

*Molle per stampi ISO 10243*

# ISO 10243 die springs



# CHOOSING A SPRING

Our points of strength / I nostri punti di forza

Determining which spring is best suited to a given situation is an extremely simple matter, thanks to the tables included in the catalogue, which provide the load and stroke in three different examples of deflection. The following chart shows the deflection values for each line of products.

Con l'aiuto delle tabelle del presente catalogo, che riportano i valori di carico e corsa in tre diverse ipotesi di deflessione di lavoro, selezionare la molla più indicata è un'operazione estremamente semplice. Il seguente prospetto raccoglie le deflessioni calcolate per ciascuna delle serie presentate.

| STANDARD      | SERIE<br>SERIE | LOAD<br>CARICO               | LONG LIFE TOTAL DEFLECTION<br>DEFLESSIONE TOTALE PER<br>LUNGA DURATA | CYCLES<br>CICLI | MAXIMUM WORKING TOTAL<br>DEFLECTION / DEFLESSIONE<br>TOTALE MASSIMA CONSENTITA | CYCLES<br>CICLI | DEFLECTION TO SOLID<br>DEFLESSIONE A BLOCCO |
|---------------|----------------|------------------------------|--|-----------------|--|-----------------|---|
| SUPER B FEDER | <b>BS</b>      | EXTRA LIGHT<br>EXTRA LEGGERO | 35%  | +3.000.000      | 50%  | 200.000         | APPROX. 60%                                 |
| ISO 10243     | <b>BG</b>      | LIGHT<br>LEGGERO             | 30%  | +3.000.000      | 40%  | 200.000         | APPROX. 50%                                 |
| ISO 10243     | <b>BA</b>      | MEDIUM<br>MEDIO              | 25%  | +3.000.000      | 37.5%  | 200.000         | APPROX. 45%                                 |
| ISO 10243     | <b>BR</b>      | HEAVY<br>FORTE               | 20%  | +3.000.000      | 30%  | 200.000         | APPROX. 40%                                 |
| ISO 10243     | <b>BY</b>      | EXTRA HEAVY<br>EXTRA FORTE   | 17%  | +5.000.000      | 25%  | 300.000         | APPROX. 35%                                 |
| SUPER B FEDER | <b>BO</b>      | SUPER HEAVY<br>SUPER FORTE   | 10%  | +5.000.000      | 15%  | 500.000         | APPROX. 20%                                 |

## PROPERTIES

Thanks to the types of steel utilized and the thermal treatments the springs undergo, all the springs in the catalogue have a decidedly large range of operation, being able to operate at temperatures between -30 °C (-22 °F) and +250 °C (+482 °F)

## PRESTAZIONI

Gli acciai impiegati e i trattamenti termici cui sono sottoposte tutte le molle a catalogo consentono un'elasticità d'impiego decisamente ampia, e permettono un utilizzo da una temperatura di -30 °C (-22 °F) a una di +250 °C (+482 °F).

## GUIDELINES, SOME THINGS TO KEEP IN MIND

- 1 \_ As far as the situation allows, give preference to the longest springs and to those meant for the lightest loads;
- 2 \_ total deflection (pre-load + working stroke) larger than the maximum indicated in the catalogue must be avoided. We recommend that you also check it when you sharpen the tools into the mold;
- 3 \_ always submit the springs to precompression equal to at least 5% of their effective length (at least 2 mm);
- 4 \_ arrange the springs on a surface which will keep them aligned during operation;
- 5 \_ place the springs in a deep housing, or else guide them using an internal pin, especially when  $Lo/D > 3$ .

## ALCUNE RACCOMANDAZIONI DA NON DIMENTICARE

- 1 \_ per quanto consentito dalle esigenze di lavoro, scegliere le molle più lunghe e di carico inferiore;
- 2 \_ vanno assolutamente evitate deflessioni totali (pre-carico + corsa di lavoro) superiori alla deflessione massima indicata a catalogo. Si consiglia di verificarlo anche quando si affilano gli utensili nello stampo;
- 3 \_ sottoporre sempre le molle a precompressione, pari ad almeno il 5% della lunghezza libera (minimo 2 mm);
- 4 \_ disporre le molle su di un piano d'appoggio che consenta loro di lavorare in asse;
- 5 \_ inserire le molle in alloggiamento profondo, oppure guidarle con una spina interna, in particolare quando  $Lo/D > 3$ .



## TOLERANCES

**SPRING RATE:**  $\pm 10\%$ ;

**FREE LENGTH:**  $\pm 1\%$ , with a minimum of  $\pm 0.75$  mm;

**EXTERNAL DIAMETER:** always smaller than the diameter of the housing indicated in the catalogue;

**INTERNAL DIAMETER:** always larger than the diameter of the internal pin indicated in the catalogue.

## HOW TO ORDER SPRINGS

In order to protect and preserve them during their time in storage, the springs are kept in boxes. The number of springs in each package is indicated in the last column of each product's information table. We suggest ordering amounts equivalent to a whole number of packages. Ordering is extremely simple: indicate the product code and the number of packages or of single springs desired.

### **For example: BS 32038 nr. 20**

Corresponds to an order of 20 springs of the extra light line (black) having an external diameter of 32 mm and an effective length of 38 mm.

## TOLLERANZE

**RIGIDITÀ:**  $\pm 10\%$ ;

**LUNGHEZZA LIBERA:**  $\pm 1\%$ , con un minimo di  $\pm 0,75$  mm;

**DIAMETRO ESTERNO:** sempre inferiore al diametro dell'alloggiamento indicato a catalogo;

**DIAMETRO INTERNO:** sempre maggiore del diametro della spina di guida indicato a catalogo.

## COME ORDINARE

Per proteggerle e conservarle durante la giacenza in magazzino, le molle a catalogo sono racchiuse in scatole. Il numero di molle contenuto in una confezione è indicato nell'ultima colonna di tabella per ogni articolo. Si consiglia di ordinare quantità corrispondenti a una confezione o a multipli di essa. Ordinarne un quantitativo è estremamente semplice: basta indicare il codice articolo e il numero di confezioni o di molle sfuse che si desidera acquistare.

### **Per Esempio: BS 32038 nr. 20**

Corrisponde ad un ordinativo per 20 molle della serie extra leggera (colore nero) di diametro esterno 32 mm e lunghezza libera 38 mm.



# Die spring ISO 10243

Product standards / Standard di prodotto

## PARAMETERS

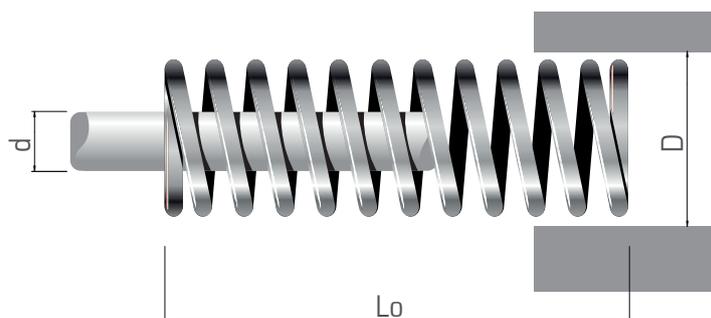
The ISO 10243 standard defines parameters for rectangular-section compression springs as follows:

- D** \_ external diameter, equal to the diameter of the housing;
- d** \_ internal diameter, equal to the diameter of the guide pin;
- Lo** \_ effective length, the length of the spring at rest;
- R** \_ load, in Newtons, necessary to deflect the spring by 1 mm (1 Newton = 0.102 kg = 0.499 lb).

## QUALI PARAMETRI

Lo standard ISO 10243 definisce i parametri per le molle a compressione in filo a sezione rettangolare nel modo seguente:

- D** \_ diametro esterno, corrispondente al diametro dell'alloggiamento;
- d** \_ diametro interno, corrispondente al diametro della spina di guida;
- Lo** \_ lunghezza libera, corrispondente alla lunghezza della molla a riposo;
- R** \_ carico, espresso in Newton, necessario per deflettere la molla di 1 mm (1 Newton = 0,102 kg).



The standard also defines:

- \_ maximum working deflection amounts for each spring;
- \_ tolerance of effective length;
- \_ colour coding of load.

Lo standard definisce anche:

- \_ valori di deflessione massima di lavoro consentita per ciascuna molla;
- \_ tolleranza della lunghezza libera;
- \_ colori identificativi del carico.

## SUPER B FEDER, SIX LINES UNDER ONE BRAND NAME.

The "Super B Feder" catalogue presents six spring design lines. Four lines conforming to the ISO 10243 standard:

- BG** \_ green, light load;
- BA** \_ blue, medium load;
- BR** \_ red, heavy load;
- BY** \_ yellow, extra-heavy load.

Two lines of springs having ISO standard diameters and lengths, but with some distinctive characteristics:

- BS** \_ black, extra-light load, with working deflections of up to 50% of effective length;
- BO** \_ orange, super-heavy load, for particularly large loads.

## SUPER B FEDER, UN MARCHIO PER SEI SERIE.

Il presente catalogo "Super b feder" propone sei serie di molle. Quattro serie secondo lo standard ISO 10243:

- BG** \_ colore verde, carico leggero;
- BA** \_ colore blu, carico medio;
- BR** \_ colore rosso, carico forte;
- BY** \_ colore giallo, carico extraforte.

Due serie di molle con diametri e lunghezze come da standard ISO, ma aventi caratteristiche differenti:

- BS** \_ colore nero, carico extra leggero, con corse di lavoro sino al 50% della lunghezza libera;
- BO** \_ colore arancione, carico super forte, caratterizzate da carichi particolarmente elevati.

# BS EXTRA LIGHT LOAD / CARICO EXTRA LEGGERO

Super B feder Colour / Colore  
black / nero



# BG LIGHT LOAD / CARICO LEGGERO

Standard / Standard  
ISO 10243 Colour / Colore  
green / verde



# BA MEDIUM LOAD / CARICO MEDIO

Standard / Standard  
ISO 10243 Colour / Colore  
blue / blu



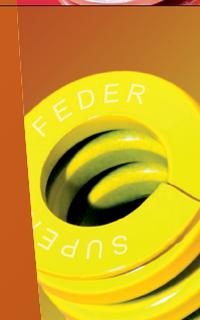
# BR HEAVY LOAD / CARICO FORTE

Standard / Standard  
ISO 10243 Colour / Colore  
red / rosso



# BY EXTRA HEAVY LOAD / CARICO EXTRA FORTE

Standard / Standard  
ISO 10243 Colour / Colore  
yellow / giallo



# BO SUPER HEAVY LOAD / CARICO SUPER FORTE

Super B feder Colour / Colore  
orange / arancio



# BS

**D****d****L<sub>0</sub>****R****35%**  
LONG LIFE DEFLECTION  
DEFLESSIONE PER  
LUNGA DURATA**40%**  
AVERAGE WORKING DEF.  
DEFLESSIONE MEDIA  
DI LAVORO**50%**  
MAX WORKING DEF.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|
| BS 10025            | <b>10</b>               | <b>5</b>             | 25                                 | 8.5                      | 8.8                             | 74                  | 10.0                            | 85.0                | 12.5                            | 106                 | 100                  |
| BS 10032            |                         |                      | 32                                 | 6.5                      | 11.2                            | 74                  | 12.8                            | 83.2                | 16.0                            | 104                 | 100                  |
| BS 10038            |                         |                      | 38                                 | 5.5                      | 13.3                            | 74                  | 15.2                            | 83.6                | 19.0                            | 105                 | 100                  |
| BS 10045            |                         |                      | 44                                 | 5.0                      | 15.4                            | 77                  | 17.6                            | 88.0                | 22.0                            | 110                 | 100                  |
| BS 10050            |                         |                      | 51                                 | 4.5                      | 17.9                            | 80                  | 20.4                            | 91.8                | 25.5                            | 115                 | 100                  |
| BS 10065            |                         |                      | 64                                 | 3.3                      | 22.4                            | 74                  | 25.6                            | 84.5                | 32.0                            | 106                 | 50                   |
| BS 10075            |                         |                      | 76                                 | 3.2                      | 26.6                            | 85                  | 30.4                            | 97.3                | 38.0                            | 122                 | 50                   |
| BS 10303            |                         |                      | 305                                | 0.6                      | 106.8                           | 64                  | 122.0                           | 73.2                | 152.5                           | 92                  | 20                   |
| BS 13025            |                         |                      | <b>12.5</b>                        | <b>6.3</b>               | 25                              | 15.5                | 8.8                             | 136                 | 10.0                            | 155                 | 12.5                 |
| BS 13032            | 32                      | 12.2                 |                                    |                          | 11.2                            | 137                 | 12.8                            | 156                 | 16.0                            | 195                 | 100                  |
| BS 13038            | 38                      | 10.3                 |                                    |                          | 13.3                            | 137                 | 15.2                            | 157                 | 19.0                            | 196                 | 100                  |
| BS 13045            | 44                      | 8.7                  |                                    |                          | 15.4                            | 134                 | 17.6                            | 153                 | 22.0                            | 191                 | 100                  |
| BS 13050            | 51                      | 7.5                  |                                    |                          | 17.9                            | 134                 | 20.4                            | 153                 | 25.5                            | 191                 | 100                  |
| BS 13065            | 64                      | 5.8                  |                                    |                          | 22.4                            | 130                 | 25.6                            | 149                 | 32.0                            | 186                 | 50                   |
| BS 13075            | 76                      | 4.7                  |                                    |                          | 26.6                            | 125                 | 30.4                            | 143                 | 38.0                            | 179                 | 50                   |
| BS 13090            | 89                      | 4.1                  |                                    |                          | 31.2                            | 128                 | 35.6                            | 146                 | 44.5                            | 182                 | 50                   |
| BS 13101            | 102                     | 3.6                  |                                    |                          | 35.7                            | 129                 | 40.8                            | 147                 | 51.0                            | 184                 | 50                   |
| BS 13303            | 305                     | 1.2                  | 106.8                              | 128                      | 122.0                           | 146                 | 152.5                           | 183                 | 20                              |                     |                      |
| BS 16025            | <b>16</b>               | <b>8</b>             | 25                                 | 20.2                     | 8.8                             | 177                 | 10.0                            | 202                 | 12.5                            | 253                 | 100                  |
| BS 16032            |                         |                      | 32                                 | 14.4                     | 11.2                            | 161                 | 12.8                            | 184                 | 16.0                            | 230                 | 100                  |
| BS 16038            |                         |                      | 38                                 | 12.3                     | 13.3                            | 164                 | 15.2                            | 187                 | 19.0                            | 234                 | 100                  |
| BS 16045            |                         |                      | 44                                 | 10.6                     | 15.4                            | 163                 | 17.6                            | 187                 | 22.0                            | 233                 | 100                  |
| BS 16050            |                         |                      | 51                                 | 8.9                      | 17.9                            | 159                 | 20.4                            | 182                 | 25.5                            | 227                 | 100                  |
| BS 16065            |                         |                      | 64                                 | 7.0                      | 22.4                            | 157                 | 25.6                            | 179                 | 32.0                            | 224                 | 50                   |
| BS 16075            |                         |                      | 76                                 | 5.8                      | 26.6                            | 154                 | 30.4                            | 176                 | 38.0                            | 220                 | 50                   |
| BS 16090            |                         |                      | 89                                 | 4.8                      | 31.2                            | 150                 | 35.6                            | 171                 | 44.5                            | 214                 | 50                   |
| BS 16101            |                         |                      | 102                                | 4.0                      | 35.7                            | 143                 | 40.8                            | 163                 | 51.0                            | 204                 | 50                   |
| BS 16115            | 115                     | 3.9                  | 40.3                               | 157                      | 46.0                            | 179                 | 57.5                            | 224                 | 50                              |                     |                      |
| BS 16303            | 305                     | 1.5                  | 106.8                              | 160                      | 122.0                           | 183                 | 152.5                           | 229                 | 20                              |                     |                      |
| BS 19025            | <b>20</b>               | <b>10</b>            | 25                                 | 32.1                     | 8.8                             | 281                 | 10.0                            | 321                 | 12.5                            | 401                 | 100                  |
| BS 19032            |                         |                      | 32                                 | 24.7                     | 11.2                            | 277                 | 12.8                            | 316                 | 16.0                            | 395                 | 100                  |
| BS 19038            |                         |                      | 38                                 | 20.7                     | 13.3                            | 275                 | 15.2                            | 315                 | 19.0                            | 393                 | 100                  |
| BS 19045            |                         |                      | 44                                 | 17.8                     | 15.4                            | 275                 | 17.6                            | 313                 | 22.0                            | 392                 | 100                  |
| BS 19050            |                         |                      | 51                                 | 15.3                     | 17.9                            | 273                 | 20.4                            | 312                 | 25.5                            | 390                 | 100                  |
| BS 19065            |                         |                      | 64                                 | 12.1                     | 22.4                            | 270                 | 25.6                            | 310                 | 32.0                            | 386                 | 50                   |
| BS 19075            |                         |                      | 76                                 | 10.2                     | 26.6                            | 271                 | 30.4                            | 310                 | 38.0                            | 386                 | 50                   |
| BS 19090            |                         |                      | 89                                 | 8.6                      | 31.2                            | 269                 | 35.6                            | 306                 | 44.5                            | 384                 | 50                   |
| BS 19101            |                         |                      | 102                                | 7.5                      | 35.7                            | 269                 | 40.8                            | 306                 | 51.0                            | 384                 | 50                   |
| BS 19115            | 115                     | 6.7                  | 40.3                               | 269                      | 46.0                            | 308                 | 57.5                            | 384                 | 20                              |                     |                      |
| BS 19126            | 127                     | 6.1                  | 44.5                               | 270                      | 50.8                            | 310                 | 63.5                            | 386                 | 20                              |                     |                      |
| BS 19140            | 139                     | 5.5                  | 48.7                               | 269                      | 55.6                            | 306                 | 69.5                            | 385                 | 20                              |                     |                      |
| BS 19151            | 152                     | 5.1                  | 53.2                               | 269                      | 60.8                            | 310                 | 76.0                            | 384                 | 20                              |                     |                      |
| BS 19303            | 305                     | 2.5                  | 106.8                              | 266                      | 122.0                           | 305                 | 152.5                           | 384                 | 10                              |                     |                      |
| BS 26025            | <b>25</b>               | <b>12.5</b>          | 25                                 | 52.7                     | 8.8                             | 461                 | 10.0                            | 527                 | 12.5                            | 658                 | 100                  |
| BS 26032            |                         |                      | 32                                 | 40.0                     | 11.2                            | 448                 | 12.8                            | 512                 | 16.0                            | 640                 | 50                   |
| BS 26038            |                         |                      | 38                                 | 33.3                     | 13.3                            | 444                 | 15.2                            | 506                 | 19.0                            | 634                 | 50                   |
| BS 26045            |                         |                      | 44                                 | 28.6                     | 15.4                            | 440                 | 17.6                            | 503                 | 22.0                            | 629                 | 50                   |
| BS 26050            |                         |                      | 51                                 | 24.7                     | 17.9                            | 441                 | 20.4                            | 504                 | 25.5                            | 630                 | 50                   |
| BS 26065            |                         |                      | 64                                 | 19.4                     | 22.4                            | 435                 | 25.6                            | 497                 | 32.0                            | 622                 | 50                   |
| BS 26075            |                         |                      | 76                                 | 16.3                     | 26.6                            | 433                 | 30.4                            | 496                 | 38.0                            | 618                 | 20                   |
| BS 26090            |                         |                      | 89                                 | 13.9                     | 31.2                            | 433                 | 35.6                            | 495                 | 44.5                            | 618                 | 20                   |
| BS 26101            |                         |                      | 102                                | 12.1                     | 35.7                            | 433                 | 40.8                            | 494                 | 51.0                            | 618                 | 20                   |
| BS 26115            | 115                     | 10.8                 | 40.3                               | 433                      | 46.0                            | 497                 | 57.5                            | 619                 | 20                              |                     |                      |
| BS 26126            | 127                     | 9.8                  | 44.5                               | 434                      | 50.8                            | 498                 | 63.5                            | 620                 | 10                              |                     |                      |
| BS 26140            | 139                     | 8.9                  | 48.7                               | 433                      | 55.6                            | 495                 | 69.5                            | 618                 | 10                              |                     |                      |
| BS 26151            | 152                     | 8.1                  | 53.2                               | 431                      | 60.8                            | 493                 | 76.0                            | 616                 | 10                              |                     |                      |
| BS 26176            | 178                     | 6.9                  | 62.3                               | 431                      | 71.2                            | 491                 | 89.0                            | 616                 | 10                              |                     |                      |
| BS 26202            | 203                     | 6.1                  | 71.1                               | 431                      | 81.2                            | 495                 | 101.5                           | 615                 | 10                              |                     |                      |
| BS 26303            | 305                     | 4.0                  | 106.8                              | 429                      | 122.0                           | 488                 | 152.5                           | 613                 | 5                               |                     |                      |

**EXTRA LIGHT LOAD / CARICO EXTRA LEGGERO**



**35%**  
LONG LIFE DEFL. DEFLESSION PER LUNGA DURATA



**40%**  
AVERAGE WORKING DEFL. DEFLESSIONE MEDIA DI LAVORO



**50%**  
MAX WORKING DEFL. DEFLESSIONE MAX DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm                     | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm           | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |      |    |
|---------------------|---|----------------------|--|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|------|----|
| BS 32038            | 32  | 16                   | 38   | 43.8                     | 13.3                            | 582                 | 15.2                            | 666                 | 19.0                            | 831                 | 20                   |      |    |
| BS 32045            |   |                      | 44   | 37.5                     | 15.4                            | 578                 | 17.6                            | 660                 | 22.0                            | 825                 | 20                   |      |    |
| BS 32050            |   |                      | 51   | 32.3                     | 17.9                            | 576                 | 20.4                            | 659                 | 25.5                            | 823                 | 20                   |      |    |
| BS 32065            |   |                      | 64   | 25.4                     | 22.4                            | 569                 | 25.6                            | 650                 | 32.0                            | 813                 | 20                   |      |    |
| BS 32075            |   |                      | 76   | 21.3                     | 26.6                            | 566                 | 30.4                            | 648                 | 38.0                            | 809                 | 20                   |      |    |
| BS 32090            |   |                      | 89   | 18.1                     | 31.2                            | 563                 | 35.6                            | 644                 | 44.5                            | 804                 | 20                   |      |    |
| BS 32101            |   |                      | 102  | 15.8                     | 35.7                            | 562                 | 40.8                            | 645                 | 51.0                            | 803                 | 20                   |      |    |
| BS 32115            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>6.40 x 2.65  | 115                      | 13.9                            | 40.3                | 560                             | 46.0                | 639                             | 57.5                | 800                  | 10   |    |
| BS 32126            |   |                      |  | 127                      | 12.6                            | 44.5                | 559                             | 50.8                | 640                             | 63.5                | 799                  | 10   |    |
| BS 32140            |   |                      |  | 139                      | 11.4                            | 48.7                | 557                             | 55.6                | 634                             | 69.5                | 796                  | 10   |    |
| BS 32151            |   |                      |  | 152                      | 10.5                            | 53.2                | 560                             | 60.8                | 639                             | 76.0                | 800                  | 10   |    |
| BS 32176            |   |                      |  | 178                      | 8.9                             | 62.3                | 558                             | 71.2                | 634                             | 89.0                | 796                  | 10   |    |
| BS 32202            |   |                      |  | 203                      | 7.8                             | 71.1                | 555                             | 81.2                | 633                             | 101.5               | 793                  | 10   |    |
| BS 32252            |   |                      |  | 254                      | 6.2                             | 88.9                | 549                             | 102.0               | 632                             | 127.0               | 784                  | 5    |    |
| BS 32303            |   |                      |  | 305                      | 5.2                             | 106.8               | 552                             | 122.0               | 634                             | 152.5               | 788                  | 5    |    |
| BS 38050            |   |                      | 40   | 20                       | 51                              | 50.8                | 17.9                            | 908                 | 20.4                            | 1036                | 25.5                 | 1297 | 20 |
| BS 38065            |   |                      |  |                          | 64                              | 39.7                | 22.4                            | 888                 | 25.6                            | 1016                | 32.0                 | 1269 | 20 |
| BS 38075            | 76  | 33.1                 |  |                          | 26.6                            | 879                 | 30.4                            | 1006                | 38.0                            | 1256                | 20                   |      |    |
| BS 38090            | 89  | 28.1                 |  |                          | 31.2                            | 874                 | 35.6                            | 1000                | 44.5                            | 1249                | 20                   |      |    |
| BS 38101            | 102   | 24.5                 |  |                          | 35.7                            | 874                 | 40.8                            | 1000                | 51.0                            | 1249                | 20                   |      |    |
| BS 38115            | 115   | 21.6                 |  |                          | 40.3                            | 871                 | 46.0                            | 994                 | 57.5                            | 1244                | 10                   |      |    |
| BS 38126            | WIRE SECTION<br>SEZIONE FILO<br>7.80 x 3.40 | 127                  |  |                          | 19.5                            | 44.5                | 867                             | 50.8                | 991                             | 63.5                | 1239                 | 10   |    |
| BS 38140            |   | 139                  |  |                          | 17.8                            | 48.7                | 867                             | 55.6                | 990                             | 69.5                | 1238                 | 10   |    |
| BS 38151            |   | 152                  |  |                          | 16.3                            | 53.2                | 865                             | 60.8                | 991                             | 76.0                | 1235                 | 10   |    |
| BS 38176            |   | 178                  |  |                          | 13.8                            | 62.3                | 862                             | 71.2                | 983                             | 89.0                | 1231                 | 10   |    |
| BS 38202            |   | 203                  |  |                          | 12.1                            | 71.1                | 863                             | 81.2                | 983                             | 101.5               | 1232                 | 5    |    |
| BS 38252            | 254   | 9.7                  | 88.9   | 859                      | 102.0                           | 989                 | 127.0                           | 1227                | 5                               |                     |                      |      |    |
| BS 38303            | 305   | 8.0                  | 106.8  | 858                      | 122.0                           | 976                 | 152.5                           | 1226                | 5                               |                     |                      |      |    |
| BS 51065            | 50  | 25                   | 64   | 80.2                     | 22.4                            | 1796                | 25.6                            | 2053                | 32.0                            | 2566                | 20                   |      |    |
| BS 51075            |   |                      | 76   | 66.9                     | 26.6                            | 1781                | 30.4                            | 2034                | 38.0                            | 2544                | 20                   |      |    |
| BS 51090            |   |                      | 89   | 56.6                     | 31.2                            | 1763                | 35.6                            | 2015                | 44.5                            | 2519                | 10                   |      |    |
| BS 51101            |   |                      | 102  | 49.3                     | 35.7                            | 1762                | 40.8                            | 2011                | 51.0                            | 2517                | 10                   |      |    |
| BS 51115            |   |                      | 115  | 43.5                     | 40.3                            | 1751                | 46.0                            | 2001                | 57.5                            | 2501                | 10                   |      |    |
| BS 51126            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>10.70 x 4.40 | 127                      | 39.3                            | 44.5                | 1746                            | 50.8                | 1996                            | 63.5                | 2494                 | 10   |    |
| BS 51140            |   |                      |  | 139                      | 35.8                            | 48.7                | 1742                            | 55.6                | 1991                            | 69.5                | 2489                 | 10   |    |
| BS 51151            |   |                      |  | 152                      | 32.8                            | 53.2                | 1743                            | 60.8                | 1994                            | 76.0                | 2490                 | 10   |    |
| BS 51176            |   |                      |  | 178                      | 27.8                            | 62.3                | 1731                            | 71.2                | 1979                            | 89.0                | 2474                 | 5    |    |
| BS 51202            |   |                      |  | 203                      | 24.2                            | 71.1                | 1720                            | 81.2                | 1965                            | 101.5               | 2457                 | 5    |    |
| BS 51252            |   |                      | 254  | 19.2                     | 88.9                            | 1711                | 102.0                           | 1958                | 127.0                           | 2444                | 5                    |      |    |
| BS 51303            | 305   | 16.0                 | 106.8  | 1712                     | 122.0                           | 1952                | 152.5                           | 2446                | 5                               |                     |                      |      |    |
| BS 63075            | 63  | 38                   | 76   | 57.8                     | 26.6                            | 1537                | 30.4                            | 1757                | 38.0                            | 2196                | 20                   |      |    |
| BS 63090            |   |                      | 89   | 51.4                     | 31.2                            | 1601                | 35.6                            | 1830                | 44.5                            | 2287                | 10                   |      |    |
| BS 63101            |   |                      | 102  | 44.4                     | 35.7                            | 1585                | 40.8                            | 1812                | 51.0                            | 2264                | 10                   |      |    |
| BS 63115            |   |                      | 115  | 41.6                     | 40.3                            | 1674                | 46.0                            | 1914                | 57.5                            | 2392                | 10                   |      |    |
| BS 63126            |   |                      | 127  | 33.2                     | 44.5                            | 1476                | 50.8                            | 1687                | 63.5                            | 2108                | 10                   |      |    |
| BS 63151            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>11.4 x 5.10  | 152                      | 27.4                            | 53.2                | 1458                            | 60.8                | 1666                            | 76.0                | 2082                 | 10   |    |
| BS 63176            |   |                      |  | 178                      | 24.0                            | 62.3                | 1495                            | 71.2                | 1709                            | 89.0                | 2136                 | 5    |    |
| BS 63202            |   |                      |  | 203                      | 21.0                            | 71.1                | 1492                            | 81.2                | 1705                            | 101.5               | 2132                 | 5    |    |
| BS 63252            |   |                      |  | 254                      | 16.4                            | 88.9                | 1458                            | 102.0               | 1673                            | 127.0               | 2083                 | 5    |    |
| BS 63303            |   |                      | 305  | 13.6                     | 106.8                           | 1452                | 122.0                           | 1659                | 152.5                           | 2074                | 5                    |      |    |

**BG****D****d****L<sub>0</sub>****R****30%**  
LONG LIFE DEFLECTION  
DEFLESSIONE PER  
LUNGA DURATA**35%**  
AVERAGE WORKING DEF.  
DEFLESSIONE MEDIA  
DI LAVORO**40%**  
MAX WORKING DEF.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |        |     |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|--------|-----|
| BG 10025            | <b>10</b>               | <b>5</b>             | 25                                 | 10.0                     | 7.5                             | 75.0                | 8.8                             | 88.0                | 10.0                            | 100.0               | 100                  |        |     |
| BG 10032            |                         |                      | 32                                 | 8.5                      | 9.6                             | 81.6                | 11.2                            | 95.2                | 12.8                            | 108.8               | 100                  |        |     |
| BG 10038            |                         |                      | 38                                 | 6.8                      | 11.4                            | 77.5                | 13.3                            | 90.4                | 15.2                            | 103.4               | 100                  |        |     |
| BG 10045            |                         |                      | 44                                 | 6.0                      | 13.2                            | 79.2                | 15.4                            | 92.4                | 17.6                            | 105.6               | 100                  |        |     |
| BG 10050            |                         |                      | 51                                 | 5.0                      | 15.3                            | 76.5                | 17.9                            | 89.5                | 20.4                            | 102.0               | 100                  |        |     |
| BG 10065            |                         |                      | 64                                 | 4.3                      | 19.2                            | 82.6                | 22.4                            | 96.3                | 25.6                            | 110.1               | 50                   |        |     |
| BG 10075            |                         |                      | 76                                 | 3.2                      | 22.8                            | 73.0                | 26.6                            | 85.1                | 30.4                            | 97.3                | 50                   |        |     |
| BG 10303            |                         |                      | 305                                | 1.1                      | 91.5                            | 100.7               | 107.0                           | 118.0               | 122.0                           | 134.2               | 20                   |        |     |
| BG 13025            |                         |                      | <b>12.5</b>                        | <b>6.3</b>               | 25                              | 17.9                | 7.5                             | 134.0               | 8.8                             | 157.5               | 10.0                 | 179.0  | 100 |
| BG 13032            | 32                      | 16.4                 |                                    |                          | 9.6                             | 157.0               | 11.2                            | 183.7               | 12.8                            | 210.0               | 100                  |        |     |
| BG 13038            | 38                      | 13.6                 |                                    |                          | 11.4                            | 155.0               | 13.3                            | 180.9               | 15.2                            | 207.0               | 100                  |        |     |
| BG 13045            | 44                      | 12.1                 |                                    |                          | 13.2                            | 160.0               | 15.4                            | 186.3               | 17.6                            | 213.0               | 100                  |        |     |
| BG 13050            | 51                      | 11.4                 |                                    |                          | 15.3                            | 174.0               | 17.9                            | 204.1               | 20.4                            | 233.0               | 100                  |        |     |
| BG 13065            | 64                      | 9.3                  |                                    |                          | 19.2                            | 179.0               | 22.4                            | 208.3               | 25.6                            | 238.0               | 50                   |        |     |
| BG 13075            | 76                      | 7.1                  |                                    |                          | 22.8                            | 161.9               | 26.6                            | 188.9               | 30.4                            | 216.0               | 50                   |        |     |
| BG 13090            | 89                      | 5.4                  |                                    |                          | 26.7                            | 144.2               | 31.2                            | 168.5               | 35.6                            | 192.0               | 50                   |        |     |
| BG 13101            | 102                     | 4.6                  |                                    |                          | 30.6                            | 140.8               | 35.7                            | 164.2               | 40.8                            | 188.0               | 50                   |        |     |
| BG 13303            | 305                     | 1.4                  | 91.5                               | 128.1                    | 107.0                           | 149.8               | 122.0                           | 171.0               | 20                              |                     |                      |        |     |
| BG 16025            | <b>16</b>               | <b>8</b>             | 25                                 | 23.4                     | 7.5                             | 176.0               | 8.8                             | 206.0               | 10.0                            | 234.0               | 100                  |        |     |
| BG 16032            |                         |                      | 32                                 | 22.9                     | 9.6                             | 220.0               | 11.2                            | 257.0               | 12.8                            | 293.0               | 100                  |        |     |
| BG 16038            |                         |                      | 38                                 | 19.3                     | 11.4                            | 220.0               | 13.3                            | 257.0               | 15.2                            | 293.0               | 100                  |        |     |
| BG 16045            |                         |                      | 44                                 | 17.1                     | 13.2                            | 226.0               | 15.4                            | 263.0               | 17.6                            | 301.0               | 100                  |        |     |
| BG 16050            |                         |                      | 51                                 | 15.7                     | 15.3                            | 240.0               | 17.9                            | 281.0               | 20.4                            | 320.0               | 100                  |        |     |
| BG 16065            |                         |                      | 64                                 | 10.7                     | 19.2                            | 205.0               | 22.4                            | 240.0               | 25.6                            | 274.0               | 50                   |        |     |
| BG 16075            |                         |                      | 76                                 | 10.0                     | 22.8                            | 228.0               | 26.6                            | 266.0               | 30.4                            | 304.0               | 50                   |        |     |
| BG 16090            |                         |                      | 89                                 | 8.6                      | 26.7                            | 230.0               | 31.2                            | 268.0               | 35.6                            | 306.0               | 50                   |        |     |
| BG 16101            |                         |                      | 102                                | 7.8                      | 30.6                            | 239.0               | 35.7                            | 279.0               | 40.8                            | 318.0               | 50                   |        |     |
| BG 16115            |                         |                      | 115                                | 7.0                      | 34.5                            | 242.0               | 40.3                            | 282.0               | 46.0                            | 322.0               | 50                   |        |     |
| BG 16303            |                         |                      | 305                                | 2.5                      | 91.5                            | 229.0               | 107.0                           | 268.0               | 122.0                           | 305.0               | 20                   |        |     |
| BG 19025            |                         |                      | <b>20</b>                          | <b>10</b>                | 25                              | 55.8                | 7.5                             | 419.0               | 8.8                             | 491.0               | 10.0                 | 558.0  | 100 |
| BG 19032            |                         |                      |                                    |                          | 32                              | 45.0                | 9.6                             | 432.0               | 11.2                            | 504.0               | 12.8                 | 576.0  | 100 |
| BG 19038            |                         |                      |                                    |                          | 38                              | 33.3                | 11.4                            | 380.0               | 13.3                            | 443.0               | 15.2                 | 506.0  | 100 |
| BG 19045            |                         |                      |                                    |                          | 44                              | 30.0                | 13.2                            | 396.0               | 15.4                            | 462.0               | 17.6                 | 528.0  | 100 |
| BG 19050            | 51                      | 24.5                 |                                    |                          | 15.3                            | 375.0               | 17.9                            | 439.0               | 20.4                            | 500.0               | 100                  |        |     |
| BG 19065            | 64                      | 20.0                 |                                    |                          | 19.2                            | 384.0               | 22.4                            | 448.0               | 25.6                            | 512.0               | 50                   |        |     |
| BG 19075            | 76                      | 16.0                 |                                    |                          | 22.8                            | 365.0               | 26.6                            | 426.0               | 30.4                            | 486.0               | 50                   |        |     |
| BG 19090            | 89                      | 14.0                 |                                    |                          | 26.7                            | 374.0               | 31.2                            | 437.0               | 35.6                            | 498.0               | 50                   |        |     |
| BG 19101            | 102                     | 12.0                 |                                    |                          | 30.6                            | 367.0               | 35.7                            | 428.0               | 40.8                            | 490.0               | 50                   |        |     |
| BG 19115            | 115                     | 10.9                 |                                    |                          | 34.5                            | 376.0               | 40.3                            | 439.0               | 46.0                            | 501.0               | 20                   |        |     |
| BG 19126            | 127                     | 9.5                  |                                    |                          | 38.1                            | 362.0               | 44.5                            | 423.0               | 50.8                            | 483.0               | 20                   |        |     |
| BG 19140            | 139                     | 8.4                  |                                    |                          | 41.7                            | 350.0               | 48.7                            | 409.0               | 55.6                            | 467.0               | 20                   |        |     |
| BG 19151            | 152                     | 7.5                  |                                    |                          | 45.6                            | 342.0               | 53.2                            | 399.0               | 60.8                            | 456.0               | 20                   |        |     |
| BG 19303            | 305                     | 4.0                  |                                    |                          | 91.5                            | 366.0               | 107.0                           | 428.0               | 122.0                           | 488.0               | 10                   |        |     |
| BG 26025            | <b>25</b>               | <b>12.5</b>          |                                    |                          | 25                              | 100.0               | 7.5                             | 750.0               | 8.8                             | 880.0               | 10.0                 | 1000.0 | 100 |
| BG 26032            |                         |                      | 32                                 | 80.3                     | 9.6                             | 771.0               | 11.2                            | 899.0               | 12.8                            | 1028.0              | 50                   |        |     |
| BG 26038            |                         |                      | 38                                 | 62.0                     | 11.4                            | 707.0               | 13.3                            | 825.0               | 15.2                            | 942.0               | 50                   |        |     |
| BG 26045            |                         |                      | 44                                 | 52.9                     | 13.2                            | 698.0               | 15.4                            | 815.0               | 17.6                            | 931.0               | 50                   |        |     |
| BG 26050            |                         |                      | 51                                 | 44.0                     | 15.3                            | 673.0               | 17.9                            | 788.0               | 20.4                            | 898.0               | 50                   |        |     |
| BG 26065            |                         |                      | 64                                 | 35.2                     | 19.2                            | 676.0               | 22.4                            | 789.0               | 25.6                            | 901.0               | 50                   |        |     |
| BG 26075            |                         |                      | 76                                 | 28.0                     | 22.8                            | 638.0               | 26.6                            | 745.0               | 30.4                            | 851.0               | 20                   |        |     |
| BG 26090            |                         |                      | 89                                 | 24.0                     | 26.7                            | 641.0               | 31.2                            | 749.0               | 35.6                            | 854.0               | 20                   |        |     |
| BG 26101            |                         |                      | 102                                | 21.1                     | 30.6                            | 646.0               | 35.7                            | 753.0               | 40.8                            | 861.0               | 20                   |        |     |
| BG 26115            |                         |                      | 115                                | 18.7                     | 34.5                            | 645.0               | 40.3                            | 754.0               | 46.0                            | 860.0               | 20                   |        |     |
| BG 26126            |                         |                      | 127                                | 16.7                     | 38.1                            | 636.0               | 44.5                            | 743.0               | 50.8                            | 848.0               | 10                   |        |     |
| BG 26140            |                         |                      | 139                                | 15.3                     | 41.7                            | 638.0               | 48.7                            | 745.0               | 55.6                            | 851.0               | 10                   |        |     |
| BG 26151            |                         |                      | 152                                | 14.0                     | 45.6                            | 638.0               | 53.2                            | 745.0               | 60.8                            | 851.0               | 10                   |        |     |
| BG 26176            |                         |                      | 178                                | 12.5                     | 53.4                            | 668.0               | 62.3                            | 779.0               | 71.2                            | 890.0               | 10                   |        |     |
| BG 26202            |                         |                      | 203                                | 10.4                     | 60.9                            | 633.0               | 71.1                            | 739.0               | 81.2                            | 844.0               | 10                   |        |     |
| BG 26303            | 305                     | 7.0                  | 91.5                               | 641.0                    | 107.0                           | 749.0               | 122.0                           | 854.0               | 5                               |                     |                      |        |     |

BG  
LIGHT LOAD / CARICO LEGGERO



**30%**  
LONG LIFE DEFECTION  
DEFLESSIONE PER  
LUNGA DURATA



**35%**  
AVERAGE WORKING DEFL.  
DEFLESSIONE MEDIA  
DI LAVORO



**40%**  
MAX WORKING DEFL.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm                   | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm         | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |      |      |    |
|---------------------|---|----------------------|--|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|------|------|----|
| BG 32038            | <b>32</b>                                 | <b>16</b>            | 38   | 94.0                     | 11.4                            | 1072                | 13.3                            | 1250                | 15.2                            | 1429                | 20                   |      |      |    |
| BG 32045            |   |                      | 44   | 79.5                     | 13.2                            | 1049                | 15.4                            | 1224                | 17.6                            | 1399                | 20                   |      |      |    |
| BG 32050            |   |                      | 51   | 67.0                     | 15.3                            | 1025                | 17.9                            | 1199                | 20.4                            | 1367                | 20                   |      |      |    |
| BG 32065            |   |                      | 64   | 53.0                     | 19.2                            | 1018                | 22.4                            | 1187                | 25.6                            | 1357                | 20                   |      |      |    |
| BG 32075            |   |                      | 76   | 44.0                     | 22.8                            | 1003                | 26.6                            | 1170                | 30.4                            | 1338                | 20                   |      |      |    |
| BG 32090            |   |                      | 89   | 37.2                     | 26.7                            | 993                 | 31.2                            | 1161                | 35.6                            | 1324                | 20                   |      |      |    |
| BG 32101            |   |                      | 102  | 32.0                     | 30.6                            | 979                 | 35.7                            | 1142                | 40.8                            | 1306                | 20                   |      |      |    |
| BG 32115            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>6.7 x 3.3  | 115                      | 29.0                            | 34.5                | 1001                            | 40.3                | 1169                            | 46.0                | 1334                 | 10   |      |    |
| BG 32126            |   |                      |  | 127                      | 25.0                            | 38.1                | 953                             | 44.5                | 1113                            | 50.8                | 1270                 | 10   |      |    |
| BG 32140            |   |                      |  | 139                      | 23.0                            | 41.7                | 959                             | 48.7                | 1120                            | 55.6                | 1279                 | 10   |      |    |
| BG 32151            |   |                      |  | 152                      | 21.5                            | 45.6                | 980                             | 53.2                | 1144                            | 60.8                | 1307                 | 10   |      |    |
| BG 32176            |   |                      |  | 178                      | 18.2                            | 53.4                | 972                             | 62.3                | 1134                            | 71.2                | 1296                 | 10   |      |    |
| BG 32202            |   |                      |  | 203                      | 15.8                            | 60.9                | 962                             | 71.1                | 1123                            | 81.2                | 1283                 | 10   |      |    |
| BG 32252            |   |                      |  | 254                      | 12.5                            | 76.2                | 953                             | 88.9                | 1111                            | 101.6               | 1270                 | 5    |      |    |
| BG 32303            |   |                      |  | 305                      | 10.3                            | 91.5                | 942                             | 107.0               | 1102                            | 122.0               | 1257                 | 5    |      |    |
| BG 38050            |   |                      |  | <b>40</b>                | <b>20</b>                       | 51                  | 92.0                            | 15.3                | 1408                            | 17.9                | 1647                 | 20.4 | 1877 | 20 |
| BG 38065            |   |                      |  |                          |                                 | 64                  | 73.0                            | 19.2                | 1402                            | 22.4                | 1635                 | 25.6 | 1869 | 20 |
| BG 38075            | 76  | 63.0                 | 22.8                                       |                          |                                 | 1436                | 26.6                            | 1676                | 30.4                            | 1915                | 20                   |      |      |    |
| BG 38090            | 89  | 51.0                 | 26.7                                       |                          |                                 | 1362                | 31.2                            | 1591                | 35.6                            | 1816                | 20                   |      |      |    |
| BG 38101            | 102                                       | 43.0                 | 30.6                                       |                          |                                 | 1316                | 35.7                            | 1535                | 40.8                            | 1754                | 20                   |      |      |    |
| BG 38115            | 115                                       | 39.6                 | 34.5                                       |                          |                                 | 1366                | 40.3                            | 1596                | 46.0                            | 1822                | 10                   |      |      |    |
| BG 38126            | WIRE SECTION<br>SEZIONE FILO<br>8.0 x 4.0 | 127                  | 37.0                                       |                          |                                 | 38.1                | 1410                            | 44.5                | 1647                            | 50.8                | 1880                 | 10   |      |    |
| BG 38140            |   | 139                  | 32.0                                       |                          |                                 | 41.7                | 1334                            | 48.7                | 1558                            | 55.6                | 1779                 | 10   |      |    |
| BG 38151            |   | 152                  | 28.0                                       |                          |                                 | 45.6                | 1277                            | 53.2                | 1490                            | 60.8                | 1702                 | 10   |      |    |
| BG 38176            |   | 178                  | 25.2                                       |                          |                                 | 53.4                | 1346                            | 62.3                | 1570                            | 71.2                | 1794                 | 10   |      |    |
| BG 38202            |   | 203                  | 22.7                                       |                          |                                 | 60.9                | 1382                            | 71.1                | 1614                            | 81.2                | 1843                 | 5    |      |    |
| BG 38252            |   | 254                  | 17.0                                       |                          |                                 | 76.2                | 1295                            | 88.9                | 1511                            | 101.6               | 1727                 | 5    |      |    |
| BG 38303            |   | 305                  | 14.8                                       |                          |                                 | 91.5                | 1354                            | 107.0               | 1584                            | 122.0               | 1806                 | 5    |      |    |
| BG 51065            | <b>50</b>                                 | <b>25</b>            | 64   | 156.0                    | 19.2                            | 2995                | 22.4                            | 3494                | 25.6                            | 3994                | 20                   |      |      |    |
| BG 51075            |   |                      | 76   | 125.0                    | 22.8                            | 2850                | 26.6                            | 3325                | 30.4                            | 3800                | 20                   |      |      |    |
| BG 51090            |   |                      | 89   | 109.0                    | 26.7                            | 2910                | 31.2                            | 3401                | 35.6                            | 3880                | 10                   |      |      |    |
| BG 51101            |   |                      | 102  | 94.0                     | 30.6                            | 2876                | 35.7                            | 3356                | 40.8                            | 3835                | 10                   |      |      |    |
| BG 51115            |   |                      | 115  | 81.0                     | 34.5                            | 2795                | 40.3                            | 3264                | 46.0                            | 3726                | 10                   |      |      |    |
| BG 51126            |   |                      | 127  | 71.0                     | 38.1                            | 2705                | 44.5                            | 3160                | 50.8                            | 3607                | 10                   |      |      |    |
| BG 51140            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>11.1 x 5.5 | 139                      | 66.5                            | 41.7                | 2773                            | 48.7                | 3239                            | 55.6                | 3697                 | 10   |      |    |
| BG 51151            |   |                      |  | 152                      | 60.0                            | 45.6                | 2736                            | 53.2                | 3192                            | 60.8                | 3648                 | 10   |      |    |
| BG 51176            |   |                      |  | 178                      | 52.0                            | 53.4                | 2777                            | 62.3                | 3240                            | 71.2                | 3702                 | 5    |      |    |
| BG 51202            |   |                      |  | 203                      | 44.0                            | 60.9                | 2680                            | 71.1                | 3128                            | 81.2                | 3573                 | 5    |      |    |
| BG 51229            |   |                      |  | 229                      | 38.2                            | 68.7                | 2624                            | 80.15               | 3062                            | 91.6                | 3499                 | 5    |      |    |
| BG 51252            |   |                      |  | 254                      | 35.0                            | 76.2                | 2667                            | 88.9                | 3112                            | 101.6               | 3556                 | 5    |      |    |
| BG 51303            |   |                      |  | 305                      | 28.5                            | 91.5                | 2608                            | 107.0               | 3050                            | 122.0               | 3477                 | 5    |      |    |
| BG 63075            | <b>63</b>                                 | <b>38</b>            | 76   | 189.0                    | 22.8                            | 4309                | 26.6                            | 5027                | 30.4                            | 5746                | 20                   |      |      |    |
| BG 63090            |   |                      | 89   | 158.0                    | 26.7                            | 4219                | 31.2                            | 4930                | 35.6                            | 5625                | 10                   |      |      |    |
| BG 63101            |   |                      | 102  | 131.0                    | 30.6                            | 4009                | 35.7                            | 4677                | 40.8                            | 5345                | 10                   |      |      |    |
| BG 63115            |   |                      | 115  | 116.0                    | 34.5                            | 4002                | 40.3                            | 4675                | 46.0                            | 5336                | 10                   |      |      |    |
| BG 63126            |   |                      | 127  | 103.0                    | 38.1                            | 3924                | 44.5                            | 4584                | 50.8                            | 5232                | 10                   |      |      |    |
| BG 63151            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>11.6 x 7.7 | 152                      | 84.3                            | 45.6                | 3844                            | 53.2                | 4485                            | 60.8                | 5125                 | 10   |      |    |
| BG 63176            |   |                      |  | 178                      | 71.5                            | 53.4                | 3818                            | 62.3                | 4454                            | 71.2                | 5091                 | 5    |      |    |
| BG 63202            |   |                      |  | 203                      | 61.7                            | 60.9                | 3758                            | 71.1                | 4387                            | 81.2                | 5010                 | 5    |      |    |
| BG 63252            |   |                      |  | 254                      | 47.0                            | 76.2                | 3581                            | 88.9                | 4178                            | 101.6               | 4775                 | 5    |      |    |
| BG 63303            |   |                      |  | 305                      | 38.2                            | 91.5                | 3495                            | 107.0               | 4087                            | 122.0               | 4660                 | 5    |      |    |



# BA

**D****d****L<sub>0</sub>****R****25%**  
LONG LIFE DEFLECTION  
DEFLESSIONE PER  
LUNGA DURATA**30%**  
AVERAGE WORKING DEF.  
DEFLESSIONE MEDIA  
DI LAVORO**37.5%**  
MAX WORKING DEF.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |     |     |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|-----|-----|
| BA 10025            | <b>10</b>               | <b>5</b>             | 25                                 | 16.0                     | 6.25                            | 100                 | 7.5                             | 120                 | 9.4                             | 150                 | 100                  |     |     |
| BA 10032            |                         |                      | 32                                 | 13.0                     | 8.0                             | 104                 | 9.6                             | 125                 | 12.0                            | 156                 | 100                  |     |     |
| BA 10038            |                         |                      | 38                                 | 11.9                     | 9.5                             | 113                 | 11.4                            | 136                 | 14.3                            | 170                 | 100                  |     |     |
| BA 10045            |                         |                      | 44                                 | 10.3                     | 11.0                            | 113                 | 13.2                            | 136                 | 16.5                            | 170                 | 100                  |     |     |
| BA 10050            |                         |                      | 51                                 | 8.9                      | 12.75                           | 114                 | 15.3                            | 136                 | 19.1                            | 170                 | 100                  |     |     |
| BA 10065            |                         |                      | 64                                 | 7.5                      | 16.0                            | 120                 | 19.2                            | 144                 | 24.0                            | 180                 | 50                   |     |     |
| BA 10075            |                         |                      | 76                                 | 5.3                      | 19.0                            | 101                 | 22.8                            | 121                 | 28.5                            | 151                 | 50                   |     |     |
| BA 10303            |                         |                      | 305                                | 1.6                      | 76.25                           | 122                 | 91.5                            | 146                 | 114.4                           | 183                 | 20                   |     |     |
| BA 13025            |                         |                      | <b>12.5</b>                        | <b>6.3</b>               | 25                              | 30.0                | 6.3                             | 188                 | 7.5                             | 225                 | 9.4                  | 281 | 100 |
| BA 13032            | 32                      | 24.8                 |                                    |                          | 8.0                             | 198                 | 9.6                             | 238                 | 12.0                            | 298                 | 100                  |     |     |
| BA 13038            | 38                      | 21.4                 |                                    |                          | 9.5                             | 203                 | 11.4                            | 244                 | 14.3                            | 305                 | 100                  |     |     |
| BA 13045            | 44                      | 18.5                 |                                    |                          | 11.0                            | 204                 | 13.2                            | 244                 | 16.5                            | 305                 | 100                  |     |     |
| BA 13050            | 51                      | 15.5                 |                                    |                          | 12.8                            | 198                 | 15.3                            | 237                 | 19.1                            | 296                 | 100                  |     |     |
| BA 13065            | 64                      | 12.1                 |                                    |                          | 16.0                            | 194                 | 19.2                            | 232                 | 24.0                            | 290                 | 50                   |     |     |
| BA 13075            | 76                      | 10.2                 |                                    |                          | 19.0                            | 194                 | 22.8                            | 233                 | 28.5                            | 291                 | 50                   |     |     |
| BA 13090            | 89                      | 8.4                  |                                    |                          | 22.2                            | 187                 | 26.7                            | 224                 | 33.4                            | 280                 | 50                   |     |     |
| BA 13101            | 102                     | 7.1                  |                                    |                          | 25.5                            | 181                 | 30.6                            | 217                 | 38.2                            | 272                 | 50                   |     |     |
| BA 13303            | 305                     | 2.1                  | 76.2                               | 160                      | 91.5                            | 192                 | 114.4                           | 240                 | 20                              |                     |                      |     |     |
| BA 16025            | <b>16</b>               | <b>8</b>             | 25                                 | 49.4                     | 6.3                             | 309                 | 7.5                             | 371                 | 9.4                             | 463                 | 100                  |     |     |
| BA 16032            |                         |                      | 32                                 | 37.1                     | 8.0                             | 297                 | 9.6                             | 356                 | 12.0                            | 445                 | 100                  |     |     |
| BA 16038            |                         |                      | 38                                 | 33.9                     | 9.5                             | 322                 | 11.4                            | 387                 | 14.3                            | 483                 | 100                  |     |     |
| BA 16045            |                         |                      | 44                                 | 30.0                     | 11.0                            | 330                 | 13.2                            | 396                 | 16.5                            | 495                 | 100                  |     |     |
| BA 16050            |                         |                      | 51                                 | 26.4                     | 12.8                            | 337                 | 15.3                            | 404                 | 19.1                            | 505                 | 100                  |     |     |
| BA 16065            |                         |                      | 64                                 | 20.5                     | 16.0                            | 328                 | 19.2                            | 394                 | 24.0                            | 492                 | 50                   |     |     |
| BA 16075            |                         |                      | 76                                 | 17.8                     | 19.0                            | 338                 | 22.8                            | 406                 | 28.5                            | 507                 | 50                   |     |     |
| BA 16090            |                         |                      | 89                                 | 15.2                     | 22.2                            | 338                 | 26.7                            | 406                 | 33.4                            | 507                 | 50                   |     |     |
| BA 16101            |                         |                      | 102                                | 13.5                     | 25.5                            | 344                 | 30.6                            | 413                 | 38.2                            | 516                 | 50                   |     |     |
| BA 16115            |                         |                      | 115                                | 12.0                     | 28.8                            | 345                 | 34.5                            | 414                 | 43.1                            | 518                 | 50                   |     |     |
| BA 16303            |                         |                      | 305                                | 4.8                      | 76.2                            | 366                 | 91.5                            | 439                 | 114.4                           | 549                 | 20                   |     |     |
| BA 19025            |                         |                      | <b>20</b>                          | <b>10</b>                | 25                              | 98.0                | 6.3                             | 613                 | 7.5                             | 735                 | 9.4                  | 919 | 100 |
| BA 19032            |                         |                      |                                    |                          | 32                              | 72.6                | 8.0                             | 581                 | 9.6                             | 697                 | 12.0                 | 871 | 100 |
| BA 19038            | 38                      | 56.0                 |                                    |                          | 9.5                             | 532                 | 11.4                            | 638                 | 14.3                            | 798                 | 100                  |     |     |
| BA 19045            | 44                      | 47.5                 |                                    |                          | 11.0                            | 523                 | 13.2                            | 627                 | 16.5                            | 784                 | 100                  |     |     |
| BA 19050            | 51                      | 41.7                 |                                    |                          | 12.8                            | 532                 | 15.3                            | 638                 | 19.1                            | 798                 | 100                  |     |     |
| BA 19065            | 64                      | 32.3                 |                                    |                          | 16.0                            | 517                 | 19.2                            | 620                 | 24.0                            | 775                 | 50                   |     |     |
| BA 19075            | 76                      | 25.1                 |                                    |                          | 19.0                            | 477                 | 22.8                            | 572                 | 28.5                            | 715                 | 50                   |     |     |
| BA 19090            | 89                      | 22.0                 |                                    |                          | 22.2                            | 490                 | 26.7                            | 587                 | 33.4                            | 734                 | 50                   |     |     |
| BA 19101            | 102                     | 19.8                 |                                    |                          | 25.5                            | 505                 | 30.6                            | 606                 | 38.2                            | 757                 | 50                   |     |     |
| BA 19115            | 115                     | 18.1                 |                                    |                          | 28.8                            | 520                 | 34.5                            | 625                 | 43.1                            | 781                 | 20                   |     |     |
| BA 19126            | 127                     | 16.6                 |                                    |                          | 31.8                            | 527                 | 38.1                            | 633                 | 47.6                            | 791                 | 20                   |     |     |
| BA 19140            | 139                     | 15.1                 |                                    |                          | 34.8                            | 525                 | 42.0                            | 634                 | 52.1                            | 787                 | 20                   |     |     |
| BA 19151            | 152                     | 13.2                 |                                    |                          | 38.0                            | 502                 | 45.6                            | 602                 | 57.0                            | 752                 | 20                   |     |     |
| BA 19303            | 305                     | 6.1                  | 76.2                               | 465                      | 91.5                            | 558                 | 114.4                           | 698                 | 10                              |                     |                      |     |     |
| BA 26025            | <b>25</b>               | <b>12.5</b>          | 25                                 | 147.0                    | 6.3                             | 919                 | 7.5                             | 1103                | 9.4                             | 1378                | 100                  |     |     |
| BA 26032            |                         |                      | 32                                 | 118.0                    | 8.0                             | 944                 | 9.6                             | 1133                | 12.0                            | 1416                | 50                   |     |     |
| BA 26038            |                         |                      | 38                                 | 93.0                     | 9.5                             | 884                 | 11.4                            | 1060                | 14.3                            | 1325                | 50                   |     |     |
| BA 26045            |                         |                      | 44                                 | 80.8                     | 11.0                            | 889                 | 13.2                            | 1067                | 16.5                            | 1333                | 50                   |     |     |
| BA 26050            |                         |                      | 51                                 | 68.6                     | 12.8                            | 875                 | 15.3                            | 1050                | 19.1                            | 1312                | 50                   |     |     |
| BA 26065            |                         |                      | 64                                 | 53.0                     | 16.0                            | 848                 | 19.2                            | 1018                | 24.0                            | 1272                | 50                   |     |     |
| BA 26075            |                         |                      | 76                                 | 43.2                     | 19.0                            | 821                 | 22.8                            | 985                 | 28.5                            | 1231                | 20                   |     |     |
| BA 26090            |                         |                      | 89                                 | 38.2                     | 22.2                            | 850                 | 26.7                            | 1020                | 33.4                            | 1275                | 20                   |     |     |
| BA 26101            |                         |                      | 102                                | 33.0                     | 25.5                            | 842                 | 30.6                            | 1010                | 38.2                            | 1262                | 20                   |     |     |
| BA 26115            |                         |                      | 115                                | 28.0                     | 28.8                            | 805                 | 34.5                            | 966                 | 43.1                            | 1208                | 20                   |     |     |
| BA 26126            |                         |                      | 127                                | 25.9                     | 31.8                            | 822                 | 38.1                            | 987                 | 47.6                            | 1233                | 10                   |     |     |
| BA 26140            |                         |                      | 139                                | 23.2                     | 34.8                            | 806                 | 42.0                            | 974                 | 52.1                            | 1209                | 10                   |     |     |
| BA 26151            |                         |                      | 152                                | 20.8                     | 38.0                            | 790                 | 45.6                            | 949                 | 57.0                            | 1186                | 10                   |     |     |
| BA 26176            |                         |                      | 178                                | 17.8                     | 44.5                            | 792                 | 53.4                            | 951                 | 66.8                            | 1188                | 10                   |     |     |
| BA 26202            |                         |                      | 203                                | 15.8                     | 50.8                            | 802                 | 60.9                            | 962                 | 76.1                            | 1203                | 10                   |     |     |
| BA 26303            |                         |                      | 305                                | 10.2                     | 76.2                            | 778                 | 91.5                            | 933                 | 114.4                           | 1167                | 5                    |     |     |

**MEDIUM LOAD / CARICO MEDIO**



**25%**  
LONG LIFE DEFECTION  
DEFLESSIONE PER  
LUNGA DURATA



**30%**  
AVERAGE WORKING DEFL.  
DEFLESSIONE MEDIA  
DI LAVORO



**37.5%**  
MAX WORKING DEFL.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|
| BA 32038            | <b>32</b>               | <b>16</b>            | 38                                 | 185.0                    | 9.5                             | 1758                | 11.4                            | 2109                | 14.3                            | 2636                | 20                   |
| BA 32045            |                         |                      | 44                                 | 158.0                    | 11.0                            | 1738                | 13.2                            | 2086                | 16.5                            | 2607                | 20                   |
| BA 32050            |                         |                      | 51                                 | 134.0                    | 12.8                            | 1709                | 15.3                            | 2050                | 19.1                            | 2563                | 20                   |
| BA 32065            |                         |                      | 64                                 | 99.0                     | 16.0                            | 1584                | 19.2                            | 1901                | 24.0                            | 2376                | 20                   |
| BA 32075            |                         |                      | 76                                 | 80.5                     | 19.0                            | 1530                | 22.8                            | 1835                | 28.5                            | 2294                | 20                   |
| BA 32090            |                         |                      | 89                                 | 69.1                     | 22.2                            | 1538                | 26.7                            | 1845                | 33.4                            | 2306                | 20                   |
| BA 32101            |                         |                      | 102                                | 58.8                     | 25.5                            | 1499                | 30.6                            | 1799                | 38.2                            | 2249                | 20                   |
| BA 32115            |                         |                      | 115                                | 51.5                     | 28.8                            | 1481                | 34.5                            | 1777                | 43.1                            | 2221                | 10                   |
| BA 32126            |                         |                      | 127                                | 44.8                     | 31.8                            | 1422                | 38.1                            | 1707                | 47.6                            | 2134                | 10                   |
| BA 32140            |                         |                      | 139                                | 42.3                     | 34.8                            | 1470                | 42.0                            | 1777                | 52.1                            | 2205                | 10                   |
| BA 32151            |                         |                      | 152                                | 37.8                     | 38.0                            | 1436                | 45.6                            | 1724                | 57.0                            | 2155                | 10                   |
| BA 32176            |                         |                      | 178                                | 32.5                     | 44.5                            | 1446                | 53.4                            | 1736                | 66.8                            | 2169                | 10                   |
| BA 32202            |                         |                      | 203                                | 28.9                     | 50.8                            | 1467                | 60.9                            | 1760                | 76.1                            | 2200                | 10                   |
| BA 32252            |                         |                      | 254                                | 21.4                     | 63.5                            | 1359                | 76.2                            | 1631                | 95.2                            | 2038                | 5                    |
| BA 32303            |                         |                      | 305                                | 18.3                     | 76.2                            | 1395                | 91.5                            | 1675                | 114.4                           | 2093                | 5                    |
| BA 38050            | <b>40</b>               | <b>20</b>            | 51                                 | 181.6                    | 12.8                            | 2315                | 15.3                            | 2779                | 19.1                            | 3473                | 20                   |
| BA 38065            |                         |                      | 64                                 | 140.0                    | 16.0                            | 2240                | 19.2                            | 2688                | 24.0                            | 3360                | 20                   |
| BA 38075            |                         |                      | 76                                 | 108.0                    | 19.0                            | 2052                | 22.8                            | 2462                | 28.5                            | 3078                | 20                   |
| BA 38090            |                         |                      | 89                                 | 90.7                     | 22.2                            | 2018                | 26.7                            | 2422                | 33.4                            | 3027                | 20                   |
| BA 38101            |                         |                      | 102                                | 81.0                     | 25.5                            | 2066                | 30.6                            | 2479                | 38.2                            | 3098                | 20                   |
| BA 38115            |                         |                      | 115                                | 71.8                     | 28.8                            | 2064                | 34.5                            | 2477                | 43.1                            | 3096                | 10                   |
| BA 38126            |                         |                      | 127                                | 62.7                     | 31.8                            | 1991                | 38.1                            | 2389                | 47.6                            | 2986                | 10                   |
| BA 38140            |                         |                      | 139                                | 57.5                     | 34.8                            | 1998                | 42.0                            | 2415                | 52.1                            | 2997                | 10                   |
| BA 38151            |                         |                      | 152                                | 51.6                     | 38.0                            | 1961                | 45.6                            | 2353                | 57.0                            | 2941                | 10                   |
| BA 38160            |                         |                      | 160                                | 47.5                     | 40.0                            | 1900                | 48.0                            | 2280                | 60.0                            | 2850                | 10                   |
| BA 38176            |                         |                      | 178                                | 44.1                     | 44.5                            | 1963                | 53.4                            | 2355                | 66.8                            | 2944                | 10                   |
| BA 38202            |                         |                      | 203                                | 36.7                     | 50.8                            | 1863                | 60.9                            | 2235                | 76.1                            | 2794                | 5                    |
| BA 38252            |                         |                      | 254                                | 30.1                     | 63.5                            | 1911                | 76.2                            | 2294                | 95.2                            | 2867                | 5                    |
| BA 38303            |                         |                      | 305                                | 24.6                     | 76.2                            | 1876                | 91.5                            | 2251                | 114.4                           | 2814                | 5                    |
| BA 51065            |                         |                      | <b>50</b>                          | <b>25</b>                | 64                              | 209.0               | 16.0                            | 3344                | 19.2                            | 4013                | 24.0                 |
| BA 51075            | 76                      | 168.0                |                                    |                          | 19.0                            | 3192                | 22.8                            | 3830                | 28.5                            | 4788                | 20                   |
| BA 51090            | 89                      | 140.0                |                                    |                          | 22.2                            | 3115                | 26.7                            | 3738                | 33.4                            | 4673                | 10                   |
| BA 51101            | 102                     | 119.0                |                                    |                          | 25.5                            | 3035                | 30.6                            | 3641                | 38.2                            | 4552                | 10                   |
| BA 51115            | 115                     | 106.0                |                                    |                          | 28.8                            | 3048                | 34.5                            | 3657                | 43.1                            | 4571                | 10                   |
| BA 51126            | 127                     | 97.0                 |                                    |                          | 31.8                            | 3080                | 38.1                            | 3696                | 47.6                            | 4620                | 10                   |
| BA 51140            | 139                     | 87.0                 |                                    |                          | 34.8                            | 3023                | 42.0                            | 3654                | 52.1                            | 4535                | 10                   |
| BA 51151            | 152                     | 80.0                 |                                    |                          | 38.0                            | 3040                | 45.6                            | 3648                | 57.0                            | 4560                | 10                   |
| BA 51160            | 160                     | 76.0                 |                                    |                          | 40.0                            | 3040                | 48.0                            | 3648                | 60.0                            | 4560                | 10                   |
| BA 51176            | 178                     | 69.5                 |                                    |                          | 44.5                            | 3093                | 53.4                            | 3711                | 66.8                            | 4639                | 5                    |
| BA 51202            | 203                     | 59.8                 |                                    |                          | 50.8                            | 3035                | 60.9                            | 3642                | 76.1                            | 4552                | 5                    |
| BA 51229            | 229                     | 50.9                 |                                    |                          | 57.2                            | 2914                | 68.7                            | 3497                | 85.9                            | 4371                | 5                    |
| BA 51252            | 254                     | 43.9                 |                                    |                          | 63.5                            | 2788                | 76.2                            | 3345                | 95.2                            | 4182                | 5                    |
| BA 51303            | 305                     | 38.6                 |                                    |                          | 76.2                            | 2943                | 91.5                            | 3532                | 114.4                           | 4415                | 5                    |
| BA 63075            | <b>63</b>               | <b>38</b>            |                                    |                          | 76                              | 312.0               | 19.0                            | 5928                | 22.8                            | 7114                | 28.5                 |
| BA 63090            |                         |                      | 89                                 | 260.0                    | 22.2                            | 5785                | 26.7                            | 6942                | 33.4                            | 8678                | 10                   |
| BA 63101            |                         |                      | 102                                | 221.0                    | 25.5                            | 5636                | 30.6                            | 6763                | 38.2                            | 8453                | 10                   |
| BA 63115            |                         |                      | 115                                | 187.0                    | 28.8                            | 5376                | 34.5                            | 6452                | 43.1                            | 8064                | 10                   |
| BA 63126            |                         |                      | 127                                | 168.0                    | 31.8                            | 5334                | 38.1                            | 6401                | 47.6                            | 8001                | 10                   |
| BA 63151            |                         |                      | 152                                | 136.0                    | 38.0                            | 5168                | 45.6                            | 6202                | 57.0                            | 7752                | 10                   |
| BA 63160            |                         |                      | 160                                | 128.0                    | 40.0                            | 5120                | 48.0                            | 6144                | 60.0                            | 7680                | 10                   |
| BA 63176            |                         |                      | 178                                | 114.0                    | 44.5                            | 5073                | 53.4                            | 6088                | 66.8                            | 7610                | 5                    |
| BA 63202            |                         |                      | 203                                | 100.0                    | 50.8                            | 5075                | 60.9                            | 6090                | 76.1                            | 7613                | 5                    |
| BA 63229            |                         |                      | 229                                | 89.2                     | 57.2                            | 5107                | 68.7                            | 6128                | 85.9                            | 7660                | 5                    |
| BA 63252            |                         |                      | 254                                | 78.4                     | 63.5                            | 4978                | 76.2                            | 5974                | 95.2                            | 7468                | 5                    |
| BA 63303            |                         |                      | 305                                | 64.7                     | 76.2                            | 4933                | 91.5                            | 5920                | 114.4                           | 7400                | 5                    |
| BA 63315            |                         |                      | 315                                | 62.8                     | 78.8                            | 4946                | 94.5                            | 5935                | 118.1                           | 7418                | 5                    |
| BA 63400            |                         |                      | 400                                | 48.5                     | 100.0                           | 4850                | 120.0                           | 5820                | 150.0                           | 7275                | 5                    |



**BR****D****d****L<sub>0</sub>****R****20%**  
LONG LIFE DEFLECTION  
DEFLESSIONE PER  
LUNGA DURATA**25%**  
AVERAGE WORKING DEF.  
DEFLESSIONE MEDIA  
DI LAVORO**30%**  
MAX WORKING DEF.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |     |     |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|-----|-----|
| BR 10025            | <b>10</b>               | <b>5</b>             | 25                                 | 22.1                     | 5.0                             | 111                 | 6.3                             | 139                 | 7.5                             | 166                 | 100                  |     |     |
| BR 10032            |                         |                      | 32                                 | 17.5                     | 6.4                             | 112                 | 8.0                             | 140                 | 9.6                             | 168                 | 100                  |     |     |
| BR 10038            |                         |                      | 38                                 | 17.1                     | 7.6                             | 130                 | 9.5                             | 163                 | 11.4                            | 195                 | 100                  |     |     |
| BR 10045            |                         |                      | 44                                 | 15.0                     | 8.8                             | 132                 | 11.0                            | 165                 | 13.2                            | 198                 | 100                  |     |     |
| BR 10050            |                         |                      | 51                                 | 12.8                     | 10.2                            | 131                 | 12.8                            | 164                 | 15.3                            | 196                 | 100                  |     |     |
| BR 10065            |                         |                      | 64                                 | 10.7                     | 12.8                            | 137                 | 16.0                            | 171                 | 19.2                            | 205                 | 50                   |     |     |
| BR 10075            |                         |                      | 76                                 | 7.5                      | 15.2                            | 114                 | 19.0                            | 143                 | 22.8                            | 171                 | 50                   |     |     |
| BR 10303            |                         |                      | 305                                | 2.1                      | 61.0                            | 128                 | 76.3                            | 160                 | 91.5                            | 192                 | 20                   |     |     |
| BR 13025            |                         |                      | <b>12.5</b>                        | <b>6.3</b>               | 25                              | 42.1                | 5.0                             | 211                 | 6.3                             | 265                 | 7.5                  | 316 | 100 |
| BR 13032            |                         |                      |                                    |                          | 32                              | 33.2                | 6.4                             | 213                 | 8.0                             | 266                 | 9.6                  | 319 | 100 |
| BR 13038            | 38                      | 29.3                 |                                    |                          | 7.6                             | 223                 | 9.5                             | 278                 | 11.4                            | 334                 | 100                  |     |     |
| BR 13045            | 44                      | 24.6                 |                                    |                          | 8.8                             | 217                 | 11.0                            | 271                 | 13.2                            | 325                 | 100                  |     |     |
| BR 13050            | 51                      | 19.6                 |                                    |                          | 10.2                            | 200                 | 12.8                            | 251                 | 15.3                            | 300                 | 100                  |     |     |
| BR 13065            | 64                      | 15.0                 |                                    |                          | 12.8                            | 192                 | 16.0                            | 240                 | 19.2                            | 288                 | 50                   |     |     |
| BR 13075            | 76                      | 13.2                 |                                    |                          | 15.2                            | 201                 | 19.0                            | 251                 | 22.8                            | 301                 | 50                   |     |     |
| BR 13090            | 89                      | 11.4                 |                                    |                          | 17.8                            | 203                 | 22.3                            | 254                 | 26.7                            | 304                 | 50                   |     |     |
| BR 13101            | 102                     | 9.4                  |                                    |                          | 20.4                            | 192                 | 25.5                            | 240                 | 30.6                            | 287                 | 50                   |     |     |
| BR 13303            | 305                     | 2.8                  |                                    |                          | 61.0                            | 171                 | 76.3                            | 214                 | 91.5                            | 256                 | 20                   |     |     |
| BR 16025            | <b>16</b>               | <b>8</b>             | 25                                 | 75.7                     | 5.0                             | 379                 | 6.3                             | 477                 | 7.5                             | 568                 | 100                  |     |     |
| BR 16032            |                         |                      | 32                                 | 52.8                     | 6.4                             | 338                 | 8.0                             | 422                 | 9.6                             | 507                 | 100                  |     |     |
| BR 16038            |                         |                      | 38                                 | 48.5                     | 7.6                             | 369                 | 9.5                             | 461                 | 11.4                            | 553                 | 100                  |     |     |
| BR 16045            |                         |                      | 44                                 | 42.8                     | 8.8                             | 377                 | 11.0                            | 471                 | 13.2                            | 565                 | 100                  |     |     |
| BR 16050            |                         |                      | 51                                 | 37.1                     | 10.2                            | 378                 | 12.8                            | 475                 | 15.3                            | 568                 | 100                  |     |     |
| BR 16065            |                         |                      | 64                                 | 30.3                     | 12.8                            | 388                 | 16.0                            | 485                 | 19.2                            | 582                 | 50                   |     |     |
| BR 16075            |                         |                      | 76                                 | 25.8                     | 15.2                            | 392                 | 19.0                            | 490                 | 22.8                            | 588                 | 50                   |     |     |
| BR 16090            |                         |                      | 89                                 | 21.7                     | 17.8                            | 386                 | 22.3                            | 484                 | 26.7                            | 579                 | 50                   |     |     |
| BR 16101            |                         |                      | 102                                | 19.3                     | 20.4                            | 394                 | 25.5                            | 492                 | 30.6                            | 591                 | 50                   |     |     |
| BR 16115            |                         |                      | 115                                | 17.0                     | 23.0                            | 391                 | 28.8                            | 490                 | 34.5                            | 587                 | 50                   |     |     |
| BR 16303            | 305                     | 7.1                  | 61.0                               | 433                      | 76.3                            | 542                 | 91.5                            | 650                 | 20                              |                     |                      |     |     |
| BR 19025            | <b>20</b>               | <b>10</b>            | 25                                 | 216.0                    | 5.0                             | 1080                | 6.3                             | 1361                | 7.5                             | 1620                | 100                  |     |     |
| BR 19032            |                         |                      | 32                                 | 168.0                    | 6.4                             | 1075                | 8.0                             | 1344                | 9.6                             | 1613                | 100                  |     |     |
| BR 19038            |                         |                      | 38                                 | 129.0                    | 7.6                             | 980                 | 9.5                             | 1226                | 11.4                            | 1471                | 100                  |     |     |
| BR 19045            |                         |                      | 44                                 | 112.0                    | 8.8                             | 986                 | 11.0                            | 1232                | 13.2                            | 1478                | 100                  |     |     |
| BR 19050            |                         |                      | 51                                 | 94.0                     | 10.2                            | 959                 | 12.8                            | 1203                | 15.3                            | 1438                | 100                  |     |     |
| BR 19065            |                         |                      | 64                                 | 72.1                     | 12.8                            | 923                 | 16.0                            | 1154                | 19.2                            | 1384                | 50                   |     |     |
| BR 19075            |                         |                      | 76                                 | 59.7                     | 15.2                            | 907                 | 19.0                            | 1134                | 22.8                            | 1361                | 50                   |     |     |
| BR 19090            |                         |                      | 89                                 | 50.5                     | 17.8                            | 899                 | 22.3                            | 1126                | 26.7                            | 1348                | 50                   |     |     |
| BR 19101            |                         |                      | 102                                | 44.2                     | 20.4                            | 902                 | 25.5                            | 1127                | 30.6                            | 1353                | 50                   |     |     |
| BR 19115            |                         |                      | 115                                | 38.4                     | 23.0                            | 883                 | 28.8                            | 1106                | 34.5                            | 1325                | 20                   |     |     |
| BR 19126            | 127                     | 34.1                 | 25.4                               | 866                      | 31.8                            | 1084                | 38.1                            | 1299                | 20                              |                     |                      |     |     |
| BR 19140            | 139                     | 31.0                 | 27.8                               | 862                      | 35.0                            | 1085                | 41.7                            | 1293                | 20                              |                     |                      |     |     |
| BR 19151            | 152                     | 28.2                 | 30.4                               | 857                      | 38.0                            | 1072                | 45.6                            | 1286                | 20                              |                     |                      |     |     |
| BR 19303            | 305                     | 15.0                 | 61.0                               | 915                      | 76.3                            | 1145                | 91.5                            | 1373                | 10                              |                     |                      |     |     |
| BR 26025            | <b>25</b>               | <b>12.5</b>          | 25                                 | 375.0                    | 5.0                             | 1875                | 6.3                             | 2363                | 7.5                             | 2813                | 100                  |     |     |
| BR 26032            |                         |                      | 32                                 | 297.0                    | 6.4                             | 1901                | 8.0                             | 2376                | 9.6                             | 2851                | 50                   |     |     |
| BR 26038            |                         |                      | 38                                 | 219.0                    | 7.6                             | 1664                | 9.5                             | 2081                | 11.4                            | 2497                | 50                   |     |     |
| BR 26045            |                         |                      | 44                                 | 187.0                    | 8.8                             | 1646                | 11.0                            | 2057                | 13.2                            | 2468                | 50                   |     |     |
| BR 26050            |                         |                      | 51                                 | 156.0                    | 10.2                            | 1591                | 12.8                            | 1997                | 15.3                            | 2387                | 50                   |     |     |
| BR 26065            |                         |                      | 64                                 | 123.0                    | 12.8                            | 1574                | 16.0                            | 1968                | 19.2                            | 2362                | 50                   |     |     |
| BR 26075            |                         |                      | 76                                 | 99.0                     | 15.2                            | 1505                | 19.0                            | 1881                | 22.8                            | 2257                | 20                   |     |     |
| BR 26090            |                         |                      | 89                                 | 84.0                     | 17.8                            | 1495                | 22.3                            | 1873                | 26.7                            | 2243                | 20                   |     |     |
| BR 26101            |                         |                      | 102                                | 73.0                     | 20.4                            | 1489                | 25.5                            | 1862                | 30.6                            | 2234                | 20                   |     |     |
| BR 26115            |                         |                      | 115                                | 65.0                     | 23.0                            | 1495                | 28.8                            | 1872                | 34.5                            | 2243                | 20                   |     |     |
| BR 26126            | 127                     | 57.7                 | 25.4                               | 1466                     | 31.8                            | 1835                | 38.1                            | 2198                | 10                              |                     |                      |     |     |
| BR 26140            | 139                     | 52.7                 | 27.8                               | 1465                     | 35.0                            | 1845                | 41.7                            | 2198                | 10                              |                     |                      |     |     |
| BR 26151            | 152                     | 47.8                 | 30.4                               | 1453                     | 38.0                            | 1816                | 45.6                            | 2180                | 10                              |                     |                      |     |     |
| BR 26176            | 178                     | 41.0                 | 35.6                               | 1460                     | 44.5                            | 1825                | 53.4                            | 2189                | 10                              |                     |                      |     |     |
| BR 26202            | 203                     | 35.8                 | 40.6                               | 1454                     | 50.8                            | 1819                | 60.9                            | 2180                | 10                              |                     |                      |     |     |
| BR 26303            | 305                     | 22.9                 | 61.0                               | 1397                     | 76.3                            | 1747                | 91.5                            | 2095                | 5                               |                     |                      |     |     |

**BR**  
**HEAVY LOAD / CARICO FORTE**



**20%**  
LONG LIFE DEFECTION  
DEFLESSIONE PER  
LUNGA DURATA



**25%**  
AVERAGE WORKING DEFL.  
DEFLESSIONE MEDIA  
DI LAVORO



**30%**  
MAX WORKING DEFL.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|
| BR 32038            | 32                      | 16                   | 38                                 | 388.0                    | 7.6                             | 2949                | 9.5                             | 3686                | 11.4                            | 4423                | 20                   |
| BR 32045            |                         |                      | 44                                 | 324.0                    | 8.8                             | 2851                | 11.0                            | 3564                | 13.2                            | 4277                | 20                   |
| BR 32050            |                         |                      | 51                                 | 272.0                    | 10.2                            | 2774                | 12.8                            | 3482                | 15.3                            | 4162                | 20                   |
| BR 32065            |                         |                      | 64                                 | 212.0                    | 12.8                            | 2714                | 16.0                            | 3392                | 19.2                            | 4070                | 20                   |
| BR 32075            |                         |                      | 76                                 | 172.0                    | 15.2                            | 2614                | 19.0                            | 3268                | 22.8                            | 3922                | 20                   |
| BR 32090            |                         |                      | 89                                 | 141.0                    | 17.8                            | 2510                | 22.3                            | 3144                | 26.7                            | 3765                | 20                   |
| BR 32101            |                         |                      | 102                                | 122.0                    | 20.4                            | 2489                | 25.5                            | 3111                | 30.6                            | 3733                | 20                   |
| BR 32115            |                         |                      | 115                                | 107.0                    | 23.0                            | 2461                | 28.8                            | 3082                | 34.5                            | 3692                | 10                   |
| BR 32126            |                         |                      | 127                                | 93.0                     | 25.4                            | 2362                | 31.8                            | 2957                | 38.1                            | 3543                | 10                   |
| BR 32140            |                         |                      | 139                                | 86.0                     | 27.8                            | 2391                | 35.0                            | 3010                | 41.7                            | 3586                | 10                   |
| BR 32151            |                         |                      | 152                                | 78.0                     | 30.4                            | 2371                | 38.0                            | 2964                | 45.6                            | 3557                | 10                   |
| BR 32176            |                         |                      | 178                                | 67.2                     | 35.6                            | 2392                | 44.5                            | 2990                | 53.4                            | 3589                | 10                   |
| BR 32202            |                         |                      | 203                                | 59.1                     | 40.6                            | 2400                | 50.8                            | 3002                | 60.9                            | 3599                | 10                   |
| BR 32252            |                         |                      | 254                                | 46.4                     | 50.8                            | 2357                | 63.5                            | 2946                | 76.2                            | 3536                | 5                    |
| BR 32303            |                         |                      | 305                                | 38.0                     | 61.0                            | 2318                | 76.3                            | 2899                | 91.5                            | 3477                | 5                    |
| BR 38050            |                         |                      | 40                                 | 20                       | 51                              | 350.0               | 10.2                            | 3570                | 12.8                            | 4480                | 15.3                 |
| BR 38065            | 64                      | 269.0                |                                    |                          | 12.8                            | 3443                | 16.0                            | 4304                | 19.2                            | 5165                | 20                   |
| BR 38075            | 76                      | 219.0                |                                    |                          | 15.2                            | 3329                | 19.0                            | 4161                | 22.8                            | 4993                | 20                   |
| BR 38090            | 89                      | 190.0                |                                    |                          | 17.8                            | 3382                | 22.3                            | 4237                | 26.7                            | 5073                | 20                   |
| BR 38101            | 102                     | 163.0                |                                    |                          | 20.4                            | 3325                | 25.5                            | 4157                | 30.6                            | 4988                | 20                   |
| BR 38115            | 115                     | 142.0                |                                    |                          | 23.0                            | 3266                | 28.8                            | 4090                | 34.5                            | 4899                | 10                   |
| BR 38126            | 127                     | 128.0                |                                    |                          | 25.4                            | 3251                | 31.8                            | 4070                | 38.1                            | 4877                | 10                   |
| BR 38140            | 139                     | 115.0                |                                    |                          | 27.8                            | 3197                | 35.0                            | 4025                | 41.7                            | 4796                | 10                   |
| BR 38151            | 152                     | 105.0                |                                    |                          | 30.4                            | 3192                | 38.0                            | 3990                | 45.6                            | 4788                | 10                   |
| BR 38176            | 178                     | 89.0                 |                                    |                          | 35.6                            | 3168                | 44.5                            | 3961                | 53.4                            | 4753                | 10                   |
| BR 38202            | 203                     | 77.0                 |                                    |                          | 40.6                            | 3126                | 50.8                            | 3912                | 60.9                            | 4689                | 5                    |
| BR 38252            | 254                     | 61.0                 |                                    |                          | 50.8                            | 3099                | 63.5                            | 3874                | 76.2                            | 4648                | 5                    |
| BR 38303            | 305                     | 51.0                 | 61.0                               | 3111                     | 76.3                            | 3891                | 91.5                            | 4667                | 5                               |                     |                      |
| BR 51065            | 50                      | 25                   | 64                                 | 413.0                    | 12.8                            | 5286                | 16.0                            | 6608                | 19.2                            | 7930                | 20                   |
| BR 51075            |                         |                      | 76                                 | 339.0                    | 15.2                            | 5153                | 19.0                            | 6441                | 22.8                            | 7729                | 20                   |
| BR 51090            |                         |                      | 89                                 | 288.0                    | 17.8                            | 5126                | 22.3                            | 6422                | 26.7                            | 7690                | 10                   |
| BR 51101            |                         |                      | 102                                | 245.0                    | 20.4                            | 4998                | 25.5                            | 6248                | 30.6                            | 7497                | 10                   |
| BR 51115            |                         |                      | 115                                | 215.0                    | 23.0                            | 4945                | 28.8                            | 6192                | 34.5                            | 7418                | 10                   |
| BR 51126            |                         |                      | 127                                | 192.0                    | 25.4                            | 4877                | 31.8                            | 6106                | 38.1                            | 7315                | 10                   |
| BR 51140            |                         |                      | 139                                | 168.0                    | 27.8                            | 4670                | 35.0                            | 5880                | 41.7                            | 7006                | 10                   |
| BR 51151            |                         |                      | 152                                | 154.0                    | 30.4                            | 4682                | 38.0                            | 5852                | 45.6                            | 7022                | 10                   |
| BR 51176            |                         |                      | 178                                | 134.0                    | 35.6                            | 4770                | 44.5                            | 5963                | 53.4                            | 7156                | 5                    |
| BR 51202            |                         |                      | 203                                | 117.0                    | 40.6                            | 4750                | 50.8                            | 5944                | 60.9                            | 7125                | 5                    |
| BR 51252            |                         |                      | 254                                | 89.0                     | 50.8                            | 4521                | 63.5                            | 5652                | 76.2                            | 6782                | 5                    |
| BR 51303            |                         |                      | 305                                | 73.0                     | 61.0                            | 4453                | 76.3                            | 5570                | 91.5                            | 6680                | 5                    |
| BR 63075            | 63                      | 38                   | 76                                 | 630.0                    | 15.2                            | 9576                | 19.0                            | 11970               | 22.8                            | 14364               | 20                   |
| BR 63090            |                         |                      | 89                                 | 485.0                    | 17.8                            | 8633                | 22.3                            | 10816               | 26.7                            | 12950               | 10                   |
| BR 63101            |                         |                      | 102                                | 434.0                    | 20.4                            | 8854                | 25.5                            | 11067               | 30.6                            | 13280               | 10                   |
| BR 63115            |                         |                      | 115                                | 384.0                    | 23.0                            | 8832                | 28.8                            | 11059               | 34.5                            | 13248               | 10                   |
| BR 63126            |                         |                      | 127                                | 349.0                    | 25.4                            | 8865                | 31.8                            | 11098               | 38.1                            | 13297               | 10                   |
| BR 63151            |                         |                      | 152                                | 276.0                    | 30.4                            | 8390                | 38.0                            | 10488               | 45.6                            | 12586               | 10                   |
| BR 63176            |                         |                      | 178                                | 237.0                    | 35.6                            | 8437                | 44.5                            | 10547               | 53.4                            | 12656               | 5                    |
| BR 63202            |                         |                      | 203                                | 210.0                    | 40.6                            | 8526                | 50.8                            | 10668               | 60.9                            | 12789               | 5                    |
| BR 63252            |                         |                      | 254                                | 165.0                    | 50.8                            | 8382                | 63.5                            | 10478               | 76.2                            | 12573               | 5                    |
| BR 63303            |                         |                      | 305                                | 134.0                    | 61.0                            | 8174                | 76.3                            | 10224               | 91.5                            | 12261               | 5                    |



**BY****D****d****L<sub>0</sub>****R****17%**  
LONG LIFE DEFLECTION  
DEFLESSIONE PER  
LUNGA DURATA**22.5%**  
AVERAGE WORKING DEFLECTION  
DEFLESSIONE MEDIA  
DI LAVORO**25%**  
MAX WORKING DEFLECTION  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|
| BY 10025            | <b>10</b>               | <b>5</b>             | 25                                 | 36.8                     | 4.3                             | 158                 | 5.6                             | 206                 | 6.3                             | 232                 | 100                  |
| BY 10032            |                         |                      | 32                                 | 27.9                     | 5.4                             | 152                 | 7.2                             | 201                 | 8.0                             | 223                 | 100                  |
| BY 10038            |                         |                      | 38                                 | 23.7                     | 6.5                             | 153                 | 8.6                             | 204                 | 9.5                             | 225                 | 100                  |
| BY 10045            |                         |                      | 44                                 | 19.2                     | 7.5                             | 144                 | 9.9                             | 190                 | 11.0                            | 211                 | 100                  |
| BY 10050            |                         |                      | 51                                 | 16.5                     | 8.7                             | 143                 | 11.5                            | 190                 | 12.75                           | 211                 | 100                  |
| BY 10065            |                         |                      | 64                                 | 13.2                     | 10.9                            | 144                 | 14.4                            | 190                 | 16.0                            | 211                 | 50                   |
| BY 10075            |                         |                      | 76                                 | 10.9                     | 12.9                            | 141                 | 17.1                            | 186                 | 19.0                            | 207                 | 50                   |
| BY 10303            |                         |                      | 305                                | 2.6                      | 51.9                            | 135                 | 68.6                            | 178                 | 76.25                           | 198                 | 20                   |
| BY 13025            | <b>12.5</b>             | <b>6.3</b>           | 25                                 | 58.5                     | 4.3                             | 249                 | 5.6                             | 328                 | 6.3                             | 366                 | 100                  |
| BY 13032            |                         |                      | 32                                 | 43.9                     | 5.4                             | 239                 | 7.2                             | 316                 | 8.0                             | 351                 | 100                  |
| BY 13038            |                         |                      | 38                                 | 36.0                     | 6.5                             | 233                 | 8.6                             | 310                 | 9.5                             | 342                 | 100                  |
| BY 13045            |                         |                      | 44                                 | 30.3                     | 7.5                             | 227                 | 9.9                             | 300                 | 11.0                            | 333                 | 100                  |
| BY 13050            |                         |                      | 51                                 | 26.2                     | 8.7                             | 227                 | 11.5                            | 301                 | 12.8                            | 334                 | 100                  |
| BY 13065            |                         |                      | 64                                 | 21.2                     | 10.9                            | 231                 | 14.4                            | 305                 | 16.0                            | 339                 | 50                   |
| BY 13075            |                         |                      | 76                                 | 17.1                     | 12.9                            | 221                 | 17.1                            | 292                 | 19.0                            | 325                 | 50                   |
| BY 13090            |                         |                      | 89                                 | 14.5                     | 15.1                            | 219                 | 20.0                            | 290                 | 22.2                            | 323                 | 50                   |
| BY 13101            | 102                     | 12.5                 | 17.3                               | 217                      | 23.0                            | 288                 | 25.5                            | 319                 | 50                              |                     |                      |
| BY 13303            | 305                     | 4.3                  | 51.9                               | 223                      | 68.6                            | 295                 | 76.2                            | 328                 | 20                              |                     |                      |
| BY 16025            | <b>16</b>               | <b>8</b>             | 25                                 | 118.0                    | 4.3                             | 502                 | 5.6                             | 661                 | 6.3                             | 738                 | 100                  |
| BY 16032            |                         |                      | 32                                 | 89.0                     | 5.4                             | 484                 | 7.2                             | 641                 | 8.0                             | 712                 | 100                  |
| BY 16038            |                         |                      | 38                                 | 72.1                     | 6.5                             | 466                 | 8.6                             | 620                 | 9.5                             | 685                 | 100                  |
| BY 16045            |                         |                      | 44                                 | 60.9                     | 7.5                             | 456                 | 9.9                             | 603                 | 11.0                            | 670                 | 100                  |
| BY 16050            |                         |                      | 51                                 | 52.3                     | 8.7                             | 453                 | 11.5                            | 601                 | 12.8                            | 667                 | 100                  |
| BY 16065            |                         |                      | 64                                 | 41.2                     | 10.9                            | 448                 | 14.4                            | 593                 | 16.0                            | 659                 | 50                   |
| BY 16075            |                         |                      | 76                                 | 34.1                     | 12.9                            | 441                 | 17.1                            | 583                 | 19.0                            | 648                 | 50                   |
| BY 16090            |                         |                      | 89                                 | 29.5                     | 15.1                            | 446                 | 20.0                            | 590                 | 22.2                            | 656                 | 50                   |
| BY 16101            | 102                     | 25.6                 | 17.3                               | 444                      | 23.0                            | 589                 | 25.5                            | 653                 | 50                              |                     |                      |
| BY 16115            | 115                     | 22.8                 | 19.6                               | 446                      | 25.9                            | 591                 | 28.8                            | 656                 | 50                              |                     |                      |
| BY 16303            | 305                     | 8.4                  | 51.9                               | 436                      | 68.6                            | 576                 | 76.2                            | 641                 | 20                              |                     |                      |
| BY 19025            | <b>20</b>               | <b>10</b>            | 25                                 | 293.0                    | 4.3                             | 1245                | 5.6                             | 1641                | 6.3                             | 1831                | 100                  |
| BY 19032            |                         |                      | 32                                 | 224.0                    | 5.4                             | 1219                | 7.2                             | 1613                | 8.0                             | 1792                | 100                  |
| BY 19038            |                         |                      | 38                                 | 177.0                    | 6.5                             | 1143                | 8.6                             | 1522                | 9.5                             | 1682                | 100                  |
| BY 19045            |                         |                      | 44                                 | 149.0                    | 7.5                             | 1115                | 9.9                             | 1475                | 11.0                            | 1639                | 100                  |
| BY 19050            |                         |                      | 51                                 | 128.0                    | 8.7                             | 1110                | 11.5                            | 1472                | 12.8                            | 1632                | 100                  |
| BY 19065            |                         |                      | 64                                 | 99.0                     | 10.9                            | 1077                | 14.4                            | 1426                | 16.0                            | 1584                | 50                   |
| BY 19075            |                         |                      | 76                                 | 81.7                     | 12.9                            | 1056                | 17.1                            | 1397                | 19.0                            | 1552                | 50                   |
| BY 19090            |                         |                      | 89                                 | 69.5                     | 15.1                            | 1052                | 20.0                            | 1390                | 22.2                            | 1546                | 50                   |
| BY 19101            | 102                     | 60.6                 | 17.3                               | 1051                     | 23.0                            | 1394                | 25.5                            | 1545                | 50                              |                     |                      |
| BY 19115            | 115                     | 53.0                 | 19.6                               | 1036                     | 25.9                            | 1373                | 28.8                            | 1524                | 20                              |                     |                      |
| BY 19126            | 127                     | 47.5                 | 21.6                               | 1026                     | 28.6                            | 1359                | 31.8                            | 1508                | 20                              |                     |                      |
| BY 19140            | 139                     | 43.0                 | 23.6                               | 1016                     | 31.3                            | 1346                | 34.8                            | 1494                | 20                              |                     |                      |
| BY 19151            | 152                     | 39.0                 | 25.8                               | 1008                     | 34.2                            | 1334                | 38.0                            | 1482                | 20                              |                     |                      |
| BY 19303            | 305                     | 21.2                 | 51.9                               | 1099                     | 68.6                            | 1454                | 76.2                            | 1617                | 10                              |                     |                      |
| BY 26025            | <b>25</b>               | <b>12.5</b>          | 25                                 | 488.0                    | 4.3                             | 2098                | 5.6                             | 2733                | 6.3                             | 3074                | 100                  |
| BY 26032            |                         |                      | 32                                 | 374.4                    | 5.4                             | 2037                | 7.2                             | 2696                | 8.0                             | 2995                | 50                   |
| BY 26038            |                         |                      | 38                                 | 346.0                    | 6.5                             | 2235                | 8.6                             | 2976                | 9.5                             | 3287                | 50                   |
| BY 26045            |                         |                      | 44                                 | 244.0                    | 7.5                             | 1825                | 9.9                             | 2416                | 11.0                            | 2684                | 50                   |
| BY 26050            |                         |                      | 51                                 | 207.5                    | 8.7                             | 1799                | 11.5                            | 2386                | 12.8                            | 2646                | 50                   |
| BY 26065            |                         |                      | 64                                 | 161.0                    | 10.9                            | 1752                | 14.4                            | 2318                | 16.0                            | 2576                | 50                   |
| BY 26075            |                         |                      | 76                                 | 130.8                    | 12.9                            | 1690                | 17.1                            | 2237                | 19.0                            | 2485                | 20                   |
| BY 26090            |                         |                      | 89                                 | 110.5                    | 15.1                            | 1672                | 20.0                            | 2210                | 22.2                            | 2459                | 20                   |
| BY 26101            | 102                     | 96.3                 | 17.3                               | 1670                     | 23.0                            | 2215                | 25.5                            | 2456                | 20                              |                     |                      |
| BY 26115            | 115                     | 85.7                 | 19.6                               | 1675                     | 25.9                            | 2220                | 28.8                            | 2464                | 20                              |                     |                      |
| BY 26126            | 127                     | 76.3                 | 21.6                               | 1647                     | 28.6                            | 2182                | 31.8                            | 2423                | 10                              |                     |                      |
| BY 26140            | 139                     | 69.5                 | 23.6                               | 1642                     | 31.3                            | 2175                | 34.8                            | 2415                | 10                              |                     |                      |
| BY 26151            | 152                     | 63.5                 | 25.8                               | 1641                     | 34.2                            | 2172                | 38.0                            | 2413                | 10                              |                     |                      |
| BY 26176            | 178                     | 53.9                 | 30.3                               | 1631                     | 40.1                            | 2161                | 44.5                            | 2399                | 10                              |                     |                      |
| BY 26202            | 203                     | 47.0                 | 34.5                               | 1622                     | 45.7                            | 2148                | 50.8                            | 2385                | 10                              |                     |                      |
| BY 26303            | 305                     | 30.9                 | 51.9                               | 1602                     | 68.6                            | 2120                | 76.2                            | 2356                | 5                               |                     |                      |

EXTRA HEAVY LOAD / CARICO EXTRA FORTE





**17%**  
LONG LIFE DEFECTION  
DEFLESSIONE PER  
LUNGA DURATA



**22.5%**  
AVERAGE WORKING DEFL.  
DEFLESSIONE MEDIA  
DI LAVORO



**25%**  
MAX WORKING DEFL.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |       |    |
|---------------------|-------------------------|----------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|-------|----|
| BY 32038            | <b>32</b>               | <b>16</b>            | 38                                 | 528.2                    | 6.5                             | 3412                | 8.6                             | 4543                | 9.5                             | 5018                | 20                   |       |    |
| BY 32045            |                         |                      | 44                                 | 424.4                    | 7.5                             | 3175                | 9.9                             | 4202                | 11.0                            | 4668                | 20                   |       |    |
| BY 32050            |                         |                      | 51                                 | 353.0                    | 8.7                             | 3061                | 11.5                            | 4060                | 12.8                            | 4501                | 20                   |       |    |
| BY 32065            |                         |                      | 64                                 | 269.2                    | 10.9                            | 2929                | 14.4                            | 3877                | 16.0                            | 4307                | 20                   |       |    |
| BY 32075            |                         |                      | 76                                 | 218.5                    | 12.9                            | 2823                | 17.1                            | 3736                | 19.0                            | 4152                | 20                   |       |    |
| BY 32090            |                         |                      | 89                                 | 180.3                    | 15.1                            | 2728                | 20.0                            | 3606                | 22.2                            | 4012                | 20                   |       |    |
| BY 32101            |                         |                      | 102                                | 155.0                    | 17.3                            | 2688                | 23.0                            | 3565                | 25.5                            | 3953                | 20                   |       |    |
| BY 32115            |                         |                      | 115                                | 140.0                    | 19.6                            | 2737                | 25.9                            | 3626                | 28.8                            | 4025                | 10                   |       |    |
| BY 32126            |                         |                      | 127                                | 124.0                    | 21.6                            | 2677                | 28.6                            | 3546                | 31.8                            | 3937                | 10                   |       |    |
| BY 32140            |                         |                      | 139                                | 112.0                    | 23.6                            | 2647                | 31.3                            | 3506                | 34.8                            | 3892                | 10                   |       |    |
| BY 32151            |                         |                      | 152                                | 102.0                    | 25.8                            | 2636                | 34.2                            | 3488                | 38.0                            | 3876                | 10                   |       |    |
| BY 32176            |                         |                      | 178                                | 88.2                     | 30.3                            | 2669                | 40.1                            | 3537                | 44.5                            | 3925                | 10                   |       |    |
| BY 32202            |                         |                      | 203                                | 76.0                     | 34.5                            | 2623                | 45.7                            | 3473                | 50.8                            | 3857                | 10                   |       |    |
| BY 32252            |                         |                      | 254                                | 60.8                     | 43.2                            | 2625                | 57.2                            | 3478                | 63.5                            | 3861                | 5                    |       |    |
| BY 32303            |                         |                      | 305                                | 49.0                     | 51.9                            | 2541                | 68.6                            | 3361                | 76.2                            | 3736                | 5                    |       |    |
| BY 38050            |                         |                      | <b>40</b>                          | <b>20</b>                | 51                              | 628.0               | 8.7                             | 5445                | 11.5                            | 7222                | 12.75                | 8007  | 20 |
| BY 38065            | 64                      | 487.0                |                                    |                          | 10.9                            | 5299                | 14.4                            | 7013                | 16.0                            | 7792                | 20                   |       |    |
| BY 38075            | 76                      | 379.0                |                                    |                          | 12.9                            | 4897                | 17.1                            | 6481                | 19.0                            | 7201                | 20                   |       |    |
| BY 38090            | 89                      | 321.0                |                                    |                          | 15.1                            | 4857                | 20.0                            | 6420                | 22.25                           | 7142                | 20                   |       |    |
| BY 38101            | 102                     | 281.0                |                                    |                          | 17.3                            | 4873                | 23.0                            | 6463                | 25.5                            | 7166                | 20                   |       |    |
| BY 38115            | 115                     | 245.0                |                                    |                          | 19.6                            | 4790                | 25.9                            | 6346                | 28.75                           | 7044                | 10                   |       |    |
| BY 38126            | 127                     | 221.0                |                                    |                          | 21.6                            | 4771                | 28.6                            | 6321                | 31.75                           | 7017                | 10                   |       |    |
| BY 38140            | 139                     | 195.0                |                                    |                          | 23.6                            | 4608                | 31.3                            | 6104                | 34.75                           | 6776                | 10                   |       |    |
| BY 38151            | 152                     | 168.0                |                                    |                          | 25.8                            | 4341                | 34.2                            | 5746                | 38.0                            | 6384                | 10                   |       |    |
| BY 38176            | 178                     | 150.0                |                                    |                          | 30.3                            | 4545                | 40.1                            | 6015                | 44.5                            | 6675                | 10                   |       |    |
| BY 38202            | 203                     | 132.0                |                                    |                          | 34.5                            | 4555                | 45.7                            | 6032                | 50.75                           | 6699                | 5                    |       |    |
| BY 38252            | 254                     | 107.0                |                                    |                          | 43.2                            | 4620                | 57.2                            | 6120                | 63.5                            | 6794,5              | 5                    |       |    |
| BY 38303            | 305                     | 87.8                 |                                    |                          | 51.9                            | 4552                | 68.6                            | 6023                | 76.25                           | 6695                | 5                    |       |    |
| BY 51065            | <b>50</b>               | <b>25</b>            |                                    |                          | 64                              | 709.0               | 10.9                            | 7714                | 14.4                            | 10210               | 16.0                 | 11344 | 20 |
| BY 51075            |                         |                      |                                    |                          | 76                              | 572.0               | 12.9                            | 7390                | 17.1                            | 9781                | 19.0                 | 10868 | 20 |
| BY 51090            |                         |                      |                                    |                          | 89                              | 475.0               | 15.1                            | 7187                | 20.0                            | 9500                | 22.2                 | 10569 | 10 |
| BY 51101            |                         |                      | 102                                | 405.0                    | 17.3                            | 7023                | 23.0                            | 9315                | 25.5                            | 10328               | 10                   |       |    |
| BY 51115            |                         |                      | 115                                | 352.0                    | 19.6                            | 6882                | 25.9                            | 9117                | 28.8                            | 10120               | 10                   |       |    |
| BY 51126            |                         |                      | 127                                | 316.0                    | 21.6                            | 6822                | 28.6                            | 9038                | 31.8                            | 10033               | 10                   |       |    |
| BY 51140            |                         |                      | 139                                | 289.0                    | 23.6                            | 6829                | 31.3                            | 9046                | 34.8                            | 10043               | 10                   |       |    |
| BY 51151            |                         |                      | 152                                | 239.0                    | 25.8                            | 6176                | 34.2                            | 8174                | 38.0                            | 9082                | 10                   |       |    |
| BY 51176            |                         |                      | 178                                | 216.0                    | 30.3                            | 6536                | 40.1                            | 8662                | 44.5                            | 9612                | 5                    |       |    |
| BY 51202            |                         |                      | 203                                | 187.0                    | 34.5                            | 6453                | 45.7                            | 8546                | 50.8                            | 9490                | 5                    |       |    |
| BY 51252            |                         |                      | 254                                | 153.0                    | 43.2                            | 6607                | 57.2                            | 8752                | 63.5                            | 9716                | 5                    |       |    |
| BY 51303            |                         |                      | 305                                | 127.0                    | 51.9                            | 6585                | 68.6                            | 8712                | 76.2                            | 9684                | 5                    |       |    |
| BY 63075            |                         |                      | <b>63</b>                          | <b>38</b>                | 76                              | 842.0               | 12.9                            | 10879               | 17.1                            | 14398               | 19.0                 | 15998 | 20 |
| BY 63090            |                         |                      |                                    |                          | 89                              | 726.0               | 15.1                            | 10984               | 20.0                            | 14520               | 22.3                 | 16154 | 10 |
| BY 63101            |                         |                      |                                    |                          | 102                             | 656.0               | 17.3                            | 11375               | 23.0                            | 15088               | 25.5                 | 16728 | 10 |
| BY 63115            |                         |                      |                                    |                          | 115                             | 534.0               | 19.6                            | 10440               | 25.9                            | 13831               | 28.8                 | 15353 | 10 |
| BY 63126            | 127                     | 480.0                |                                    |                          | 21.6                            | 10363               | 28.6                            | 13728               | 31.8                            | 15240               | 10                   |       |    |
| BY 63151            | 152                     | 396.0                |                                    |                          | 25.8                            | 10233               | 34.2                            | 13543               | 38.0                            | 15048               | 10                   |       |    |
| BY 63176            | 178                     | 335.0                |                                    |                          | 30.3                            | 10137               | 40.1                            | 13434               | 44.5                            | 14908               | 5                    |       |    |
| BY 63202            | 203                     | 297.0                |                                    |                          | 34.5                            | 10250               | 45.7                            | 13573               | 50.8                            | 15073               | 5                    |       |    |
| BY 63252            | 254                     | 235.0                |                                    |                          | 43.2                            | 10147               | 57.2                            | 13442               | 63.5                            | 14923               | 5                    |       |    |
| BY 63303            | 305                     | 194.0                |                                    |                          | 51.9                            | 10059               | 68.6                            | 13308               | 76.2                            | 14793               | 5                    |       |    |



**BO****D****d****L<sub>0</sub>****R****10%**  
LONG LIFE DEFLECTION  
DEFLESSIONE PER  
LUNGA DURATA**13.5%**  
AVERAGE WORKING DEF.  
DEFLESSIONE MEDIA  
DI LAVORO**15%**  
MAX WORKING DEF.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm                   | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm         | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |      |
|---------------------|---|----------------------|--|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|------|
| BO 10025            | <b>10</b>                                 | <b>5</b>             | 25   | 167                      | 2.5                             | 418                 | 3.3                             | 551                 | 3.8                             | 626                 | 100                  |      |
| BO 10032            |   |                      | 32   | 130                      | 3.2                             | 416                 | 4.3                             | 559                 | 4.8                             | 624                 | 100                  |      |
| BO 10038            |   |                      | 38   | 105                      | 3.8                             | 399                 | 5.1                             | 536                 | 5.7                             | 599                 | 100                  |      |
| BO 10044            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>2.2 x 2.7  | 44                       | 86                              | 4.4                 | 378                             | 5.9                 | 507                             | 6.6                 | 568                  | 100  |
| BO 10051            |   |                      |  | 51                       | 79                              | 5.1                 | 403                             | 6.9                 | 545                             | 7.7                 | 604                  | 50   |
| BO 10064            |   |                      |  | 64                       | 62                              | 6.4                 | 397                             | 8.6                 | 533                             | 9.6                 | 595                  | 50   |
| BO 10076            |   |                      |  | 76                       | 51                              | 7.6                 | 388                             | 10.3                | 525                             | 11.4                | 581                  | 50   |
| BO 13025            |   |                      |  | <b>12.5</b>              | <b>6.3</b>                      | 25                  | 288                             | 2.5                 | 720                             | 3.3                 | 950                  | 3.75 |
| BO 13032            | 32  | 216                  | 3.2  |                          |                                 | 691                 | 4.3                             | 929                 | 4.8                             | 1037                | 100                  |      |
| BO 13038            | 38  | 176                  | 3.8  |                          |                                 | 669                 | 5.1                             | 898                 | 5.7                             | 1003                | 100                  |      |
| BO 13044            | 44  | 149                  | 4.4  |                          |                                 | 656                 | 5.9                             | 879                 | 6.6                             | 983                 | 100                  |      |
| BO 13051            | WIRE SECTION<br>SEZIONE FILO<br>2.8 x 3.4 | 51                   | 128  |                          |                                 | 5.1                 | 653                             | 6.9                 | 883                             | 7.7                 | 979                  | 50   |
| BO 13064            |   | 64                   | 100  |                          |                                 | 6.4                 | 640                             | 8.6                 | 860                             | 9.6                 | 960                  | 50   |
| BO 13076            |   | 76                   | 84   |                          |                                 | 7.6                 | 638                             | 10.3                | 865                             | 11.4                | 958                  | 50   |
| BO 13089            |   | 89                   | 71   |                          |                                 | 8.9                 | 632                             | 12.0                | 852                             | 13.4                | 948                  | 50   |
| BO 13102            |   | 102                  | 61   |                          |                                 | 10.2                | 622                             | 13.8                | 842                             | 15.3                | 933                  | 50   |
| BO 16032            | <b>16</b>                                 | <b>8</b>             | 32   | 449                      | 3.2                             | 1437                | 4.3                             | 1931                | 4.8                             | 2155                | 100                  |      |
| BO 16038            |   |                      | 38   | 363                      | 3.8                             | 1379                | 5.1                             | 1851                | 5.7                             | 2069                | 100                  |      |
| BO 16044            |   |                      | 44   | 309                      | 4.4                             | 1360                | 5.9                             | 1823                | 6.6                             | 2039                | 100                  |      |
| BO 16051            |   |                      | 51   | 256                      | 5.1                             | 1306                | 6.9                             | 1766                | 7.7                             | 1958                | 100                  |      |
| BO 16064            |   |                      | 64   | 203                      | 6.4                             | 1299                | 8.6                             | 1746                | 9.6                             | 1949                | 50                   |      |
| BO 16076            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>3.5 x 4.6  | 76                       | 166                             | 7.6                 | 1262                            | 10.3                | 1710                            | 11.4                | 1892                 | 50   |
| BO 16089            |   |                      |  | 89                       | 139                             | 8.9                 | 1237                            | 12.0                | 1668                            | 13.4                | 1856                 | 50   |
| BO 16102            |   |                      |  | 102                      | 114                             | 10.2                | 1163                            | 13.8                | 1573                            | 15.3                | 1744                 | 50   |
| BO 16115            |   |                      |  | 115                      | 105                             | 11.5                | 1208                            | 15.5                | 1628                            | 17.2                | 1811                 | 50   |
| BO 16127            |   |                      |  | 127                      | 94                              | 12.7                | 1194                            | 17.1                | 1607                            | 19.1                | 1791                 | 20   |
| BO 16152            | 152                                       | 69                   |  | 15.2                     | 1049                            | 20.5                | 1415                            | 22.8                | 1573                            | 20                  |                      |      |
| BO 16305            | 305                                       | 37                   | 30.5                                       | 1129                     | 41.2                            | 1524                | 45.8                            | 1693                | 20                              |                     |                      |      |
| BO 19044            | <b>20</b>                                 | <b>10</b>            | 44   | 452                      | 4.4                             | 1989                | 5.9                             | 2667                | 6.6                             | 2983                | 50                   |      |
| BO 19051            |   |                      | 51   | 378                      | 5.1                             | 1928                | 6.9                             | 2608                | 7.7                             | 2892                | 50                   |      |
| BO 19064            |   |                      | 64   | 301                      | 6.4                             | 1926                | 8.6                             | 2589                | 9.6                             | 2890                | 50                   |      |
| BO 19076            |   |                      | 76   | 247                      | 7.6                             | 1877                | 10.3                            | 2544                | 11.4                            | 2816                | 20                   |      |
| BO 19089            |   |                      | 89   | 208                      | 8.9                             | 1851                | 12.0                            | 2496                | 13.4                            | 2777                | 20                   |      |
| BO 19102            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>4.05 x 5.9 | 102                      | 188                             | 10.2                | 1918                            | 13.8                | 2594                            | 15.3                | 2876                 | 20   |
| BO 19115            |   |                      |  | 115                      | 159                             | 11.5                | 1829                            | 15.5                | 2465                            | 17.2                | 2743                 | 20   |
| BO 19127            |   |                      |  | 127                      | 146                             | 12.7                | 1854                            | 17.1                | 2497                            | 19.1                | 2781                 | 20   |
| BO 19152            |   |                      |  | 152                      | 121                             | 15.2                | 1839                            | 20.5                | 2481                            | 22.8                | 2759                 | 20   |
| BO 19305            | 305                                       | 60                   |  | 30.5                     | 1830                            | 41.2                | 2472                            | 45.8                | 2745                            | 10                  |                      |      |
| BO 25044            | <b>25</b>                                 | <b>12.5</b>          | 44   | 1158                     | 4.4                             | 5095                | 5.9                             | 6832                | 6.6                             | 7643                | 50                   |      |
| BO 25051            |   |                      | 51   | 933                      | 5.1                             | 4758                | 6.9                             | 6438                | 7.7                             | 7137                | 50                   |      |
| BO 25064            |   |                      | 64   | 730                      | 6.4                             | 4672                | 8.6                             | 6278                | 9.6                             | 7008                | 50                   |      |
| BO 25076            |   |                      | 76   | 556                      | 7.6                             | 4226                | 10.3                            | 5727                | 11.4                            | 6338                | 20                   |      |
| BO 25089            |   |                      | 89   | 462                      | 8.9                             | 4112                | 12.0                            | 5544                | 13.4                            | 6168                | 20                   |      |
| BO 25102            |   |                      | WIRE SECTION<br>SEZIONE FILO<br>5.7 x 7.4  | 102                      | 390                             | 10.2                | 3978                            | 13.8                | 5382                            | 15.3                | 5967                 | 20   |
| BO 25115            |   |                      |  | 115                      | 360                             | 11.5                | 4140                            | 15.5                | 5580                            | 17.2                | 6210                 | 20   |
| BO 25127            |   |                      |  | 127                      | 326                             | 12.7                | 4140                            | 17.1                | 5575                            | 19.05               | 6210                 | 10   |
| BO 25152            |   |                      |  | 152                      | 255                             | 15.2                | 3876                            | 20.5                | 5228                            | 22.8                | 5814                 | 10   |
| BO 25178            |   |                      |  | 178                      | 230                             | 17.8                | 4094                            | 24.0                | 5520                            | 26.7                | 6141                 | 10   |
| BO 25203            |   |                      |  | 203                      | 202                             | 20.3                | 4101                            | 27.4                | 5535                            | 30.4                | 6151                 | 10   |
| BO 25305            | 305                                       | 136                  |  | 30.5                     | 4148                            | 41.2                | 5600                            | 45.8                | 6222                            | 5                   |                      |      |

SUPER HEAVY LOAD / CARICO SUPER FORTE





**10%**  
LONG LIFE DEFECTION  
DEFLESSIONE PER  
LUNGA DURATA



**13.5%**  
AVERAGE WORKING DEFL.  
DEFLESSIONE MEDIA  
DI LAVORO



**15%**  
MAX WORKING DEFL.  
DEFLESSIONE MAX  
DI LAVORO

| CTLG. NR.<br>CODICE | HOUSING<br>SEDE<br>Ø mm                    | ROD<br>SPINA<br>Ø mm | FREE LENGTH<br>LUNGH. LIBERA<br>mm          | RATE<br>RIGIDITÀ<br>N/mm | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | DEFLECTION<br>DEFLESSIONE<br>mm | LOAD<br>CARICO<br>N | NR. PCS<br>NR. PEZZI |       |    |
|---------------------|--|----------------------|---|--------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|----------------------|-------|----|
| BO 32044            | 32   | 16                   | 44  | 1300                     | 4.4                             | 5720                | 5.9                             | 7670                | 6.6                             | 8580                | 20                   |       |    |
| BO 32051            |  |                      | 51  | 1150                     | 5.1                             | 5865                | 6.9                             | 7935                | 7.7                             | 8798                | 20                   |       |    |
| BO 32064            |  |                      | 64  | 887                      | 6.4                             | 5677                | 8.6                             | 7628                | 9.6                             | 8515                | 20                   |       |    |
| BO 32076            |  |                      | 76  | 733                      | 7.6                             | 5571                | 10.3                            | 7550                | 11.4                            | 8356                | 20                   |       |    |
| BO 32089            |  |                      | 89  | 612                      | 8.9                             | 5447                | 12.0                            | 7344                | 13.4                            | 8170                | 20                   |       |    |
| BO 32102            |  |                      | 102   | 544                      | 10.2                            | 5549                | 13.8                            | 7507                | 15.3                            | 8323                | 20                   |       |    |
| BO 32115            |  |                      | WIRE SECTION<br>SEZIONE FILO<br>7.4 x 8.8   | 115                      | 494                             | 11.5                | 5681                            | 15.5                | 7657                            | 17.2                | 8522                 | 10    |    |
| BO 32127            |  |                      |   | 127                      | 432                             | 12.7                | 5486                            | 17.1                | 7387                            | 19.1                | 8230                 | 10    |    |
| BO 32152            |  |                      |   | 152                      | 356                             | 15.2                | 5411                            | 20.5                | 7298                            | 22.8                | 8117                 | 10    |    |
| BO 32178            |  |                      |   | 178                      | 304                             | 17.8                | 5411                            | 24.0                | 7296                            | 26.7                | 8117                 | 10    |    |
| BO 32203            |  |                      |   | 203                      | 265                             | 20.3                | 5380                            | 27.4                | 7261                            | 30.4                | 8069                 | 10    |    |
| BO 32254            |  |                      |   | 254                      | 214                             | 25.4                | 5436                            | 34.3                | 7340                            | 38.1                | 8153                 | 5     |    |
| BO 32305            |  |                      |   | 305                      | 177                             | 30.5                | 5399                            | 41.2                | 7292                            | 45.8                | 8098                 | 5     |    |
| BO 38064            |  |                      | 40  | 20                       | 64                              | 1228                | 6.4                             | 7859                | 8.6                             | 10561               | 9.6                  | 11789 | 20 |
| BO 38076            |  |                      |   |                          | 76                              | 1017                | 7.6                             | 7729                | 10.2                            | 10373               | 11.4                 | 11594 | 20 |
| BO 38089            | 89   | 880                  |   |                          | 8.9                             | 7832                | 12.0                            | 10560               | 13.4                            | 11748               | 20                   |       |    |
| BO 38102            | 102  | 762                  |   |                          | 10.2                            | 7772                | 13.8                            | 10516               | 15.3                            | 11659               | 20                   |       |    |
| BO 38115            | 115  | 679                  |   |                          | 11.5                            | 7809                | 15.5                            | 10525               | 17.3                            | 11713               | 10                   |       |    |
| BO 38127            | WIRE SECTION<br>SEZIONE FILO<br>8.4 x 10.9 | 127                  |   |                          | 622                             | 12.7                | 7899                            | 17.1                | 10636                           | 19.1                | 11849                | 10    |    |
| BO 38152            |  | 152                  |   |                          | 509                             | 15.2                | 7737                            | 20.5                | 10435                           | 22.8                | 11605                | 10    |    |
| BO 38178            |  | 178                  |   |                          | 429                             | 17.8                | 7636                            | 24.0                | 10296                           | 26.7                | 11454                | 10    |    |
| BO 38203            |  | 203                  |   |                          | 374                             | 20.3                | 7592                            | 27.4                | 10248                           | 30.4                | 11388                | 5     |    |
| BO 38254            |  | 254                  |   |                          | 296                             | 25.4                | 7518                            | 34.3                | 10153                           | 38.1                | 11278                | 5     |    |
| BO 38305            | 305  | 246                  | 30.5  | 7503                     | 41.2                            | 10135               | 45.8                            | 11255               | 5                               |                     |                      |       |    |
| BO 50064            | 50   | 25                   | 64  | 1980                     | 6.4                             | 12672               | 8.6                             | 17028               | 9.6                             | 19008               | 20                   |       |    |
| BO 50076            |  |                      | 76  | 1811                     | 7.6                             | 13764               | 10.2                            | 18472               | 11.4                            | 20645               | 20                   |       |    |
| BO 50089            |  |                      | 89  | 1410                     | 8.9                             | 12549               | 12.0                            | 16920               | 13.4                            | 18824               | 10                   |       |    |
| BO 50102            |  |                      | 102   | 1215                     | 10.2                            | 12393               | 13.8                            | 16767               | 15.3                            | 18590               | 10                   |       |    |
| BO 50115            |  |                      | 115   | 1076                     | 11.5                            | 12374               | 15.5                            | 16678               | 17.3                            | 18561               | 10                   |       |    |
| BO 50127            |  |                      | WIRE SECTION<br>SEZIONE FILO<br>11.8 x 13.4 | 127                      | 968                             | 12.7                | 12294                           | 17.1                | 16553                           | 19.1                | 18440                | 10    |    |
| BO 50152            |  |                      |   | 152                      | 806                             | 15.2                | 12251                           | 20.5                | 16523                           | 22.8                | 18377                | 10    |    |
| BO 50178            |  |                      |   | 178                      | 698                             | 17.8                | 12424                           | 24.0                | 16752                           | 26.7                | 18637                | 5     |    |
| BO 50203            |  |                      |   | 203                      | 612                             | 20.3                | 12424                           | 27.4                | 16769                           | 30.4                | 18635                | 5     |    |
| BO 50254            |  |                      |   | 254                      | 472                             | 25.4                | 11989                           | 34.3                | 16190                           | 38.1                | 17983                | 5     |    |
| BO 50305            | 305  | 388                  | 30.5  | 11834                    | 41.2                            | 15986               | 45.8                            | 17751               | 5                               |                     |                      |       |    |
| BO 63089            | 63   | 38                   | 89  | 1517                     | 12.0                            | 18204               | 12.6                            | 19114               | 17.8                            | 27003               | 10                   |       |    |
| BO 63102            |  |                      | 102   | 1295                     | 13.8                            | 17871               | 14.5                            | 18778               | 20.9                            | 27066               | 10                   |       |    |
| BO 63115            |  |                      | 115   | 1070                     | 15.5                            | 16585               | 17.5                            | 18725               | 25.1                            | 26857               | 10                   |       |    |
| BO 63127            |  |                      | 127   | 979                      | 17.1                            | 16741               | 19.1                            | 18699               | 27.3                            | 26727               | 10                   |       |    |
| BO 63152            |  |                      | WIRE SECTION<br>SEZIONE FILO<br>11.8 x 17.8 | 152                      | 775                             | 20.5                | 15888                           | 24.3                | 18833                           | 34.2                | 26505                | 10    |    |
| BO 63178            |  |                      |   | 178                      | 630                             | 24.0                | 15120                           | 29.4                | 18522                           | 41.8                | 26334                | 5     |    |
| BO 63203            |  |                      |   | 203                      | 546                             | 27.4                | 14960                           | 33.9                | 18509                           | 48.5                | 26481                | 5     |    |
| BO 63254            |  |                      |   | 254                      | 423                             | 34.3                | 14509                           | 44.5                | 18824                           | 62.2                | 26311                | 5     |    |
| BO 63305            | 305  | 349                  | 41.2  | 14379                    | 53.4                            | 18637               | 74.7                            | 26070               | 5                               |                     |                      |       |    |





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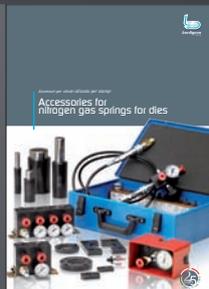
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