | 57                                       | 2.00                  | -0.07              | 52.8      | +0.46 / - 1.10                        | 7.3       | 5.5         | 2.5        | 12.200                         | 54.0                              | -0.30           | 2.15              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0580 | 58                                       | 2.00                  | -0.07              | 53.8      | +0.46 / - 1.10                        | 7.3       | 5.6         | 2.5        | 12.600                         | 55.0                              | -0.30           | 2.15              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0600 | 60                                       | 2.00                  | -0.07              | 55.8      | +0.46 / - 1.10                        | 7.4       | 5.8         | 2.5        | 12.900                         | 57.0                              | -0.30           | 2.15              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0620 | 62                                       | 2.00                  | -0.07              | 57.8      | +0.46 / - 1.10                        | 7.5       | 6.0         | 2.5        | 14.300                         | 59.0                              | -0.30           | 2.15              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0630 | 63                                       | 2.00                  | -0.07              | 58.8      | +0.46 / - 1.10                        | 7.6       | 6.2         | 2.5        | 15.900                         | 60.0                              | -0.30           | 2.15              | 1.50                 | HA 3                       |  |        |
|    | D1400-0650 | 65                                       | 2.50                  | -0.07              | 60.8      | +0.46 / - 1.10                        | 7.8       | 6.3         | 3.0        | 18.200                         | 62.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0670 | 67                                       | 2.50                  | -0.07              | 62.5      | +0.46 / - 1.10                        | 7.9       | 6.4         | 3.0        | 20.300                         | 64.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0680 | 68                                       | 2.50                  | -0.07              | 63.5      | +0.46 / - 1.10                        | 8.0       | 6.5         | 3.0        | 21.800                         | 65.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0700 | 70                                       | 2.50                  | -0.07              | 65.5      | +0.46 / - 1.10                        | 8.1       | 6.6         | 3.0        | 22.000                         | 67.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0720 | 72                                       | 2.50                  | -0.07              | 67.5      | +0.46 / - 1.10                        | 8.2       | 6.8         | 3.0        | 22.500                         | 69.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|    | D1400-0750 | 75                                       | 2.50                  | -0.07              | 70.5      | +0.46 / - 1.10                        | 8.4       | 7.0         | 3.0        | 24.600                         | 72.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0770 | 77                                       | 2.50                  | -0.07              | 72.5      | +0.46 / - 1.10                        | 8.5       | 7.2         | 3.0        | 25.700                         | 74.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0780 | 78                                       | 2.50                  | -0.07              | 73.5      | +0.46 / - 1.10                        | 8.6       | 7.3         | 3.0        | 26.200                         | 75.0                              | -0.30           | 2.65              | 1.50                 | HA 3                       |  |        |
|                                                                                     | D1400-0800 | 80                                       | 2.50                  | -0.07              | 74.5      | +0.46 / - 1.10                        | 8.6       | 7.4         | 3.0        | 27.300                         | 76.5                              | -0.30           | 2.65              | 1.75                 | HA 3                       |  |        |
|                                                                                     | D1400-0820 | 82                                       | 2.50                  | -0.07              | 76.5      | +0.46 / - 1.10                        | 8.7       | 7.6         | 3.0        | 31.200                         | 78.5                              | -0.30           | 2.65              | 1.75                 | HA 3                       |  |        |
|  | D1400-0850 | 85                                       | 3.00                  | -0.08              | 79.5      | +0.46 / - 1.10                        | 8.7       | 7.8         | 3.5        | 36.400                         | 81.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-0870 | 87                                       | 3.00                  | -0.08              | 81.5      | +0.54 / - 1.30                        | 8.8       | 7.9         | 3.5        | 39.800                         | 83.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-0880 | 88                                       | 3.00                  | -0.08              | 82.5      | +0.54 / - 1.30                        | 8.8       | 8.0         | 3.5        | 41.200                         | 84.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-0900 | 90                                       | 3.00                  | -0.08              | 84.5      | +0.54 / - 1.30                        | 8.8       | 8.2         | 3.5        | 44.500                         | 86.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-0920 | 92                                       | 3.00                  | -0.08              | 86.5      | +0.54 / - 1.30                        | 9.0       | 8.4         | 3.5        | 46.000                         | 88.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|  | D1400-0950 | 95                                       | 3.00                  | -0.08              | 89.5      | +0.54 / - 1.30                        | 9.4       | 8.6         | 3.5        | 49.000                         | 91.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-0970 | 97                                       | 3.00                  | -0.08              | 91.5      | +0.54 / - 1.30                        | 9.4       | 8.8         | 3.5        | 50.200                         | 93.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-0980 | 98                                       | 3.00                  | -0.08              | 91.5      | +0.54 / - 1.30                        | 9.4       | 8.8         | 3.5        | 50.200                         | 94.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-1000 | 100                                      | 3.00                  | -0.08              | 94.5      | +0.54 / - 1.30                        | 9.6       | 9.0         | 3.5        | 53.700                         | 96.5                              | -0.35           | 3.15              | 1.75                 | HA 4                       |  |        |
|                                                                                     | D1400-1020 | 102                                      | 4.00                  | -0.10              | 95.0      | +0.54 / - 1.30                        | 9.7       | 9.2         | 3.5        | 78.000                         | 98.0                              | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|  | D1400-1050 | 105                                      | 4.00                  | -0.10              | 98.0      | +0.54 / - 1.30                        | 9.9       | 9.3         | 3.5        | 80.000                         | 101.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1070 | 107                                      | 4.00                  | -0.10              | 100.0     | +0.54 / - 1.30                        | 10.0      | 9.5         | 3.5        | 81.000                         | 103.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1080 | 108                                      | 4.00                  | -0.10              | 100.0     | +0.54 / - 1.30                        | 10.0      | 9.5         | 3.5        | 81.000                         | 104.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1100 | 110                                      | 4.00                  | -0.10              | 103.0     | +0.54 / - 1.30                        | 10.1      | 9.6         | 3.5        | 82.000                         | 106.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1120 | 112                                      | 4.00                  | -0.10              | 105.0     | +0.54 / - 1.30                        | 10.3      | 9.7         | 3.5        | 83.000                         | 108.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|  | D1400-1150 | 115                                      | 4.00                  | -0.10              | 108.0     | +0.54 / - 1.30                        | 10.6      | 9.8         | 3.5        | 84.000                         | 111.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1170 | 117                                      | 4.00                  | -0.10              | 110.0     | +0.54 / - 1.30                        | 10.8      | 10.0        | 3.5        | 85.000                         | 113.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1180 | 118                                      | 4.00                  | -0.10              | 110.0     | +0.54 / - 1.30                        | 10.8      | 10.0        | 3.5        | 85.000                         | 114.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1200 | 120                                      | 4.00                  | -0.10              | 113.0     | +0.54 / - 1.30                        | 11.0      | 10.2        | 3.5        | 86.000                         | 116.0                             | -0.54           | 4.15              | 2.00                 | HA 4                       |  |        |
|                                                                                     | D1400-1220 | 122                                      | 4.00                  | -0.10              | 115.0     | +0.54 / - 1.30                        | 11.2      | 10.3        | 4.0        | 88.000                         | 118.0                             | -0.54           | 4.15              | 2.00                 | HA 5                       |  |        |
|  | D1400-1250 | 125                                      | 4.00                  | -0.10              | 118.0     | +0.54 / - 1.30                        | 11.4      | 10.4        | 4.0        | 90.000                         | 121.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1270 | 127                                      | 4.00                  | -0.10              | 120.0     | +0.54 / - 1.30                        | 11.4      | 10.5        | 4.0        | 95.000                         | 123.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1280 | 128                                      | 4.00                  | -0.10              | 120.0     | +0.54 / - 1.30                        | 11.4      | 10.5        | 4.0        | 95.000                         | 124.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1300 | 130                                      | 4.00                  | -0.10              | 123.0     | +0.63 / - 1.50                        | 11.6      | 10.7        | 4.0        | 100.000                        | 126.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1320 | 132                                      | 4.00                  | -0.10              | 125.0     | +0.63 / - 1.50                        | 11.7      | 10.8        | 4.0        | 103.000                        | 128.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|  | D1400-1350 | 135                                      | 4.00                  | -0.10              | 128.0     | +0.63 / - 1.50                        | 11.8      | 11.0        | 4.0        | 104.000                        | 131.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1370 | 137                                      | 4.00                  | -0.10              | 130.0     | +0.63 / - 1.50                        | 11.9      | 11.0        | 4.0        | 107.000                        | 133.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1380 | 138                                      | 4.00                  | -0.10              | 130.0     | +0.63 / - 1.50                        | 11.9      | 11.0        | 4.0        | 107.000                        | 134.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1400 | 140                                      | 4.00                  | -0.10              | 133.0     | +0.63 / - 1.50                        | 12.0      | 11.2        | 4.0        | 110.000                        | 136.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1420 | 142                                      | 4.00                  | -0.10              | 135.0     | +0.63 / - 1.50                        | 12.1      | 11.3        | 4.0        | 112.000                        | 138.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|  | D1400-1450 | 145                                      | 4.00                  | -0.10              | 138.0     | +0.63 / - 1.50                        | 12.2      | 11.5        | 4.0        | 115.000                        | 141.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1470 | 147                                      | 4.00                  | -0.10              | 140.0     | +0.63 / - 1.50                        | 12.3      | 11.6        | 4.0        | 116.000                        | 143.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1480 | 148                                      | 4.00                  | -0.10              | 140.0     | +0.63 / - 1.50                        | 12.3      | 11.6        | 4.0        | 116.000                        | 144.0                             | -0.63           | 4.15              | 2.00                 | HA 5                       |  |        |
|                                                                                     | D1400-1500 | 150                                      | 4.00                  | -0.10              | 142.0     | +0.63 / - 1.50                        | 13.0      | 11.8        | 4.0        | 120.000                        | 145.0                             | -0.63           | 4.15              | 2.50                 | HA 5                       |  |        |
|                                                                                     | D1400-1520 | 152                                      | 4.00                  | -0.10              | 143.0     | +0.63 / - 1.50                        | 13.0      | 11.9        | 4.0        | 128.000                        | 147.0                             | -0.63           | 4.15              | 2.50                 | HA 5                       |  |        |

| D1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  | External Circlips - For Shafts - DIN 471 |                    |           |                          |                 |             |            |                   |                 |                      |           |                      |                            |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------|--------------------|-----------|--------------------------|-----------------|-------------|------------|-------------------|-----------------|----------------------|-----------|----------------------|----------------------------|--------|
| Data Chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Reference Number | Nominal Diameter (d1)                    | Circlip Dimensions |           |                          |                 |             |            |                   | Weight Kg/1,000 | Groove Dimensions    |           |                      |                            |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                          | Thickness (s)      | Tolerance | Unstressed Diameter (d2) | Tolerance       | Lug (a) max | Beam (b) ≈ | Lug Hole (d3) min |                 | Groove Diameter (d2) | Tolerance | Min Groove Width (m) | Radial Depth of Groove (t) | Pliers |
|  <p><math>d_1 = 3 + 9 \text{ mm}</math></p> <p><math>d_1 &gt; 165 \text{ mm}</math></p> <p>Manufacturers Choice</p>  <p>Unstressed</p>     | D1400-1550       | 155                                      | 4.00               | - 0.10    | 146.0                    | + 0.63 / - 1.50 | 13.0        | 12.0       | 4.0               | 135.000         | 150.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1570       | 157                                      | 4.00               | - 0.10    | 148.0                    | + 0.63 / - 1.50 | 13.1        | 12.0       | 4.0               | 140.000         | 152.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1580       | 158                                      | 4.00               | - 0.10    | 148.0                    | + 0.63 / - 1.50 | 13.1        | 12.0       | 4.0               | 140.000         | 153.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1600       | 160                                      | 4.00               | - 0.10    | 151.0                    | + 0.63 / - 1.50 | 13.3        | 12.2       | 4.0               | 150.000         | 155.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1620       | 162                                      | 4.00               | - 0.10    | 152.5                    | + 0.63 / - 1.50 | 13.3        | 12.3       | 4.0               | 155.000         | 157.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1650       | 165                                      | 4.00               | - 0.10    | 155.5                    | + 0.63 / - 1.50 | 13.5        | 12.5       | 4.0               | 160.000         | 160.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1670       | 167                                      | 4.00               | - 0.10    | 157.5                    | + 0.63 / - 1.50 | 13.5        | 12.9       | 4.0               | 163.000         | 162.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1680       | 168                                      | 4.00               | - 0.10    | 157.5                    | + 0.63 / - 1.50 | 13.5        | 12.9       | 4.0               | 163.000         | 163.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1700       | 170                                      | 4.00               | - 0.10    | 160.5                    | + 0.63 / - 1.50 | 13.5        | 12.9       | 4.0               | 170.000         | 165.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1720       | 172                                      | 4.00               | - 0.10    | 160.5                    | + 0.63 / - 1.50 | 13.5        | 12.9       | 4.0               | 170.000         | 167.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1750       | 175                                      | 4.00               | - 0.10    | 165.5                    | + 0.63 / - 1.50 | 13.5        | 12.9       | 4.0               | 180.000         | 170.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1770       | 177                                      | 4.00               | - 0.10    | 167.5                    | + 0.63 / - 1.50 | 14.2        | 13.5       | 4.0               | 183.000         | 172.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1780       | 178                                      | 4.00               | - 0.10    | 167.5                    | + 0.63 / - 1.50 | 14.2        | 13.5       | 4.0               | 183.000         | 173.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1800       | 180                                      | 4.00               | - 0.10    | 170.5                    | + 0.63 / - 1.50 | 14.2        | 13.5       | 4.0               | 190.000         | 175.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1820       | 182                                      | 4.00               | - 0.10    | 170.5                    | + 0.63 / - 1.50 | 14.2        | 13.5       | 4.0               | 190.000         | 177.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1850       | 185                                      | 4.00               | - 0.10    | 175.5                    | + 0.63 / - 1.50 | 14.2        | 13.5       | 4.0               | 200.000         | 180.0                | - 0.63    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1870       | 187                                      | 4.00               | - 0.10    | 177.5                    | + 0.63 / - 1.50 | 14.2        | 14.0       | 4.0               | 203.000         | 182.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1880       | 188                                      | 4.00               | - 0.10    | 177.5                    | + 0.63 / - 1.50 | 14.2        | 14.0       | 4.0               | 203.000         | 183.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1900       | 190                                      | 4.00               | - 0.10    | 180.5                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 210.000         | 185.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1920       | 192                                      | 4.00               | - 0.10    | 180.5                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 210.000         | 187.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1950       | 195                                      | 4.00               | - 0.10    | 185.5                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 220.000         | 190.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1970       | 197                                      | 4.00               | - 0.10    | 187.5                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 223.000         | 192.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-1980       | 198                                      | 4.00               | - 0.10    | 187.5                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 223.000         | 193.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2000       | 200                                      | 4.00               | - 0.10    | 190.5                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 230.000         | 195.0                | - 0.72    | 4.15                 | 2.50                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2020       | 202                                      | 5.00               | - 0.12    | 193.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 235.000         | 196.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2050       | 205                                      | 5.00               | - 0.12    | 193.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 243.000         | 199.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2070       | 207                                      | 5.00               | - 0.12    | 193.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 243.000         | 201.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2080       | 208                                      | 5.00               | - 0.12    | 193.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 243.000         | 202.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2100       | 210                                      | 5.00               | - 0.12    | 198.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 248.000         | 204.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2120       | 212                                      | 5.00               | - 0.12    | 198.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 248.000         | 206.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2150       | 215                                      | 5.00               | - 0.12    | 203.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 260.000         | 209.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2170       | 217                                      | 5.00               | - 0.12    | 203.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 260.000         | 211.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2180       | 218                                      | 5.00               | - 0.12    | 203.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 260.000         | 212.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2200       | 220                                      | 5.00               | - 0.12    | 208.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 265.000         | 214.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2220       | 222                                      | 5.00               | - 0.12    | 208.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 265.000         | 216.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2250       | 225                                      | 5.00               | - 0.12    | 213.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 280.000         | 219.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2270       | 227                                      | 5.00               | - 0.12    | 213.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 280.000         | 221.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2280       | 228                                      | 5.00               | - 0.12    | 213.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 280.000         | 222.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2300       | 230                                      | 5.00               | - 0.12    | 218.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 290.000         | 224.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2320       | 232                                      | 5.00               | - 0.12    | 218.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 290.000         | 226.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2350       | 235                                      | 5.00               | - 0.12    | 223.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 305.000         | 229.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2370       | 237                                      | 5.00               | - 0.12    | 223.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 305.000         | 231.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2380       | 238                                      | 5.00               | - 0.12    | 223.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 305.000         | 232.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2400       | 240                                      | 5.00               | - 0.12    | 228.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 310.000         | 234.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2420       | 242                                      | 5.00               | - 0.12    | 228.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 310.000         | 236.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2450       | 245                                      | 5.00               | - 0.12    | 233.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 325.000         | 239.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2470       | 247                                      | 5.00               | - 0.12    | 233.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 325.000         | 241.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2480       | 248                                      | 5.00               | - 0.12    | 233.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 325.000         | 242.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2500       | 250                                      | 5.00               | - 0.12    | 238.0                    | + 0.72 / - 1.70 | 14.2        | 14.0       | 4.0               | 335.000         | 244.0                | - 0.72    | 5.15                 | 3.00                       | HA 5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D1400-2520       | 252                                      | 5.00               | - 0.12    | 238.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 335.000         | 244.0                | - 0.72    | 5.15                 | 4.00                       | MAJ    |

| D1400 External Circlips - For Shafts - DIN 471                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                       |                    |           |                          |                 |             |            |                   |                   |                      |           |                      |                            |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|--------------------|-----------|--------------------------|-----------------|-------------|------------|-------------------|-------------------|----------------------|-----------|----------------------|----------------------------|--------|
| Data Chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Reference Number | Nominal Diameter (d1) | Circlip Dimensions |           |                          |                 |             |            |                   | Groove Dimensions |                      |           |                      |                            |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                       | Thickness (s)      | Tolerance | Unstressed Diameter (d2) | Tolerance       | Lug (a) max | Beam (b) ≈ | Lug Hole (ds) min | Weight Kg/1,000   | Groove Diameter (d2) | Tolerance | Min Groove Width (m) | Radial Depth of Groove (t) | Pliers |
|  <p><math>d_1 = 3 + 9 \text{ mm}</math></p> <p><math>d_1 &gt; 165 \text{ mm}</math></p> <p>Manufacturers Choice</p>  <p>Unstressed</p>     | D1400-2550       | 255                   | 5.00               | - 0.12    | 240.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 348.000           | 247.0                | - 0.72    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2570       | 257                   | 5.00               | - 0.12    | 240.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 348.000           | 249.0                | - 0.72    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2580       | 258                   | 5.00               | - 0.12    | 240.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 348.000           | 250.0                | - 0.72    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2600       | 260                   | 5.00               | - 0.12    | 245.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 355.000           | 252.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2620       | 262                   | 5.00               | - 0.12    | 245.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 355.000           | 254.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2650       | 265                   | 5.00               | - 0.12    | 250.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 370.000           | 257.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2670       | 267                   | 5.00               | - 0.12    | 250.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 370.000           | 259.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2680       | 268                   | 5.00               | - 0.12    | 250.0                    | + 0.72 / - 1.70 | 16.2        | 16.0       | 5.0               | 370.000           | 260.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2700       | 270                   | 5.00               | - 0.12    | 255.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 375.000           | 262.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2720       | 272                   | 5.00               | - 0.12    | 255.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 375.000           | 264.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2750       | 275                   | 5.00               | - 0.12    | 260.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 390.000           | 267.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2770       | 277                   | 5.00               | - 0.12    | 260.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 390.000           | 269.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2780       | 278                   | 5.00               | - 0.12    | 260.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 390.000           | 270.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2800       | 280                   | 5.00               | - 0.12    | 265.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 398.000           | 272.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2820       | 282                   | 5.00               | - 0.12    | 265.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 398.000           | 274.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2850       | 285                   | 5.00               | - 0.12    | 270.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 410.000           | 277.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2870       | 287                   | 5.00               | - 0.12    | 270.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 410.000           | 279.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2880       | 288                   | 5.00               | - 0.12    | 270.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 410.000           | 280.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2900       | 290                   | 5.00               | - 0.12    | 275.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 418.000           | 282.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2920       | 292                   | 5.00               | - 0.12    | 275.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 418.000           | 284.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2950       | 295                   | 5.00               | - 0.12    | 280.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 430.000           | 287.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2970       | 297                   | 5.00               | - 0.12    | 280.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 430.000           | 289.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-2980       | 298                   | 5.00               | - 0.12    | 280.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 430.000           | 290.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3000       | 300                   | 5.00               | - 0.12    | 285.0                    | + 0.81 / - 2.00 | 16.2        | 16.0       | 5.0               | 440.000           | 292.0                | - 0.81    | 5.15                 | 4.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3050       | 305                   | 6.00               | - 0.15    | 288.0                    | + 0.81 / - 2.00 | n/a         | 20.0       | 6.0               | 738.000           | 295.0                | - 0.81    | 6.20                 | 5.00                       | MAJ    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3100       | 310                   | 6.00               | - 0.15    | 293.0                    | + 0.81 / - 2.00 | n/a         | 20.0       | 6.0               | 750.000           | 300.0                | - 0.81    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3150       | 315                   | 6.00               | - 0.15    | 298.0                    | + 0.81 / - 2.00 | n/a         | 20.0       | 6.0               | 760.000           | 305.0                | - 0.81    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3200       | 320                   | 6.00               | - 0.15    | 303.0                    | + 0.81 / - 2.00 | n/a         | 20.0       | 6.0               | 770.000           | 310.0                | - 0.81    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3250       | 325                   | 6.00               | - 0.15    | 308.0                    | + 0.81 / - 2.00 | n/a         | 20.0       | 6.0               | 787.000           | 315.0                | - 0.81    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3300       | 330                   | 6.00               | - 0.15    | 313.0                    | + 0.81 / - 2.00 | n/a         | 20.0       | 6.0               | 800.000           | 320.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3350       | 335                   | 6.00               | - 0.15    | 318.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 826.000           | 325.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3400       | 340                   | 6.00               | - 0.15    | 323.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 840.000           | 330.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3450       | 345                   | 6.00               | - 0.15    | 328.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 845.000           | 335.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3500       | 350                   | 6.00               | - 0.15    | 333.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 850.000           | 340.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3550       | 355                   | 6.00               | - 0.15    | 338.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 865.000           | 345.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3600       | 360                   | 6.00               | - 0.15    | 343.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 880.000           | 350.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3650       | 365                   | 6.00               | - 0.15    | 348.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 885.000           | 355.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3700       | 370                   | 6.00               | - 0.15    | 353.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 890.000           | 360.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3750       | 375                   | 6.00               | - 0.15    | 358.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 910.000           | 365.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3800       | 380                   | 6.00               | - 0.15    | 363.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 930.000           | 370.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3850       | 385                   | 6.00               | - 0.15    | 368.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 940.000           | 375.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3900       | 390                   | 6.00               | - 0.15    | 373.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 950.000           | 380.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-3950       | 395                   | 6.00               | - 0.15    | 378.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 990.000           | 385.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4000       | 400                   | 6.00               | - 0.15    | 383.0                    | + 0.90 / - 2.00 | n/a         | 20.0       | 6.0               | 1,040.000         | 390.0                | - 0.89    | 6.20                 | 5.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4100       | 410                   | 7.00               | - 0.15    | 390.0                    | + 0.90 / - 2.00 | n/a         | 26.0       | 6.0               | 1,320.000         | 398.0                | - 0.89    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4200       | 420                   | 7.00               | - 0.15    | 400.0                    | + 0.90 / - 2.00 | n/a         | 26.0       | 6.0               | 1,360.000         | 408.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4300       | 430                   | 7.00               | - 0.15    | 410.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,390.000         | 418.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4400       | 440                   | 7.00               | - 0.15    | 420.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,420.000         | 428.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4500       | 450                   | 7.00               | - 0.15    | 430.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,450.000         | 438.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1400-4600       | 460                   | 7.00               | - 0.15    | 440.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,520.000         | 448.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |



# INDUSTRIAL WORLD

| D1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  | External Circlips - For Shafts - DIN 471 |                    |           |                          |                 |             |            |                   |                 |                      |           |                      |                            |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------|--------------------|-----------|--------------------------|-----------------|-------------|------------|-------------------|-----------------|----------------------|-----------|----------------------|----------------------------|--------|
| Data Chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reference Number | Nominal Diameter (d1)                    | Circlip Dimensions |           |                          |                 |             |            |                   |                 | Groove Dimensions    |           |                      |                            |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                                          | Thickness (s)      | Tolerance | Unstressed Diameter (d2) | Tolerance       | Lug (a) max | Beam (b) ≈ | Lug Hole (d3) min | Weight Kg/1.000 | Groove Diameter (d2) | Tolerance | Min Groove Width (m) | Radial Depth of Groove (t) | Pliers |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                                          |                    |           |                          |                 |             |            |                   |                 |                      |           |                      |                            |        |
|  <p><math>d_1 = 3 + 9 \text{ mm}</math></p> <p><math>d_1 &gt; 165 \text{ mm}</math></p> <p>Manufacturers Choice</p>  <p>Unstressed</p>    | D1400-4700       | 470                                      | 7.00               | - 0.15    | 450.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,590.000       | 458.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-4800       | 480                                      | 7.00               | - 0.15    | 460.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,660.000       | 468.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-4900       | 490                                      | 7.00               | - 0.15    | 470.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,725.000       | 478.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5000       | 500                                      | 7.00               | - 0.15    | 480.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 1,790.000       | 488.0                | - 1.00    | 7.20                 | 6.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5100       | 510                                      | 8.00               | - 0.15    | 485.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 2,300.000       | 496.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5200       | 520                                      | 8.00               | - 0.15    | 495.0                    | + 1.00 / - 2.00 | n/a         | 26.0       | 6.0               | 2,350.000       | 506.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5300       | 530                                      | 8.00               | - 0.15    | 505.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,400.000       | 516.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5400       | 540                                      | 8.00               | - 0.15    | 515.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,445.000       | 526.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5500       | 550                                      | 8.00               | - 0.15    | 525.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,490.000       | 536.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5600       | 560                                      | 8.00               | - 0.15    | 535.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,580.000       | 546.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5700       | 570                                      | 8.00               | - 0.15    | 545.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,670.000       | 556.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5800       | 580                                      | 8.00               | - 0.15    | 555.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,760.000       | 566.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-5900       | 590                                      | 8.00               | - 0.15    | 565.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,840.000       | 576.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-6000       | 600                                      | 8.00               | - 0.15    | 575.0                    | + 1.50 / - 3.00 | n/a         | 26.0       | 6.0               | 2,920.000       | 586.0                | - 1.00    | 8.20                 | 7.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-6500       | 650                                      | 9.00               | - 0.20    | 620.0                    | + 1.50 / - 3.00 | n/a         | 34.0       | 6.0               | 3,770.000       | 634.0                | - 1.00    | 9.30                 | 8.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-7000       | 700                                      | 9.00               | - 0.20    | 670.0                    | + 1.50 / - 3.00 | n/a         | 34.0       | 6.0               | 4,070.000       | 684.0                | - 1.00    | 9.30                 | 8.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-7500       | 750                                      | 9.00               | - 0.20    | 715.0                    | + 1.50 / - 3.00 | n/a         | 34.0       | 9.0               | 4,640.000       | 732.0                | - 1.00    | 9.30                 | 9.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-8000       | 800                                      | 9.00               | - 0.20    | 765.0                    | + 1.50 / - 3.00 | n/a         | 34.0       | 9.0               | 5,330.000       | 782.0                | - 1.00    | 9.30                 | 9.00                       | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-8500       | 850                                      | 9.00               | - 0.20    | 810.0                    | + 2.00 / - 4.00 | n/a         | 34.0       | 9.0               | 6,030.000       | 830.0                | - 1.00    | 9.30                 | 10.00                      | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-9000       | 900                                      | 9.00               | - 0.20    | 860.0                    | + 2.00 / - 4.00 | n/a         | 34.0       | 9.0               | 6,640.000       | 880.0                | - 1.00    | 9.30                 | 10.00                      | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D1400-9500       | 950                                      | 9.00               | - 0.20    | 900.0                    | + 2.00 / - 4.00 | n/a         | 34.0       | 9.0               | 7,260.000       | 928.0                | - 1.00    | 9.30                 | 11.00                      | SMAJ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                | 1000                                     | 9.00               | - 0.20    | 950.0                    | + 2.00 / - 4.00 | n/a         | 34.0       | 9.0               | 8,130.000       | 978.0                | - 1.00    | 9.30                 | 11.00                      | SMAJ   |

\*\* Rings in excess of 650mm nominal diameter are manufactured as concentric circlips.