

Arcuri pentru matrițe de sârmă  
**Secțiune ovală**

Die Springs  
**Oval cross section**

> **Alegerea modelului**

Arcurile din acest catalog sunt produse din sârmă cu secțiune ovală și împărțite în serii, cu valori diferite de sarcină și cursă, dar cu aceleași dimensiuni gabaritice. Fiecare serie are propria sa culoare caracteristică, ce permite o identificare ușoară și imediată.

Selectarea arcului este facilitată de valorile din catalog, care indică sarcina și cursa în două ipostaze diferite de comprimare.

Următorul tabel rezumă deformările calculate pentru fiecare serie.

> **Spring selection**

*The springs in this catalogue are made from oval cross-section wire are subdivided in four series.*

*Each has a different load and deflection but with the same dimensions. Each series has its own color which allows easy identification.*

*The selection of springs is facilitated by the following tables in our catalogue, in which two different working deflection hypothesis are shown.*

*The following table summarizes the percentages of deflection calculated for each series.*



## > Toleranțe

**Constantă:**  $\pm 10\%$ ;

**Lungime liberă:**  $\pm 1\%$ , cu minim  $\pm 1$  mm;

**Diametrul exterior:** diametrul exterior al arcului este întotdeauna mai mic decât diametrul bușei indicat în catalog;

**Diametrul intern:** diametrul interior al arcului este întotdeauna mai mare decât diametrul dornului de ghidare indicat în catalog.

## > Cum se comandă?

Pentru a comanda arcurile din acest catalog, trebuie doar să ne indicați articolul și cantitatea.

De exemplu: L4S26102 - 50 buc

Este o comandă pentru 50 de arcuri din seria sarcină foarte mare (culoare verde) cu diametrul exterior de 26 mm și lungime liberă de 102 mm.

## > Tolerances

**Spring rate:**  $\pm 10\%$ ;

**Free length:**  $\pm 1\%$ , with a minimum of  $\pm 1$  mm;

**External diameter:** the external diameter of the spring is always smaller than the housing diameter indicated in the catalogue; **Internal diameter:** the internal diameter of the spring is always greater than the diameter of the guiding pin indicated in the catalogue.

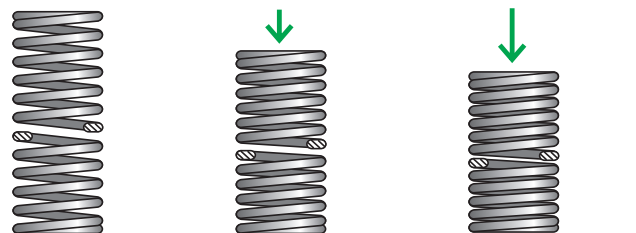
## > How to order?

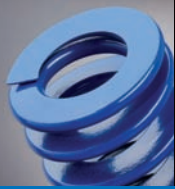
When ordering, please specify the catalogue number and the quantity of springs.

For example: L4S26102 No. 50

It is an order for 50 springs of the Extra Heavy series (green colour) with a 26 mm housing diameter and with a 102 mm free length.

| Serie                | XLL<br>Deformare totală<br>ciclu lung de viață  | Max<br>Deformare totală<br>maxim admis                 |
|----------------------|---|--|
| <small>Serie</small> | <small>Viață lungă<br/>deformare totală</small> | <small>Funcționare maximă<br/>deformare totală</small> |
| L1S                  | 25%   | 50%  |
| L2S                  | 20%   | 37%  |
| L3S                  | 15%   | 30%  |
| L4S                  | 15%   | 25%  |



# L1S



# L2S

**HENNLICH**

## Sarcină mică

## Sarcină medie

| L <sub>0</sub><br>Lungime liberă<br>Free length<br>mm | Nr. articol<br>Ctlg. No. | R<br>Constantă<br>Rate<br>N/mm | XLL 25%                                 |  | Max 50%                                 |  | Nr. articol<br>Ctlg. No. | R<br>Constantă<br>Rate<br>N/mm | XLL20%                                  |  | Max 37%                                 |  |
|---|--------------------------|--------------------------------|---|--|---|--|--------------------------|--------------------------------|---|--|---|--|
|   |                          |                                | S <sub>1</sub><br>Cursă<br>Stroke<br>mm | F <sub>1</sub><br>Sarcină<br>Load<br>N | S <sub>2</sub><br>Cursă<br>Stroke<br>mm | F <sub>2</sub><br>Sarcină<br>Load<br>N |                          |                                | S <sub>1</sub><br>Cursă<br>Stroke<br>mm | F <sub>1</sub><br>Sarcină<br>Load<br>N | S <sub>2</sub><br>Cursă<br>Stroke<br>mm | F <sub>2</sub><br>Sarcină<br>Load<br>N |

### (D) Bucșă • Housing Ø 10 mm

### (d) Dorn • Rod Ø 4,5 mm

| Secțiunea sârmei de arc • Wire section 1,7 x 1,0 * |          |     |      |    |       |     | Secțiunea sârmei de arc • Wire section 1,8 x 1,1 * |      |      |    |       |     |
|--|----------|-----|------|----|-------|-----|--|------|------|----|-------|-----|
| 25   | L1S10025 | 9,8 | 6,3  | 61 | 12,5  | 123 | L2S10025   | 15,8 | 5,0  | 79 | 9,3   | 146 |
| 32   | L1S10032 | 8,4 | 8,0  | 67 | 16,0  | 134 | L2S10032   | 12,8 | 6,4  | 82 | 11,8  | 152 |
| 38   | L1S10038 | 6,7 | 9,5  | 64 | 19,0  | 127 | L2S10038   | 11,7 | 7,6  | 89 | 14,1  | 165 |
| 44   | L1S10044 | 6,0 | 11,0 | 66 | 22,0  | 132 | L2S10044   | 10,2 | 8,8  | 90 | 16,3  | 166 |
| 51   | L1S10051 | 4,9 | 12,8 | 62 | 25,5  | 125 | L2S10051   | 8,8  | 10,2 | 90 | 18,9  | 166 |
| 64   | L1S10064 | 4,2 | 16,0 | 67 | 32,0  | 134 | L2S10064   | 7,4  | 12,8 | 95 | 23,7  | 175 |
| 76   | L1S10076 | 3,2 | 19,0 | 61 | 38,0  | 122 | L2S10076   | 5,3  | 15,2 | 81 | 28,1  | 149 |
| 305  | L1S10305 | 1,1 | 76,3 | 84 | 152,5 | 168 | L2S10305   | 1,6  | 61,0 | 98 | 112,9 | 181 |

### (D) Bucșă • Housing Ø 13 mm

### (d) Dorn • Rod Ø 7 mm

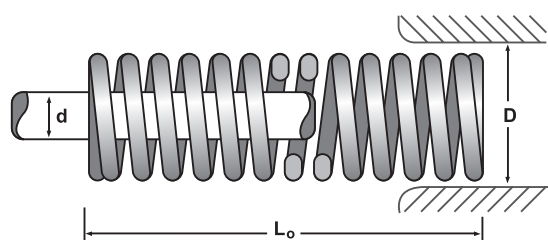
| Secțiunea sârmei de arc • Wire section 2,4 x 1,3 * |          |      |      |     |       |     | Secțiunea sârmei de arc • Wire section 2,5 x 1,3 * |      |      |     |       |     |
|--|----------|------|------|-----|-------|-----|--|------|------|-----|-------|-----|
| 25   | L1S13025 | 17,5 | 6,3  | 109 | 12,5  | 219 | L2S13025   | 29,4 | 5,0  | 147 | 9,3   | 272 |
| 32   | L1S13032 | 16,1 | 8,0  | 129 | 16,0  | 258 | L2S13032   | 24,3 | 6,4  | 156 | 11,8  | 288 |
| 38   | L1S13038 | 13,3 | 9,5  | 126 | 19,0  | 253 | L2S13038   | 21,0 | 7,6  | 160 | 14,1  | 295 |
| 44   | L1S13044 | 11,9 | 11,0 | 131 | 22,0  | 262 | L2S13044   | 18,2 | 8,8  | 160 | 16,3  | 296 |
| 51   | L1S13051 | 11,2 | 12,8 | 143 | 25,5  | 286 | L2S13051   | 15,2 | 10,2 | 155 | 18,9  | 287 |
| 64   | L1S13064 | 9,1  | 16,0 | 146 | 32,0  | 291 | L2S13064   | 11,9 | 12,8 | 152 | 23,7  | 282 |
| 76   | L1S13076 | 7,0  | 19,0 | 133 | 38,0  | 266 | L2S13076   | 10,0 | 15,2 | 152 | 28,1  | 281 |
| 89   | L1S13089 | 5,3  | 22,3 | 118 | 44,5  | 236 | L2S13089   | 8,2  | 17,8 | 146 | 32,9  | 270 |
| 305  | L1S13305 | 1,4  | 76,3 | 107 | 152,5 | 214 | L2S13305   | 2,1  | 61,0 | 128 | 112,9 | 237 |

### (D) Bucșă • Housing Ø 16 mm

### (d) Dorn • Rod Ø 8,5 mm

| Secțiunea sârmei de arc • Wire section 3,2 x 1,5 * |          |      |      |     |       |     | Secțiunea sârmei de arc • Wire section 3,2 x 1,9 * |      |      |     |       |     |
|--|----------|------|------|-----|-------|-----|--|------|------|-----|-------|-----|
| 25   | L1S16025 | 22,8 | 6,3  | 143 | 12,5  | 285 | L2S16025   | 48,5 | 5,0  | 243 | 9,3   | 449 |
| 32   | L1S16032 | 22,4 | 8,0  | 179 | 16,0  | 358 | L2S16032   | 36,4 | 6,4  | 233 | 11,8  | 431 |
| 38   | L1S16038 | 18,9 | 9,5  | 180 | 19,0  | 359 | L2S16038   | 33,3 | 7,6  | 253 | 14,1  | 468 |
| 44   | L1S16044 | 16,8 | 11,0 | 185 | 22,0  | 370 | L2S16044   | 29,4 | 8,8  | 259 | 16,3  | 479 |
| 51   | L1S16051 | 15,4 | 12,8 | 196 | 25,5  | 393 | L2S16051   | 25,9 | 10,2 | 264 | 18,9  | 489 |
| 64   | L1S16064 | 10,5 | 16,0 | 168 | 32,0  | 336 | L2S16064   | 20,1 | 12,8 | 257 | 23,7  | 476 |
| 76   | L1S16076 | 9,8  | 19,0 | 186 | 38,0  | 372 | L2S16076   | 17,5 | 15,2 | 266 | 28,1  | 492 |
| 89   | L1S16089 | 8,4  | 22,3 | 187 | 44,5  | 374 | L2S16089   | 14,9 | 17,8 | 265 | 32,9  | 491 |
| 102  | L1S16102 | 7,7  | 25,5 | 196 | 51,0  | 393 | L2S16102   | 13,3 | 20,4 | 271 | 37,7  | 502 |
| 305  | L1S16305 | 2,5  | 76,3 | 191 | 152,5 | 381 | L2S16305   | 4,7  | 61,0 | 287 | 112,9 | 530 |

\* - dimensiunile secțiunii arcului sunt aproximative



L<sub>0</sub> Lungime liberă mm  
Free length mm

D Bucșă Ø mm  
Housing Ø mm

d Dorn Ø mm  
Rod Ø mm

R Încărcarea arcului în Newton  
necesară pentru comprimarea  
acestuia cu 1 mm  
(1N = 0,102 kg, 1kg = 9,81 N)  
Load, in Newton (N),  
necessary to deflect  
the spring by mm 1  
(1N = 0,102 kg, 1kg = 9,81 N)



# L3S



# L4S

**HENNLICH**

## Sarcină mare

## Sarcină foarte mare

**Lo**lungime liberă  
Free length  
mm

| Lo | Nr. articol<br>Ctlg. No. | R.<br>Constantă<br>Rate<br>N/mm | XLL 15% |     | Max 30% |     | Nr. articol<br>Ctlg. No. | R.<br>Constantă<br>Rate<br>N/mm | XLL 15% |     | Max 25% |     |
|----|--------------------------|---------------------------------|---------|-----|---------|-----|--------------------------|---------------------------------|---------|-----|---------|-----|
|    |                          |                                 | S.1     | F.1 | S.2     | F.2 |                          |                                 | S.1     | F.1 | S.2     | F.2 |

| (D) Bucșă • Housing Ø 10 mm |  |  |  |  |  |  | (d) Dorn • Rod Ø 4,5 mm |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|-------------------------|--|--|--|--|--|
|-----------------------------|--|--|--|--|--|--|-------------------------|--|--|--|--|--|

| Secțiunea sârmei de arc • Wire section 1,8 x 1,4 * |          |      |      |     |      |     | Secțiunea sârmei de arc • Wire section 20 x 1,5 * |      |      |     |      |     |
|--|----------|------|------|-----|------|-----|---|------|------|-----|------|-----|
| 25   | L3S10025 | 21,7 | 3,8  | 81  | 7,5  | 163 | L4S10025  | 38,5 | 3,8  | 144 | 6,3  | 241 |
| 32   | L3S10032 | 17,2 | 4,8  | 83  | 9,6  | 165 | L4S10032  | 29,8 | 4,8  | 143 | 8,0  | 238 |
| 38   | L3S10038 | 16,8 | 5,7  | 96  | 11,4 | 192 | L4S10038  | 25,4 | 5,7  | 145 | 9,5  | 241 |
| 44   | L3S10044 | 14,7 | 6,6  | 97  | 13,2 | 194 | L4S10044  | 20,1 | 6,6  | 133 | 11,0 | 221 |
| 51   | L3S10051 | 12,6 | 7,7  | 96  | 15,3 | 193 | L4S10051  | 17,5 | 7,7  | 134 | 12,8 | 223 |
| 64   | L3S10064 | 10,5 | 9,6  | 101 | 19,2 | 202 | L4S10064  | 14,0 | 9,6  | 134 | 16,0 | 224 |
| 76   | L3S10076 | 7,4  | 11,4 | 84  | 22,8 | 169 | L4S10076  | 11,4 | 11,4 | 130 | 19,0 | 217 |
| 305  | L3S10305 | 2,1  | 45,8 | 96  | 91,5 | 192 | L4S10305  | 2,6  | 45,8 | 119 | 76,3 | 198 |

| (D) Bucșă • Housing Ø 13 mm |  |  |  |  |  |  | (d) Dorn • Rod Ø 7 mm |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|-----------------------|--|--|--|--|--|
|-----------------------------|--|--|--|--|--|--|-----------------------|--|--|--|--|--|

| Secțiunea sârmei de arc • Wire section 2,5 x 1,9 * |          |      |      |     |      |     | Secțiunea sârmei de arc • Wire section 1,4 x 2,3 * |      |      |     |      |     |
|--|----------|------|------|-----|------|-----|--|------|------|-----|------|-----|
| 25   | L3S13025 | 41,3 | 3,8  | 155 | 7,5  | 310 | L4S13025   | 56,0 | 3,8  | 210 | 6,3  | 350 |
| 32   | L3S13032 | 32,6 | 4,8  | 156 | 9,6  | 313 | L4S13032   | 42,0 | 4,8  | 202 | 8,0  | 336 |
| 38   | L3S13038 | 28,7 | 5,7  | 164 | 11,4 | 327 | L4S13038   | 35,0 | 5,7  | 200 | 9,5  | 333 |
| 44   | L3S13044 | 24,2 | 6,6  | 160 | 13,2 | 319 | L4S13044   | 29,8 | 6,6  | 197 | 11,0 | 328 |
| 51   | L3S13051 | 19,3 | 7,7  | 148 | 15,3 | 295 | L4S13051   | 24,5 | 7,7  | 187 | 12,8 | 312 |
| 64   | L3S13064 | 14,7 | 9,6  | 141 | 19,2 | 282 | L4S13064   | 20,1 | 9,6  | 193 | 16,0 | 322 |
| 76   | L3S13076 | 13,0 | 11,4 | 148 | 22,8 | 296 | L4S13076   | 15,8 | 11,4 | 180 | 19,0 | 300 |
| 89   | L3S13089 | 11,2 | 13,4 | 150 | 26,7 | 299 | L4S13089   | 14,0 | 13,4 | 187 | 22,3 | 312 |
| 305  | L3S13305 | 2,8  | 45,8 | 128 | 91,5 | 256 | L4S13305   | 4,4  | 45,8 | 201 | 76,3 | 336 |

| (D) Bucșă • Housing Ø 16 mm |  |  |  |  |  |  | (d) Dorn • Rod Ø 8,5 mm |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|-------------------------|--|--|--|--|--|
|-----------------------------|--|--|--|--|--|--|-------------------------|--|--|--|--|--|

| Secțiunea sârmei de arc • Wire section 3,2 x 2,4 * |          |      |      |     |      |     | Secțiunea sârmei de arc • Wire section 3,2 x 2,8 * |       |      |     |      |     |
|--|----------|------|------|-----|------|-----|--|-------|------|-----|------|-----|
| 25   | L3S16025 | 74,3 | 3,8  | 279 | 7,5  | 557 | L4S16025   | 110,0 | 3,8  | 413 | 6,3  | 688 |
| 32   | L3S16032 | 51,8 | 4,8  | 249 | 9,6  | 497 | L4S16032   | 82,0  | 4,8  | 394 | 8,0  | 656 |
| 38   | L3S16038 | 47,6 | 5,7  | 271 | 11,4 | 543 | L4S16038   | 66,0  | 5,7  | 376 | 9,5  | 627 |
| 44   | L3S16044 | 42,0 | 6,6  | 277 | 13,2 | 554 | L4S16044   | 56,0  | 6,6  | 370 | 11,0 | 616 |
| 51   | L3S16051 | 36,4 | 7,7  | 278 | 15,3 | 557 | L4S16051   | 51,0  | 7,7  | 390 | 12,8 | 650 |
| 64   | L3S16064 | 29,8 | 9,6  | 286 | 19,2 | 572 | L4S16064   | 39,0  | 9,6  | 374 | 16,0 | 624 |
| 76   | L3S16076 | 25,2 | 11,4 | 287 | 22,8 | 575 | L4S16076   | 32,0  | 11,4 | 365 | 19,0 | 608 |
| 89   | L3S16089 | 21,4 | 13,4 | 286 | 26,7 | 571 | L4S16089   | 28,0  | 13,4 | 374 | 22,3 | 623 |
| 102  | L3S16102 | 18,9 | 15,3 | 289 | 30,6 | 578 | L4S16102   | 24,0  | 15,3 | 367 | 25,5 | 612 |
| 305  | L3S16305 | 7,0  | 45,8 | 320 | 91,5 | 641 | L4S16305   | 8,0   | 45,8 | 366 | 76,3 | 610 |

\* - dimensiunile secțiunii arcului sunt aproximative

XLL % Cursă pe durată lungă  
Long Life deflectionMax % Cursă maximă  
Max working deflectionS<sub>1</sub> Cursă 1 mm  
Deflection 1 mmF<sub>1</sub> Sarcină / Forță 1 N  
Load 1 NS<sub>2</sub> Cursă 2 mm  
Deflection 2 mmF<sub>2</sub> Sarcină / Forță 2 N  
Load 2 N





# L1S



# L2S



## Sarcină mică

| L <sub>0</sub>                      | R.                      | XLL 25%                   |                       | Max 50%              |                       |                      |
|-------------------------------------|-------------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|
|                                     |                         | S.1                       | F.1                   | S.2                  | F.2                   |                      |
| Lungime liberă<br>Free length<br>mm | Nr. articol<br>Ctg. No. | Constantă<br>Rate<br>N/mm | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N |

## Sarcină medie

| R.                      | XLL 20%                   |                       | Max 37%              |                       |                      |
|-------------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|
|                         | S.1                       | F.1                   | S.2                  | F.2                   |                      |
| Nr. articol<br>Ctg. No. | Constantă<br>Rate<br>N/mm | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N |

### (D) Bucșă • Housing Ø 19 mm

### (d) Dorn • Rod Ø 10 mm

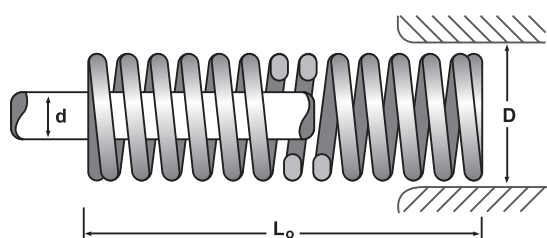
| Secțiunea sârmei de arc • Wire section 4,1 x 1,9 * |          |      |      |     |       |     | Secțiunea sârmei de arc • Wire section 4,0 x 1,9 * |       |      |     |       |     |
|--|----------|------|------|-----|-------|-----|--|-------|------|-----|-------|-----|
| 25   | L1S19025 | 54,6 | 6,3  | 341 | 12,5  | 683 | L2S19025   | 100,9 | 5,0  | 505 | 9,3   | 933 |
| 32   | L1S19032 | 44,8 | 8,0  | 358 | 16,0  | 717 | L2S19032   | 78,5  | 6,4  | 502 | 11,8  | 929 |
| 38   | L1S19038 | 35,0 | 9,5  | 333 | 19,0  | 665 | L2S19038   | 56,0  | 7,6  | 426 | 14,1  | 787 |
| 44   | L1S19044 | 30,8 | 11,0 | 339 | 22,0  | 678 | L2S19044   | 50,4  | 8,8  | 444 | 16,3  | 821 |
| 51   | L1S19051 | 25,2 | 12,8 | 321 | 25,5  | 643 | L2S19051   | 43,4  | 10,2 | 443 | 18,9  | 819 |
| 64   | L1S19064 | 21,0 | 16,0 | 336 | 32,0  | 672 | L2S19064   | 33,6  | 12,8 | 430 | 23,7  | 796 |
| 76   | L1S19076 | 16,8 | 19,0 | 319 | 38,0  | 638 | L2S19076   | 25,2  | 15,2 | 383 | 28,1  | 709 |
| 89   | L1S19089 | 14,0 | 22,3 | 312 | 44,5  | 623 | L2S19089   | 22,4  | 17,8 | 399 | 32,9  | 738 |
| 102  | L1S19102 | 12,6 | 25,5 | 321 | 51,0  | 643 | L2S19102   | 21,0  | 20,4 | 428 | 37,7  | 793 |
| 115  | L1S19115 | 11,2 | 28,8 | 322 | 57,5  | 644 | L2S19115   | 19,6  | 23,0 | 451 | 42,6  | 834 |
| 127  | L1S19127 | 9,8  | 31,8 | 311 | 63,5  | 622 | L2S19127   | 18,2  | 25,4 | 462 | 47,0  | 855 |
| 139  | L1S19139 | 8,4  | 34,8 | 292 | 69,5  | 584 | L2S19139   | 16,8  | 27,8 | 467 | 51,4  | 864 |
| 152  | L1S19152 | 7,0  | 38,0 | 266 | 76,0  | 532 | L2S19152   | 14,0  | 30,4 | 426 | 56,2  | 787 |
| 305  | L1S19305 | 4,2  | 76,3 | 320 | 152,5 | 641 | L2S19305   | 6,3   | 61,0 | 384 | 112,9 | 711 |

### (D) Bucșă • Housing Ø 26 mm

### (d) Dorn • Rod Ø 12,5 mm

| Secțiunea sârmei de arc • Wire section 5,4 x 2,6 * |          |      |      |     |       |      | Secțiunea sârmei de arc • Wire section 5,4 x 3,0 * |       |      |     |       |      |
|--|----------|------|------|-----|-------|------|--|-------|------|-----|-------|------|
| 25   | L1S26025 | 93,9 | 6,3  | 587 | 12,5  | 1174 | L2S26025   | 126,0 | 5,0  | 630 | 9,3   | 1166 |
| 32   | L1S26032 | 76,4 | 8,0  | 611 | 16,0  | 1222 | L2S26032   | 109,0 | 6,4  | 698 | 11,8  | 1291 |
| 38   | L1S26038 | 58,8 | 9,5  | 559 | 19,0  | 1117 | L2S26038   | 87,0  | 7,6  | 661 | 14,1  | 1223 |
| 44   | L1S26044 | 50,4 | 11,0 | 554 | 22,0  | 1109 | L2S26044   | 77,0  | 8,8  | 678 | 16,3  | 1254 |
| 51   | L1S26051 | 40,6 | 12,8 | 518 | 25,5  | 1035 | L2S26051   | 64,0  | 10,2 | 653 | 18,9  | 1208 |
| 64   | L1S26064 | 35,0 | 16,0 | 560 | 32,0  | 1120 | L2S26064   | 50,0  | 12,8 | 640 | 23,7  | 1184 |
| 76   | L1S26076 | 26,6 | 19,0 | 505 | 38,0  | 1011 | L2S26076   | 41,0  | 15,2 | 623 | 28,1  | 1153 |
| 89   | L1S26089 | 22,4 | 22,3 | 498 | 44,5  | 997  | L2S26089   | 38,0  | 17,8 | 676 | 32,9  | 1251 |
| 102  | L1S26102 | 21,0 | 25,5 | 536 | 51,0  | 1071 | L2S26102   | 32,0  | 20,4 | 653 | 37,7  | 1208 |
| 115  | L1S26115 | 18,2 | 28,8 | 523 | 57,5  | 1047 | L2S26115   | 27,0  | 23,0 | 621 | 42,6  | 1149 |
| 127  | L1S26127 | 16,8 | 31,8 | 533 | 63,5  | 1067 | L2S26127   | 25,0  | 25,4 | 635 | 47,0  | 1175 |
| 139  | L1S26139 | 15,4 | 34,8 | 535 | 69,5  | 1070 | L2S26139   | 22,0  | 27,8 | 612 | 51,4  | 1131 |
| 152  | L1S26152 | 14,0 | 38,0 | 532 | 76,0  | 1064 | L2S26152   | 20,0  | 30,4 | 608 | 56,2  | 1125 |
| 178  | L1S26178 | 12,6 | 44,5 | 561 | 89,0  | 1121 | L2S26178   | 17,0  | 35,6 | 605 | 65,9  | 1120 |
| 203  | L1S26203 | 9,8  | 50,8 | 497 | 101,5 | 995  | L2S26203   | 15,0  | 40,6 | 609 | 75,1  | 1127 |
| 305  | L1S26305 | 7,0  | 76,3 | 534 | 152,5 | 1068 | L2S26305   | 10,0  | 61,0 | 610 | 112,9 | 1129 |

\* - dimensiunile secțiunii arcului sunt aproximative



L<sub>0</sub> Lungime liberă mm  
Free length mm

D Bucșă Ø mm  
Housing Ø mm

d Dorn Ø mm  
Rod Ø mm

R Încărcarea arcului în Newton  
necesară pentru comprimarea  
acestuia cu 1 mm  
(1N = 0,102 kg, 1kg = 9,81 N)  
Load, in Newton (N),  
necessary to deflect  
the spring by mm 1  
(1N = 0,102 kg, 1kg = 9,81 N)



# L3S



# L4S

**HENNLICH**

## Sarcină mare

## Sarcină foarte mare

**Lo****R.****XLL 15%****Max 30%**S<sub>1</sub>F<sub>1</sub>S<sub>2</sub>F<sub>2</sub>**R.****XLL 15%****Max 25%**S<sub>1</sub>F<sub>1</sub>S<sub>2</sub>F<sub>2</sub>Lungime liberă  
Free length  
mmNr. articol  
Ctlg. No.Constantă  
Rate  
N/mmCursă  
Stroke  
mmSarcină  
Load  
NCursă  
Stroke  
mmSarcină  
Load  
NNr. articol  
Ctlg. No.Constantă  
Rate  
N/mmCursă  
Stroke  
mmSarcină  
Load  
NCursă  
Stroke  
mmSarcină  
Load  
N

## (D) Bucșă • Housing Ø 19 mm

## (d) Dorn • Rod Ø 10 mm

Secțiunea sârmei de arc • Wire section **1,8 x 1,4 \***Secțiunea sârmei de arc • Wire section **20 x 1,5 \***

|            |          | <b>189,0</b> | 3,8  | 709 | 7,5  | 1418 |          | <b>245,0</b> | 3,8  | 919 | 6,3  | 1531 |
|------------|----------|--------------|------|-----|------|------|----------|--------------|------|-----|------|------|
| <b>25</b>  | L3S19025 | <b>189,0</b> | 3,8  | 709 | 7,5  | 1418 | L4S19025 | <b>245,0</b> | 3,8  | 919 | 6,3  | 1531 |
| <b>32</b>  | L3S19032 | <b>152,0</b> | 4,8  | 730 | 9,6  | 1459 | L4S19032 | <b>193,0</b> | 4,8  | 926 | 8,0  | 1544 |
| <b>38</b>  | L3S19038 | <b>115,0</b> | 5,7  | 656 | 11,4 | 1311 | L4S19038 | <b>156,0</b> | 5,7  | 889 | 9,5  | 1482 |
| <b>44</b>  | L3S19044 | <b>105,0</b> | 6,6  | 693 | 13,2 | 1386 | L4S19044 | <b>131,0</b> | 6,6  | 865 | 11,0 | 1441 |
| <b>51</b>  | L3S19051 | <b>87,0</b>  | 7,7  | 666 | 15,3 | 1331 | L4S19051 | <b>111,0</b> | 7,7  | 849 | 12,8 | 1415 |
| <b>64</b>  | L3S19064 | <b>66,0</b>  | 9,6  | 634 | 19,2 | 1267 | L4S19064 | <b>88,0</b>  | 9,6  | 845 | 16,0 | 1408 |
| <b>76</b>  | L3S19076 | <b>55,0</b>  | 11,4 | 627 | 22,8 | 1254 | L4S19076 | <b>71,0</b>  | 11,4 | 809 | 19,0 | 1349 |
| <b>89</b>  | L3S19089 | <b>46,0</b>  | 13,4 | 614 | 26,7 | 1228 | L4S19089 | <b>60,0</b>  | 13,4 | 801 | 22,3 | 1335 |
| <b>102</b> | L3S19102 | <b>41,0</b>  | 15,3 | 627 | 30,6 | 1255 | L4S19102 | <b>53,0</b>  | 15,3 | 811 | 25,5 | 1352 |
| <b>115</b> | L3S19115 | <b>35,0</b>  | 17,3 | 604 | 34,5 | 1208 | L4S19115 | <b>46,0</b>  | 17,3 | 794 | 28,8 | 1323 |
| <b>127</b> | L3S19127 | <b>31,0</b>  | 19,1 | 591 | 38,1 | 1181 | L4S19127 | <b>41,0</b>  | 19,1 | 781 | 31,8 | 1302 |
| <b>139</b> | L3S19139 | <b>28,0</b>  | 20,9 | 584 | 41,7 | 1168 | L4S19139 | <b>38,0</b>  | 20,9 | 792 | 34,8 | 1321 |
| <b>152</b> | L3S19152 | <b>25,0</b>  | 22,8 | 570 | 45,6 | 1140 | L4S19152 | <b>34,0</b>  | 22,8 | 775 | 38,0 | 1292 |
| <b>305</b> | L3S19305 | <b>13,0</b>  | 45,8 | 595 | 91,5 | 1190 | L4S19305 | <b>17,0</b>  | 45,8 | 778 | 76,3 | 1296 |

## (D) Bucșă • Housing Ø 10 mm

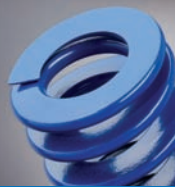
## (d) Dorn • Rod Ø 4,5 mm

Secțiunea sârmei de arc • Wire section **1,8 x 1,4 \***Secțiunea sârmei de arc • Wire section **20 x 1,5 \***

|            |          | <b>364,0</b> | 3,8  | 1365 | 7,5  | 2730 |          |              |      |      |      |      |
|------------|----------|--------------|------|------|------|------|----------|--------------|------|------|------|------|
| <b>25</b>  | L3S26025 | <b>364,0</b> | 3,8  | 1365 | 7,5  | 2730 |          |              |      |      |      |      |
| <b>32</b>  | L3S26032 | <b>300,0</b> | 4,8  | 1440 | 9,6  | 2880 | L4S26032 | <b>324,0</b> | 4,8  | 1555 | 8,0  | 2592 |
| <b>38</b>  | L3S26038 | <b>207,0</b> | 5,7  | 1180 | 11,4 | 2360 | L4S26038 | <b>296,0</b> | 5,7  | 1687 | 9,5  | 2812 |
| <b>44</b>  | L3S26044 | <b>182,0</b> | 6,6  | 1201 | 13,2 | 2402 | L4S26044 | <b>258,0</b> | 6,6  | 1703 | 11,0 | 2838 |
| <b>51</b>  | L3S26051 | <b>147,0</b> | 7,7  | 1125 | 15,3 | 2249 | L4S26051 | <b>203,0</b> | 7,7  | 1553 | 12,8 | 2588 |
| <b>64</b>  | L3S26064 | <b>119,0</b> | 9,6  | 1142 | 19,2 | 2285 | L4S26064 | <b>157,0</b> | 9,6  | 1507 | 16,0 | 2512 |
| <b>76</b>  | L3S26076 | <b>95,0</b>  | 11,4 | 1083 | 22,8 | 2166 | L4S26076 | <b>129,0</b> | 11,4 | 1471 | 19,0 | 2451 |
| <b>89</b>  | L3S26089 | <b>80,0</b>  | 13,4 | 1068 | 26,7 | 2136 | L4S26089 | <b>109,0</b> | 13,4 | 1455 | 22,3 | 2425 |
| <b>102</b> | L3S26102 | <b>70,0</b>  | 15,3 | 1071 | 30,6 | 2142 | L4S26102 | <b>97,0</b>  | 15,3 | 1484 | 25,5 | 2474 |
| <b>115</b> | L3S26115 | <b>62,0</b>  | 17,3 | 1070 | 34,5 | 2139 | L4S26115 | <b>85,0</b>  | 17,3 | 1466 | 28,8 | 2444 |
| <b>127</b> | L3S26127 | <b>55,0</b>  | 19,1 | 1048 | 38,1 | 2096 | L4S26127 | <b>76,0</b>  | 19,1 | 1448 | 31,8 | 2413 |
| <b>139</b> | L3S26139 | <b>50,0</b>  | 20,9 | 1043 | 41,7 | 2085 | L4S26139 | <b>68,0</b>  | 20,9 | 1418 | 34,8 | 2363 |
| <b>152</b> | L3S26152 | <b>45,0</b>  | 22,8 | 1026 | 45,6 | 2052 | L4S26152 | <b>63,0</b>  | 22,8 | 1436 | 38,0 | 2394 |
| <b>178</b> | L3S26178 | <b>39,0</b>  | 26,7 | 1041 | 53,4 | 2083 | L4S26178 | <b>53,0</b>  | 26,7 | 1415 | 44,5 | 2359 |
| <b>203</b> | L3S26203 | <b>34,0</b>  | 30,5 | 1035 | 60,9 | 2071 | L4S26203 | <b>46,0</b>  | 30,5 | 1401 | 50,8 | 2335 |
| <b>305</b> | L3S26305 | <b>21,0</b>  | 45,8 | 961  | 91,5 | 1922 | L4S26305 | <b>31,0</b>  | 45,8 | 1418 | 76,3 | 2364 |

\* - dimensiunile secțiunii arcului sunt aproximative

**XLL %** Cursă pe durată lungă  
Long Life deflection**S<sub>1</sub>** Cursă 1 mm  
Deflection 1 mm**F<sub>1</sub>** Sarcină / Forță 1 N  
Load 1 N**Max %** Cursă maximă  
Max working deflection**S<sub>2</sub>** Cursă 2 mm  
Deflection 2 mm**F<sub>2</sub>** Sarcină / Forță 2 N  
Load 2 N



# L1S



# L2S

**HENNLICH**

## Sarcină mică

## Sarcină medie

| Lo                                  | R.                       | XLL 25%                   |                       | Max 50%              |                       | R.                   | XLL 20%                  |                           | Max 37%               |                      |                       |                      |
|-------------------------------------|--------------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|
|                                     |                          | S.1                       | F.1                   | S.2                  | F.2                   |                      | S.1                      | F.1                       | S.2                   | F.2                  |                       |                      |
| Lungime liberă<br>Free length<br>mm | Nr. articol<br>Ctlg. No. | Constantă<br>Rate<br>N/mm | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N | Nr. articol<br>Ctlg. No. | Constantă<br>Rate<br>N/mm | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N | Cursă<br>Stroke<br>mm | Sarcină<br>Load<br>N |

### (D) Bucșă • Husing Ø 32 mm

### (d) Dorn • Rod Ø 16 mm

| Secțiunea sârmei de arc • Wire section 7,1 x 3,0 * |          |      |      |     |       |      | Secțiunea sârmei de arc • Wire section 7,1 x 4,0 * |       |      |      |       |      |
|--|----------|------|------|-----|-------|------|--|-------|------|------|-------|------|
| 38   | L1S32038 | 86,9 | 9,5  | 826 | 19,0  | 1651 | L2S32038   | 200,0 | 7,6  | 1520 | 14,1  | 2812 |
| 44   | L1S32044 | 74,3 | 11,0 | 817 | 22,0  | 1635 | L2S32044   | 177,0 | 8,8  | 1558 | 16,3  | 2882 |
| 51   | L1S32051 | 61,6 | 12,8 | 785 | 25,5  | 1571 | L2S32051   | 151,0 | 10,2 | 1540 | 18,9  | 2849 |
| 64   | L1S32064 | 50,4 | 16,0 | 806 | 32,0  | 1613 | L2S32064   | 109,0 | 12,8 | 1395 | 23,7  | 2581 |
| 76   | L1S32076 | 42,0 | 19,0 | 798 | 38,0  | 1596 | L2S32076   | 90,0  | 15,2 | 1368 | 28,1  | 2531 |
| 89   | L1S32089 | 35,0 | 22,3 | 779 | 44,5  | 1558 | L2S32089   | 77,0  | 17,8 | 1371 | 32,9  | 2536 |
| 102  | L1S32102 | 30,8 | 25,5 | 785 | 51,0  | 1571 | L2S32102   | 64,0  | 20,4 | 1306 | 37,7  | 2415 |
| 115  | L1S32115 | 28,0 | 28,8 | 805 | 57,5  | 1610 | L2S32115   | 56,0  | 23,0 | 1288 | 42,6  | 2383 |
| 127  | L1S32127 | 23,8 | 31,8 | 756 | 63,5  | 1511 | L2S32127   | 48,0  | 25,4 | 1219 | 47,0  | 2256 |
| 139  | L1S32139 | 22,4 | 34,8 | 778 | 69,5  | 1557 | L2S32139   | 46,0  | 27,8 | 1279 | 51,4  | 2366 |
| 152  | L1S32152 | 21,0 | 38,0 | 798 | 76,0  | 1596 | L2S32152   | 41,0  | 30,4 | 1246 | 56,2  | 2306 |
| 178  | L1S32178 | 18,2 | 44,5 | 810 | 89,0  | 1620 | L2S32178   | 35,0  | 35,6 | 1246 | 65,9  | 2305 |
| 203  | L1S32203 | 15,4 | 50,8 | 782 | 101,5 | 1563 | L2S32203   | 32,0  | 40,6 | 1299 | 75,1  | 2404 |
| 254  | L1S32254 | 12,6 | 63,5 | 800 | 127,0 | 1600 | L2S32254   | 22,0  | 50,8 | 1118 | 94,0  | 2068 |
| 305  | L1S32305 | 9,8  | 76,3 | 747 | 152,5 | 1495 | L2S32305   | 20,0  | 61,0 | 1220 | 112,9 | 2257 |

### (D) Bucșă • Husing Ø 38 mm

### (d) Dorn • Rod Ø 19 mm

| Secțiunea sârmei de arc • Wire section 8,3 x 3,4 * |          |      |      |      |       |      | Secțiunea sârmei de arc • Wire section 7,8 x 4,7 * |       |      |      |       |      |
|--|----------|------|------|------|-------|------|--|-------|------|------|-------|------|
| 51   | L1S38051 | 78,5 | 12,8 | 1001 | 25,5  | 2002 | L2S38051   | 189,0 | 10,2 | 1928 | 18,9  | 3566 |
| 64   | L1S38064 | 64,4 | 16,0 | 1030 | 32,0  | 2061 | L2S38064   | 150,0 | 12,8 | 1920 | 23,7  | 3552 |
| 76   | L1S38076 | 58,8 | 19,0 | 1117 | 38,0  | 2234 | L2S38076   | 109,0 | 15,2 | 1657 | 28,1  | 3065 |
| 89   | L1S38089 | 46,2 | 22,3 | 1028 | 44,5  | 2056 | L2S38089   | 93,0  | 17,8 | 1655 | 32,9  | 3062 |
| 102  | L1S38102 | 37,8 | 25,5 | 964  | 51,0  | 1928 | L2S38102   | 84,0  | 20,4 | 1714 | 37,7  | 3170 |
| 115  | L1S38115 | 36,4 | 28,8 | 1047 | 57,5  | 2093 | L2S38115   | 76,0  | 23,0 | 1748 | 42,6  | 3234 |
| 127  | L1S38127 | 35,0 | 31,8 | 1111 | 63,5  | 2223 | L2S38127   | 64,0  | 25,4 | 1626 | 47,0  | 3007 |
| 139  | L1S38139 | 29,4 | 34,8 | 1022 | 69,5  | 2043 | L2S38139   | 60,0  | 27,8 | 1668 | 51,4  | 3086 |
| 152  | L1S38152 | 25,2 | 38,0 | 958  | 76,0  | 1915 | L2S38152   | 53,0  | 30,4 | 1611 | 56,2  | 2981 |
| 178  | L1S38178 | 23,8 | 44,5 | 1059 | 89,0  | 2118 | L2S38178   | 46,0  | 35,6 | 1638 | 65,9  | 3030 |
| 203  | L1S38203 | 22,4 | 50,8 | 1137 | 101,5 | 2274 | L2S38203   | 36,0  | 40,6 | 1462 | 75,1  | 2704 |
| 254  | L1S38254 | 15,4 | 63,5 | 978  | 127,0 | 1956 | L2S38254   | 31,0  | 50,8 | 1575 | 94,0  | 2913 |
| 305  | L1S38305 | 14,0 | 76,3 | 1068 | 152,5 | 2135 | L2S38305   | 25,0  | 61,0 | 1525 | 112,9 | 2821 |

### (D) Bucșă • Husing Ø 51 mm

### (d) Dorn • Rod Ø 25 mm

| Secțiunea sârmei de arc • Wire section 11,3 x 3,5 * |          |       |      |      |       |      | Secțiunea sârmei de arc • Wire section 10,9 x 5,6 * |       |      |      |       |      |
|---|----------|-------|------|------|-------|------|---|-------|------|------|-------|------|
| 64  | L1S51064 | 156,9 | 16,0 | 2510 | 32,0  | 5021 | L2S51064  | 205,0 | 12,8 | 2624 | 23,7  | 4854 |
| 76  | L1S51076 | 134,5 | 19,0 | 2556 | 38,0  | 5111 | L2S51076  | 168,0 | 15,2 | 2554 | 28,1  | 4724 |
| 89  | L1S51089 | 113,5 | 22,3 | 2525 | 44,5  | 5051 | L2S51089  | 140,0 | 17,8 | 2492 | 32,9  | 4610 |
| 102   | L1S51102 | 96,7  | 25,5 | 2466 | 51,0  | 4932 | L2S51102  | 116,0 | 20,4 | 2366 | 37,7  | 4378 |
| 115   | L1S51115 | 82,7  | 28,8 | 2378 | 57,5  | 4755 | L2S51115  | 105,0 | 23,0 | 2415 | 42,6  | 4468 |
| 127   | L1S51127 | 72,9  | 31,8 | 2315 | 63,5  | 4629 | L2S51127  | 98,0  | 25,4 | 2489 | 47,0  | 4605 |
| 139   | L1S51139 | 68,6  | 34,8 | 2384 | 69,5  | 4768 | L2S51139  | 88,0  | 27,8 | 2446 | 51,4  | 4526 |
| 152   | L1S51152 | 61,6  | 38,0 | 2341 | 76,0  | 4682 | L2S51152  | 83,0  | 30,4 | 2523 | 56,2  | 4668 |
| 178   | L1S51178 | 54,6  | 44,5 | 2430 | 89,0  | 4859 | L2S51178  | 70,0  | 35,6 | 2492 | 65,9  | 4610 |
| 203   | L1S51203 | 44,8  | 50,8 | 2274 | 101,5 | 4547 | L2S51203  | 62,0  | 40,6 | 2517 | 75,1  | 4657 |
| 254   | L1S51254 | 36,4  | 63,5 | 2311 | 127,0 | 4623 | L2S51254  | 42,0  | 50,8 | 2134 | 94,0  | 3947 |
| 305   | L1S51305 | 29,4  | 76,3 | 2242 | 152,5 | 4484 | L2S51305  | 39,0  | 61,0 | 2379 | 112,9 | 4401 |



# L3S



# L4S

**HENNLICH**

### Sarcină mare

### Sarcină foarte mare

**Lo**Lungime liberă  
Free length  
mm

| Lo | Nr. articol<br>Ctlg. No. | R.<br>Constantă<br>Rate<br>N/mm | XLL 15% |    | Max 30% |     | Nr. articol<br>Ctlg. No. | R.<br>Constantă<br>Rate<br>N/mm | XLL 15% |     | Max 25% |     |
|----|--------------------------|---------------------------------|---------|----|---------|-----|--------------------------|---------------------------------|---------|-----|---------|-----|
|    |                          |                                 | S.1     | F. | S.2     | F.2 |                          |                                 | S.1     | F.1 | S.2     | F.2 |

### (D) Bucșă • Housing Ø 32 mm

### (d) Dorn • Rod Ø 16 mm

| Secțiunea sârmei de arc • Wire section 7,4 x 5,0 * |          |       |      |      |      |      | Secțiunea sârmei de arc • Wire section 7,4 x 5,7 * |       |      |      |      |      |  |
|--|----------|-------|------|------|------|------|--|-------|------|------|------|------|--|
| 38   | L3S32038 | 371,0 | 5,7  | 2115 | 11,4 | 4229 | L4S32038   | 504,0 | 5,7  | 2873 | 9,5  | 4788 |  |
| 44   | L3S32044 | 318,0 | 6,6  | 2099 | 13,2 | 4198 | L4S32044   | 422,0 | 6,6  | 2785 | 11,0 | 4642 |  |
| 51   | L3S32051 | 262,0 | 7,7  | 2004 | 15,3 | 4009 | L4S32051   | 336,0 | 7,7  | 2570 | 12,8 | 4284 |  |
| 64   | L3S32064 | 206,0 | 9,6  | 1978 | 19,2 | 3955 | L4S32064   | 252,0 | 9,6  | 2419 | 16,0 | 4032 |  |
| 76   | L3S32076 | 167,0 | 11,4 | 1904 | 22,8 | 3808 | L4S32076   | 207,0 | 11,4 | 2360 | 19,0 | 3933 |  |
| 89   | L3S32089 | 132,0 | 13,4 | 1762 | 26,7 | 3524 | L4S32089   | 177,0 | 13,4 | 2363 | 22,3 | 3938 |  |
| 102  | L3S32102 | 116,0 | 15,3 | 1775 | 30,6 | 3550 | L4S32102   | 147,0 | 15,3 | 2249 | 25,5 | 3749 |  |
| 115  | L3S32115 | 102,0 | 17,3 | 1760 | 34,5 | 3519 | L4S32115   | 137,0 | 17,3 | 2363 | 28,8 | 3939 |  |
| 127  | L3S32127 | 87,0  | 19,1 | 1657 | 38,1 | 3315 | L4S32127   | 119,0 | 19,1 | 2267 | 31,8 | 3778 |  |
| 139  | L3S32139 | 83,0  | 20,9 | 1731 | 41,7 | 3461 | L4S32139   | 107,0 | 20,9 | 2231 | 34,8 | 3718 |  |
| 152  | L3S32152 | 74,0  | 22,8 | 1687 | 45,6 | 3374 | L4S32152   | 98,0  | 22,8 | 2234 | 38,0 | 3724 |  |
| 178  | L3S32178 | 64,0  | 26,7 | 1709 | 53,4 | 3418 | L4S32178   | 84,0  | 26,7 | 2243 | 44,5 | 3738 |  |
| 203  | L3S32203 | 57,0  | 30,5 | 1736 | 60,9 | 3471 | L4S32203   | 73,0  | 30,5 | 2223 | 50,8 | 3705 |  |
| 254  | L3S32254 | 45,0  | 38,1 | 1715 | 76,2 | 3429 | L4S32254   | 59,0  | 38,1 | 2248 | 63,5 | 3747 |  |
| 305  | L3S32305 | 36,0  | 45,8 | 1647 | 91,5 | 3294 | L4S32305   | 46,0  | 45,8 | 2105 | 76,3 | 3508 |  |

### (D) Bucșă • Housing Ø 38 mm

### (d) Dorn • Rod Ø 19 mm

| Secțiunea sârmei de arc • Wire section 8,7 x 5,7 * |          |       |      |      |      |      | Secțiunea sârmei de arc • Wire section 8,7 x 7,6 * |       |      |      |      |      |  |
|--|----------|-------|------|------|------|------|--|-------|------|------|------|------|--|
| 51   | L3S38051 | 333,0 | 7,7  | 2547 | 15,3 | 5095 | L4S38051   | 658,0 | 7,7  | 5034 | 12,8 | 8390 |  |
| 64   | L3S38064 | 261,0 | 9,6  | 2506 | 19,2 | 5011 | L4S38064   | 516,0 | 9,6  | 4954 | 16,0 | 8256 |  |
| 76   | L3S38076 | 214,0 | 11,4 | 2440 | 22,8 | 4879 | L4S38076   | 405,0 | 11,4 | 4617 | 19,0 | 7695 |  |
| 89   | L3S38089 | 186,0 | 13,4 | 2483 | 26,7 | 4966 | L4S38089   | 343,0 | 13,4 | 4579 | 22,3 | 7632 |  |
| 102  | L3S38102 | 160,0 | 15,3 | 2448 | 30,6 | 4896 | L4S38102   | 300,0 | 15,3 | 4590 | 25,5 | 7650 |  |
| 115  | L3S38115 | 137,0 | 17,3 | 2363 | 34,5 | 4727 | L4S38115   | 259,0 | 17,3 | 4468 | 28,8 | 7446 |  |
| 127  | L3S38127 | 125,0 | 19,1 | 2381 | 38,1 | 4763 | L4S38127   | 238,0 | 19,1 | 4534 | 31,8 | 7557 |  |
| 139  | L3S38139 | 112,0 | 20,9 | 2335 | 41,7 | 4670 | L4S38139   | 214,0 | 20,9 | 4462 | 34,8 | 7437 |  |
| 152  | L3S38152 | 102,0 | 22,8 | 2326 | 45,6 | 4651 | L4S38152   | 193,0 | 22,8 | 4400 | 38,0 | 7334 |  |
| 178  | L3S38178 | 87,0  | 26,7 | 2323 | 53,4 | 4646 | L4S38178   | 165,0 | 26,7 | 4406 | 44,5 | 7343 |  |
| 203  | L3S38203 | 76,0  | 30,5 | 2314 | 60,9 | 4628 | L4S38203   | 142,0 | 30,5 | 4324 | 50,8 | 7207 |  |
| 254  | L3S38254 | 60,0  | 38,1 | 2286 | 76,2 | 4572 | L4S38254   | 118,0 | 38,1 | 4496 | 63,5 | 7493 |  |
| 305  | L3S38305 | 50,0  | 45,8 | 2288 | 91,5 | 4575 | L4S38305   | 95,0  | 45,8 | 4346 | 76,3 | 7244 |  |

### (D) Bucșă • Housing Ø 51 mm

### (d) Dorn • Rod Ø 25 mm

| Secțiunea sârmei de arc • Wire section 11,0 x 7,2 * |          |       |      |      |      |      | Secțiunea sârmei de arc • Wire section 11,3 x 9,3 * |       |      |      |      |       |  |
|---|----------|-------|------|------|------|------|---|-------|------|------|------|-------|--|
| 64  | L3S51064 | 385,0 | 9,6  | 3696 | 19,2 | 7392 | L4S51064  | 668,0 | 9,6  | 6413 | 16,0 | 10688 |  |
| 76  | L3S51076 | 325,0 | 11,4 | 3705 | 22,8 | 7410 | L4S51076  | 546,0 | 11,4 | 6224 | 19,0 | 10374 |  |
| 89  | L3S51089 | 280,0 | 13,4 | 3738 | 26,7 | 7476 | L4S51089  | 445,0 | 13,4 | 5941 | 22,3 | 9901  |  |
| 102   | L3S51102 | 234,0 | 15,3 | 3580 | 30,6 | 7160 | L4S51102  | 385,0 | 15,3 | 5891 | 25,5 | 9818  |  |
| 115   | L3S51115 | 206,0 | 17,3 | 3554 | 34,5 | 7107 | L4S51115  | 331,0 | 17,3 | 5710 | 28,8 | 9516  |  |
| 127   | L3S51127 | 182,0 | 19,1 | 3467 | 38,1 | 6934 | L4S51127  | 303,0 | 19,1 | 5772 | 31,8 | 9620  |  |
| 139   | L3S51139 | 163,0 | 20,9 | 3399 | 41,7 | 6797 | L4S51139  | 272,0 | 20,9 | 5671 | 34,8 | 9452  |  |
| 152   | L3S51152 | 146,0 | 22,8 | 3329 | 45,6 | 6658 | L4S51152  | 248,0 | 22,8 | 5654 | 38,0 | 9424  |  |
| 178   | L3S51178 | 129,0 | 26,7 | 3444 | 53,4 | 6889 | L4S51178  | 210,0 | 26,7 | 5607 | 44,5 | 9345  |  |
| 203   | L3S51203 | 112,0 | 30,5 | 3410 | 60,9 | 6821 | L4S51203  | 175,0 | 30,5 | 5329 | 50,8 | 8881  |  |
| 254   | L3S51254 | 85,0  | 38,1 | 3239 | 76,2 | 6477 | L4S51254  | 147,0 | 38,1 | 5601 | 63,5 | 9335  |  |
| 305   | L3S51305 | 70,0  | 45,8 | 3203 | 91,5 | 6405 | L4S51305  | 125,0 | 45,8 | 5719 | 76,3 | 9531  |  |