

# Die spring ISO 10243



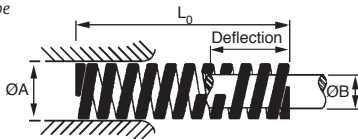
R Green: **light duty**

- ISO green standard (ISO 10243)
- Extra-rigid spring
- For light loads
- Trapezoidal wire
- Ends squared and ground
- Withstands shocks
- Tolerates shaking
- Easy to compress to solid height
- Material: chromium-vanadium steel



## Advantages

- The trapezoidal wire permits optimum deflection whilst protecting against the risk of damage caused by overloading the spring.
- Hardness sufficient to allow heavy loads to be withstood.
- Heat resistant up to 230°C.
- Uniform spring performance.
- Uniform stiffness ratio
- Greater load accuracy for a given height.
- Reliable performance.
- Reduced risk of breakage.



## Option

- Other sizes



## DISCOUNTS

| Qty   | 1+   | 6+   | 10+  | 20+  | 40+        |
|-------|------|------|------|------|------------|
| Disc. | List | -15% | -20% | -25% | On request |

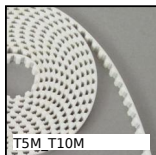
| Part number | Hole<br>ØA<br>(mm) | Rod<br>ØB<br>(mm) | Free<br>length<br>Lo<br>(mm) | Load at<br>1 mm<br>deflection<br>(N) | Load table                              |                    |                                      |                    |   |                    |                    |                    | Price<br>each<br>1 to 5 |
|-------------|--------------------|-------------------|------------------------------|--------------------------------------|---|--------------------|--------------------------------------|--------------------|---|--------------------|--------------------|--------------------|-------------------------|
|             |                    |                   |                              |                                      | Optimum life<br>(25% free<br>length Lo) |                    | Long life<br>(30% free<br>length Lo) |                    | Max. working<br>(35% free<br>length Lo) |                    | Max.<br>deflection |                    |                         |
|             |                    |                   |                              |                                      | Load<br>(N)                             | Deflection<br>(mm) | Load<br>(N)                          | Deflection<br>(mm) | Load<br>(N)                             | Deflection<br>(mm) | Load<br>(N)        | Deflection<br>(mm) |                         |
| R203104     | 10,0               | 5,0               | 25                           | 10,0                                 | 62,5                                    | 6,3                | 75,0                                 | 7,5                | 87,5                                    | 8,8                | 103,0              | 10,3               | 2,52 €                  |
| R203106     | 10,0               | 5,0               | 38                           | 6,8                                  | 64,6                                    | 9,5                | 77,5                                 | 11,4               | 90,4                                    | 13,3               | 106,1              | 15,6               | 2,73 €                  |
| R203108     | 10,0               | 5,0               | 51                           | 5,0                                  | 63,8                                    | 12,8               | 76,5                                 | 15,3               | 89,3                                    | 17,9               | 104,5              | 20,9               | 2,91 €                  |
| R203112     | 10,0               | 5,0               | 76                           | 3,2                                  | 60,8                                    | 19,0               | 73,0                                 | 22,8               | 85,1                                    | 26,6               | 99,8               | 31,2               | 3,54 €                  |
| R203204     | 12,5               | 6,3               | 25                           | 17,9                                 | 111,9                                   | 6,3                | 134,3                                | 7,5                | 156,6                                   | 8,8                | 184,4              | 10,3               | 2,81 €                  |
| R203206     | 12,5               | 6,3               | 38                           | 13,6                                 | 129,2                                   | 9,5                | 155,0                                | 11,4               | 180,9                                   | 13,3               | 212,2              | 15,6               | 3,34 €                  |
| R203208     | 12,5               | 6,3               | 51                           | 11,4                                 | 145,4                                   | 12,8               | 174,4                                | 15,3               | 203,5                                   | 17,9               | 238,3              | 20,9               | 3,85 €                  |
| R203212     | 12,5               | 6,3               | 76                           | 7,1                                  | 134,9                                   | 19,0               | 161,9                                | 22,8               | 188,9                                   | 26,6               | 221,5              | 31,2               | 4,84 €                  |
| R203248     | 12,5               | 6,3               | 305                          | 1,4                                  | 106,8                                   | 76,3               | 128,1                                | 91,5               | 149,5                                   | 106,8              | 175,0              | 125,0              | 10,51 €                 |
| R203304     | 16,0               | 8,0               | 25                           | 23,4                                 | 146,8                                   | 6,3                | 175,5                                | 7,5                | 204,8                                   | 8,8                | 241,0              | 10,3               | 2,99 €                  |
| R203306     | 16,0               | 8,0               | 38                           | 19,3                                 | 183,4                                   | 9,5                | 220,0                                | 11,4               | 256,7                                   | 13,3               | 301,1              | 15,6               | 3,85 €                  |
| R203308     | 16,0               | 8,0               | 51                           | 15,7                                 | 200,2                                   | 12,8               | 240,2                                | 15,3               | 280,2                                   | 17,9               | 328,1              | 20,9               | 4,41 €                  |
| R203312     | 16,0               | 8,0               | 76                           | 10,0                                 | 190,0                                   | 19,0               | 228,0                                | 22,8               | 266,0                                   | 26,6               | 312,0              | 31,2               | 5,36 €                  |
| R203316     | 16,0               | 8,0               | 102                          | 7,8                                  | 198,9                                   | 25,5               | 238,7                                | 30,6               | 278,5                                   | 35,7               | 326,0              | 41,8               | 4,88 €                  |
| R203404     | 20,0               | 10,0              | 25                           | 55,8                                 | 348,8                                   | 6,3                | 418,5                                | 7,5                | 488,3                                   | 8,8                | 569,2              | 10,2               | 3,54 €                  |
| R203406     | 20,0               | 10,0              | 38                           | 33,3                                 | 316,4                                   | 9,5                | 379,6                                | 11,4               | 442,9                                   | 13,3               | 499,5              | 15,0               | 4,06 €                  |

Dimensions in mm

| Part number | Hole<br>ØA<br>(mm) | Rod<br>ØB<br>(mm) | Free<br>length<br>Lo<br>(mm) | Load at<br>1 mm<br>deflection<br>(N) | Load table                              |                    |                                      |                    |   |                    |                    |                    | Price<br>each<br>1 to 5 |
|-------------|--------------------|-------------------|------------------------------|--------------------------------------|---|--------------------|--------------------------------------|--------------------|---|--------------------|--------------------|--------------------|-------------------------|
|             |                    |                   |                              |                                      | Optimum life<br>(25% free<br>length Lo) |                    | Long life<br>(30% free<br>length Lo) |                    | Max. working<br>(35% free<br>length Lo) |                    | Max.<br>deflection |                    |                         |
|             |                    |                   |                              |                                      | Load<br>(N)                             | Deflection<br>(mm) | Load<br>(N)                          | Deflection<br>(mm) | Load<br>(N)                             | Deflection<br>(mm) | Load<br>(N)        | Deflection<br>(mm) |                         |
| R203408     | 20,0               | 10,0              | 51                           | 24,5                                 | 312,4                                   | 12,8               | 374,9                                | 15,3               | 437,3                                   | 17,9               | 490,0              | 20,0               | 4,67 €                  |
| R203412     | 20,0               | 10,0              | 76                           | 16,0                                 | 304,0                                   | 19,0               | 364,8                                | 22,8               | 425,6                                   | 26,6               | 480,0              | 30,0               | 5,31 €                  |
| R203416     | 20,0               | 10,0              | 102                          | 12,0                                 | 306,0                                   | 25,5               | 367,2                                | 30,6               | 428,4                                   | 35,7               | 492,0              | 41,0               | 5,44 €                  |
| R203420     | 20,0               | 10,0              | 127                          | 9,5                                  | 301,6                                   | 31,8               | 362,0                                | 38,1               | 422,3                                   | 44,5               | 484,5              | 51,0               | 6,55 €                  |
| R203424     | 20,0               | 10,0              | 152                          | 7,5                                  | 285,0                                   | 38,0               | 342,0                                | 45,6               | 399,0                                   | 53,2               | 457,5              | 61,0               | 7,29 €                  |
| R203448     | 20,0               | 10,0              | 305                          | 4,0                                  | 305,0                                   | 76,3               | 366,0                                | 91,5               | 427,0                                   | 106,8              | 488,0              | 122,0              | 21,94 €                 |
| R203504     | 25,0               | 12,5              | 25                           | 100,0                                | 625,0                                   | 6,3                | 750,0                                | 7,5                | 875,0                                   | 8,8                | 1020,0             | 10,2               | 2,73 €                  |
| R203505     | 25,0               | 12,5              | 32                           | 80,3                                 | 642,4                                   | 8,0                | 770,9                                | 9,6                | 899,4                                   | 11,2               | 1003,8             | 12,5               | 4,49 €                  |
| R203506     | 25,0               | 12,5              | 38                           | 62,0                                 | 589,0                                   | 9,5                | 706,8                                | 11,4               | 824,6                                   | 13,3               | 930,0              | 15,0               | 4,62 €                  |
| R203507     | 25,0               | 12,5              | 44                           | 52,9                                 | 581,9                                   | 11,0               | 698,3                                | 13,2               | 814,7                                   | 15,4               | 952,2              | 18,0               | 5,70 €                  |
| R203508     | 25,0               | 12,5              | 51                           | 44,0                                 | 561,0                                   | 12,8               | 673,2                                | 15,3               | 785,4                                   | 17,9               | 880,0              | 20,0               | 6,38 €                  |
| R203510     | 25,0               | 12,5              | 64                           | 35,2                                 | 563,2                                   | 16,0               | 675,8                                | 19,2               | 788,5                                   | 22,4               | 880,0              | 25,0               | 7,06 €                  |
| R203512     | 25,0               | 12,5              | 76                           | 28,0                                 | 532,0                                   | 19,0               | 638,4                                | 22,8               | 744,8                                   | 26,6               | 840,0              | 30,0               | 8,01 €                  |
| R203514     | 25,0               | 12,5              | 89                           | 24,0                                 | 534,0                                   | 22,3               | 640,8                                | 26,7               | 747,6                                   | 31,2               | 840,0              | 35,0               | 8,53 €                  |
| R203516     | 25,0               | 12,5              | 102                          | 21,1                                 | 538,1                                   | 25,5               | 645,7                                | 30,6               | 753,3                                   | 35,7               | 865,1              | 41,0               | 8,10 €                  |
| R203518     | 25,0               | 12,5              | 115                          | 18,7                                 | 537,6                                   | 28,8               | 645,2                                | 34,5               | 752,7                                   | 40,3               | 860,2              | 46,0               | 8,91 €                  |
| R203520     | 25,0               | 12,5              | 127                          | 16,7                                 | 530,2                                   | 31,8               | 636,3                                | 38,1               | 742,3                                   | 44,5               | 851,7              | 51,0               | 9,86 €                  |
| R203522     | 25,0               | 12,5              | 139                          | 15,3                                 | 531,7                                   | 34,8               | 638,0                                | 41,7               | 744,3                                   | 48,7               | 856,8              | 56,0               | 10,98 €                 |
| R203524     | 25,0               | 12,5              | 152                          | 14,0                                 | 532,0                                   | 38,0               | 638,4                                | 45,6               | 744,8                                   | 53,2               | 854,0              | 61,0               | 11,80 €                 |
| R203528     | 25,0               | 12,5              | 178                          | 12,5                                 | 556,3                                   | 44,5               | 667,5                                | 53,4               | 778,8                                   | 62,3               | 887,5              | 71,0               | 13,27 €                 |
| R203532     | 25,0               | 12,5              | 203                          | 10,4                                 | 527,8                                   | 50,8               | 633,4                                | 60,9               | 738,9                                   | 71,1               | 842,4              | 81,0               | 14,85 €                 |
| R203548     | 25,0               | 12,5              | 305                          | 7,0                                  | 533,8                                   | 76,3               | 640,5                                | 91,5               | 747,3                                   | 106,8              | 854,0              | 122,0              | 30,99 €                 |
| R203606     | 32,0               | 16,0              | 38                           | 94,0                                 | 893,0                                   | 9,5                | 1071,6                               | 11,4               | 1250,2                                  | 13,3               | 1410,0             | 15,0               | 6,55 €                  |
| R203607     | 32,0               | 16,0              | 44                           | 79,5                                 | 874,5                                   | 11,0               | 1049,4                               | 13,2               | 1224,3                                  | 15,4               | 1431,0             | 18,0               | 7,06 €                  |
| R203608     | 32,0               | 16,0              | 51                           | 67,0                                 | 854,3                                   | 12,8               | 1025,1                               | 15,3               | 1196,0                                  | 17,9               | 1340,0             | 20,0               | 7,80 €                  |
| R203610     | 32,0               | 16,0              | 64                           | 53,0                                 | 848,0                                   | 16,0               | 1017,6                               | 19,2               | 1187,2                                  | 22,4               | 1325,0             | 25,0               | 8,87 €                  |
| R203612     | 32,0               | 16,0              | 76                           | 44,0                                 | 836,0                                   | 19,0               | 1003,2                               | 22,8               | 1170,4                                  | 26,6               | 1320,0             | 30,0               | 9,99 €                  |
| R203616     | 32,0               | 16,0              | 102                          | 32,0                                 | 816,0                                   | 25,5               | 979,2                                | 30,6               | 1142,4                                  | 35,7               | 1312,0             | 41,0               | 10,25 €                 |
| R203620     | 32,0               | 16,0              | 127                          | 25,0                                 | 793,8                                   | 31,8               | 952,5                                | 38,1               | 1111,3                                  | 44,5               | 1275,0             | 51,0               | 13,27 €                 |
| R203624     | 32,0               | 16,0              | 152                          | 21,5                                 | 817,0                                   | 38,0               | 980,4                                | 45,6               | 1143,8                                  | 53,2               | 1311,5             | 61,0               | 15,45 €                 |
| R203632     | 32,0               | 16,0              | 203                          | 15,8                                 | 801,9                                   | 50,8               | 962,2                                | 60,9               | 1122,6                                  | 71,1               | 1279,8             | 81,0               | 19,61 €                 |
| R203648     | 32,0               | 16,0              | 305                          | 10,3                                 | 785,4                                   | 76,3               | 942,5                                | 91,5               | 1099,5                                  | 106,8              | 1256,6             | 122,0              | 32,97 €                 |
| R203708     | 40,0               | 20,0              | 51                           | 92,0                                 | 1173,0                                  | 12,8               | 1407,6                               | 15,3               | 1642,2                                  | 17,9               | 1840,0             | 20,0               | 7,29 €                  |
| R203712     | 40,0               | 20,0              | 76                           | 63,0                                 | 1197,0                                  | 19,0               | 1436,4                               | 22,8               | 1675,8                                  | 26,6               | 1890,0             | 30,0               | 13,00 €                 |
| R203716     | 40,0               | 20,0              | 102                          | 43,0                                 | 1096,5                                  | 25,5               | 1315,8                               | 30,6               | 1535,1                                  | 35,7               | 1763,0             | 41,0               | 14,46 €                 |
| R203720     | 40,0               | 20,0              | 127                          | 37,0                                 | 1174,8                                  | 31,8               | 1409,7                               | 38,1               | 1644,7                                  | 44,5               | 1887,0             | 51,0               | 18,50 €                 |
| R203724     | 40,0               | 20,0              | 152                          | 28,0                                 | 1064,0                                  | 38,0               | 1276,8                               | 45,6               | 1489,6                                  | 53,2               | 1708,0             | 61,0               | 21,20 €                 |
| R203732     | 40,0               | 20,0              | 203                          | 22,7                                 | 1152,0                                  | 50,8               | 1382,4                               | 60,9               | 1612,8                                  | 71,1               | 1838,7             | 81,0               | 26,58 €                 |
| R203748     | 40,0               | 20,0              | 305                          | 14,8                                 | 1128,5                                  | 76,3               | 1354,2                               | 91,5               | 1579,9                                  | 106,8              | 1805,6             | 122,0              | 40,65 €                 |
| R203810     | 50,0               | 25,0              | 64                           | 156,0                                | 2496,0                                  | 16,0               | 2995,2                               | 19,2               | 3494,4                                  | 22,4               | 3900,0             | 25,0               | 14,03 €                 |
| R203814     | 50,0               | 25,0              | 89                           | 109,0                                | 2425,3                                  | 22,3               | 2910,3                               | 26,7               | 3395,4                                  | 31,2               | 3815,0             | 35,0               | 18,41 €                 |
| R203818     | 50,0               | 25,0              | 115                          | 81,0                                 | 2328,8                                  | 28,8               | 2794,5                               | 34,5               | 3260,3                                  | 40,3               | 3726,0             | 46,0               | 24,12 €                 |
| R203822     | 50,0               | 25,0              | 139                          | 66,5                                 | 2310,9                                  | 34,8               | 2773,1                               | 41,7               | 3235,2                                  | 48,7               | 3724,0             | 56,0               | 28,50 €                 |
| R203828     | 50,0               | 25,0              | 178                          | 52,0                                 | 2314,0                                  | 44,5               | 2776,8                               | 53,4               | 3239,6                                  | 62,3               | 3692,0             | 71,0               | 33,91 €                 |
| R203840     | 50,0               | 25,0              | 254                          | 35,0                                 | 2222,5                                  | 63,5               | 2667,0                               | 76,2               | 3111,5                                  | 88,9               | 3570,0             | 102,0              | 48,94 €                 |
| R203912     | 63,0               | 38,0              | 76                           | 189,0                                | 3591,0                                  | 19,0               | 4309,2                               | 22,8               | 5027,4                                  | 26,6               | 5670,0             | 30,0               | 30,99 €                 |
| R203916     | 63,0               | 38,0              | 102                          | 131,0                                | 3340,5                                  | 25,5               | 4008,6                               | 30,6               | 4676,7                                  | 35,7               | 5371,0             | 41,0               | 43,62 €                 |
| R203920     | 63,0               | 38,0              | 127                          | 103,0                                | 3270,3                                  | 31,8               | 3924,3                               | 38,1               | 4578,4                                  | 44,5               | 5253,0             | 51,0               | 48,94 €                 |
| R203928     | 63,0               | 38,0              | 178                          | 71,5                                 | 3181,8                                  | 44,5               | 3818,1                               | 53,4               | 4454,5                                  | 62,3               | 5076,5             | 71,0               | 61,71 €                 |
| R203940     | 63,0               | 38,0              | 254                          | 47,0                                 | 2984,5                                  | 63,5               | 3581,4                               | 76,2               | 4178,3                                  | 88,9               | 4794,0             | 102,0              | 90,31 €                 |

Dimensions in mm

## Our other products



T5M T10M

T type timing belt per metre, T10 Steel cored polyurethane



M0

Worm and wheel set,  
Non hardened steel



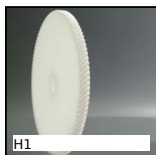
HCV

V- rail guidance  
Simple Select®  
system, on rail



SLVVlok

Vertical toggle clamp,  
Vertical toggle clamp /  
vertical foot



H1

Crossed helical gear  
crossed axis at 90°,  
Machined plastic  
(delrin)



LR

Precision locknut,  
Precision locknut



CLB\_M

Die cast zinc clamping  
lever - female, Zamak



PO

Pull handle - Multi-  
sector, Tapped  
recessed insert



AT10-BAR

AT type tooth bar  
stock, AT10



AT5courroie

AT type timing belt,  
AT5 Steel cored



DB\_ECO

Eco. range steel bevel  
gear, 2:1



BAC110

Swivel storage bin,  
Adjustable support

## Complementary products



R204

Die spring ISO10243,  
Average



R205

Die spring ISO10243,  
Heavy



CDC

Conical compression  
spring, Conical



CDGamme

Compression spring  
DIN2095, DIN 2095