

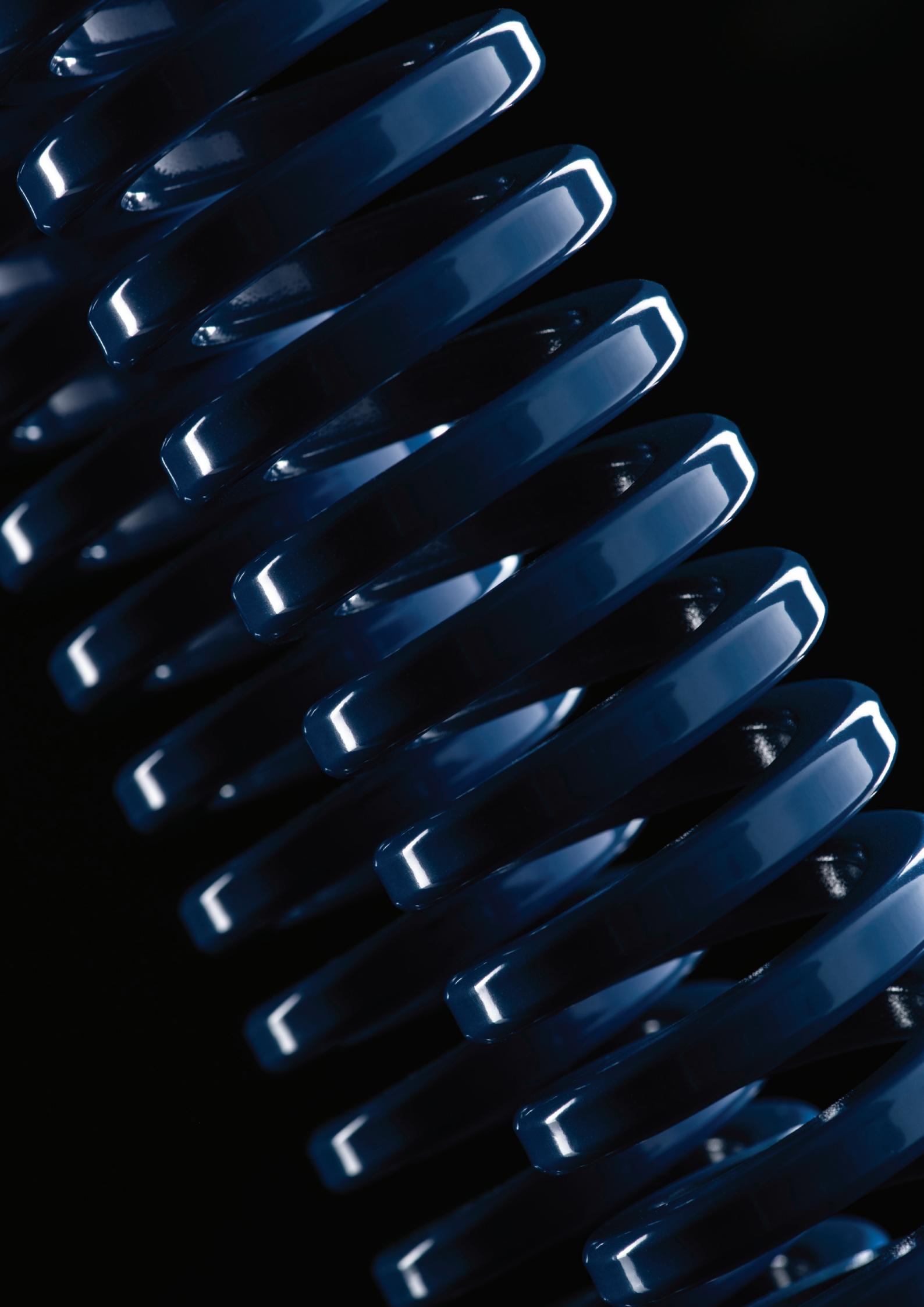
B FEDER

ISO 10243 Die Springs

MOLLE PER STAMPI ISO 10243



www.bordignon.com



Why choose B Feder?

Perché scegliere B Feder?

B Feder

Decades of experience allow Bordignon to present a new player on the international market: the B Feder line, which combines the best qualities of technological innovation and of traditional know-how.

Thanks to new spring designs, B Feder completes Bordignon Trading's wide range of highly specialized products, providing dies and moulds makers and users with a state-of-the-art product fashioned with high-quality materials that guarantees the excellent performance levels which have long distinguished Bordignon Trading as a recognizable and respected name in Italian spring and mould technology.

Innovation, quality, and service

The B Feder mantra

The B Feder brand, a synonym of distinction, is engraved on each spring to guarantee quality and innovation. In addition to our careful choices of the best materials and treatments, the quality of our springs is ensured by rigorous testing of their strength and durability under diverse working conditions.

B Feder produces springs both according company design and conforming to international standards, including ISO 10243.

The products in the catalogue are distributed in all the main productive regions of the world through an efficient commercial network.

We have strategically chosen to always store a certain stock available so as to be able to fulfill most orders as quickly as possible.

B Feder

Dalla pluridecennale esperienza Bordignon nasce il marchio B Feder: un nuovo attore che si propone sulla scena del mercato internazionale integrando in sé le migliori qualità dell'innovazione tecnologica ed il tradizionale know-how.

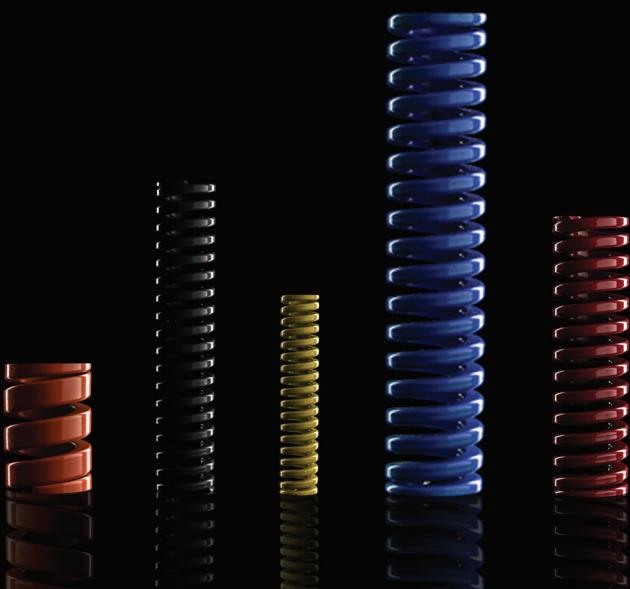
Con la nuova serie di molle B Feder, Bordignon Trading amplia l'articolata gamma di prodotti ad alta specializzazione, consegnando allo stampista ed allo stampatore un prodotto ad elevate prestazioni, realizzato con l'impiego di materiali eccellenti in grado di assicurare le prestazioni che fanno di Bordignon Trading un marchio del made in Italy tecnologico riconosciuto nel mondo degli stampi.

Innovazione, qualità e servizio

Così B Feder fa la differenza

Sinonimo di distinzione, il marchio B Feder impresso su ognuna delle molle per stampi, garantisce qualità e innovazione. Oltre all'accurata scelta dei materiali e ai migliori trattamenti, le nostre molle vengono sottoposte a rigorosi test di verifica della durata a fatica alle diverse condizioni d'utilizzo.

B Feder fornisce sia molle a disegno sia molle secondo gli standard internazionali, tra cui l'ISO 10243. I prodotti a catalogo sono distribuiti in tutte le principali aree produttive del mondo tramite un'efficiente rete commerciale. La scelta strategica di tenere sempre una scorta a magazzino ci permette di evadere la maggior parte degli ordini entro il più breve tempo possibile.



Die spring ISO 10243

Molle per stampi ISO 10243

Parameters

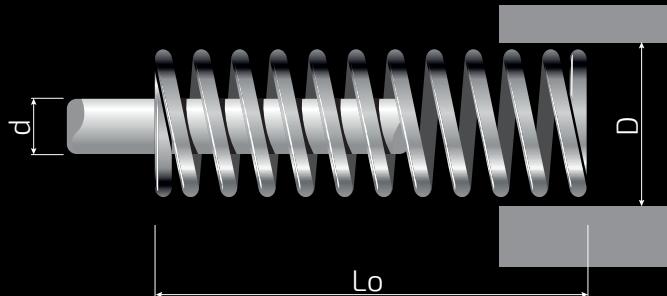
The ISO 10243 standard defines parameters for rectangular-section compression springs as follows:

- D** External diameter, equal to the diameter of the housing;
- d** Internal diameter, equal to the diameter of the guide pin;
- Lo** Free length, the length of the spring at rest;
- R** Rate (N/mm). It is the load, in Newtons (N), necessary to deflect the spring by 1 mm ($1 \text{ mm} \approx 0.04 \text{ in}$; $1 \text{ N} \approx 0.102 \text{ kgf} \approx 0.225 \text{ lbf}$).

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** Rigidità (N/mm). È il carico, espresso in Newton (N), necessario per deflettere la molla di 1 mm ($1 \text{ mm} \approx 0.04 \text{ in}$; $1 \text{ N} \approx 0.102 \text{ kgf} \approx 0.225 \text{ lbf}$).



The standard also defines:

- Maximum working deflection amounts for each spring;
- Tolerance of free 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.

B Feder, six lines under one brand name

The "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 free length;
- BO** Orange, super-heavy load, for particularly large loads.

B Feder, un marchio per sei serie

Il presente catalogo "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
B FEDER

BG
ISO 10243

BA
ISO 10243

BR
ISO 10243

BY
ISO 10243

BO
B FEDER

Extra Light Load - *Carico Extra Leggero*

COLOUR - COLORE 

BLACK - *NERO*

Light Load - *Carico Leggero*

COLOUR - COLORE 

GREEN - *VERDE*

Medium Load - *Carico Medio*

COLOUR - COLORE 

BLUE - *BLU*

Heavy Load - *Carico Forte*

COLOUR - COLORE 

RED - *ROSSO*

Extra Heavy Load - *Carico Extra Forte*

COLOUR - COLORE 

YELLOW - *GIALLO*

Super Heavy Load - *Carico Super Forte*

COLOUR - COLORE 

ORANGE - *ARANCIONE*



Choosing a Spring

Our points of strength

Come selezionare la molla

I nostri punti di forza

Deflection

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.

Deflessione

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 Standard	Series Serie	Load Carico	Long life total deflection Deflessione totale per lunga durata	Cycles Cicli	Maximum working total deflection Deflessione totale massima consentita	Cycles Cicli	Deflection to solid Deflessione a blocco
B FEDER	BS	Extra Light Extra Leggero	35%	+3.000.000	50%	200.000	Approx. 60%
ISO 10243	BG	Light Leggero	30%	+3.000.000	40%	200.000	Approx. 50%
ISO 10243	BA	Medium Medio	25%	+3.000.000	37.5%	200.000	Approx. 45%
ISO 10243	BR	Heavy Forte	20%	+3.000.000	30%	200.000	Approx. 40%
ISO 10243	BY	Extra Heavy Extra Forte	17%	+5.000.000	25%	300.000	Approx. 35%
B FEDER	BO	Super Heavy 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 free 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 $L_0/D > 3$.

Tolerances

SPRING RATE: $\pm 10\%$;

FREE LENGTH: $\pm 1\%$ with a minimum of $\pm 1 \text{ mm}$;

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 free length of 38 mm.

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 $L_0/D > 3$.

Tolleranze

RIGIDITÀ: $\pm 10\%$;

LUNGHEZZA LIBERA: $\pm 1\%$ con un minimo di $\pm 1 \text{ mm}$;

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 Springs ISO 10243:2019*

*Updated to the Standard ISO 10243:2019 third edition 2019-05

*Aggiornate allo Standard ISO 10243:2019 terza edizione 05-2019



Where innovation happens

BS	D	d	L₀	R	 35% Long life deflection Deflessione per lunga durata	 40% Average working defl. Deflessione media di lavoro	 50% Max working defl. Deflessione max di lavoro				
					Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi		
BS 10025	10	5	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	12.5	6.3	25	15.5	8.8	136	10.0	155	12.5	194	100
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	16	8	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	20	10	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	25	12.5	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			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	5.35 x 2.20	WIRE SECTION SEZIONE FILO	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

BS	D	d	L₀	R	 35% Long life deflection Deflessione per lunga durata	 40% Average working defl. Deflessione media di lavoro	 50% Max working defl. Deflessione max di lavoro				
					Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs 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 SEZIONE FILO 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 SEZIONE FILO 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 SEZIONE FILO 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	WIRE SECTION SEZIONE FILO 11.4 x 5.10		127	33.2	44.5	1476	50.8	1687	63.5	2108	10
BS 63151			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

Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	30%		35%		40%		Nr. Pcs Nr. Pezzi
					Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	
BG 10025	10	5	25	11.0	7.5	82.5	8.8	96.8	10.0	110.0	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	4.1	19.2	78.7	22.4	91.8	25.6	105.0	50
BG 10075			76	3.6	22.8	82.1	26.6	95.8	30.4	109.4	50
BG 10303			305	0.9	91.5	82.4	107.0	96.3	122.0	109.8	20
BG 13025	12.5	6.3	25	21.0	7.5	157.5	8.8	184.8	10.0	210.0	100
BG 13032			32	16.4	9.6	157.4	11.2	183.7	12.8	209.9	100
BG 13038			38	13.6	11.4	155.0	13.3	180.9	15.2	206.7	100
BG 13045			44	12.1	13.2	159.7	15.4	186.3	17.6	213.0	100
BG 13050			51	10.3	15.3	157.6	17.9	184.4	20.4	210.1	100
BG 13065			64	7.6	19.2	145.9	22.4	170.2	25.6	194.6	50
BG 13075			76	6.3	22.8	143.6	26.6	167.6	30.4	191.5	50
BG 13090			89	5.4	26.7	144.2	31.2	168.5	35.6	192.2	50
BG 13101			102	4.6	30.6	140.8	35.7	164.2	40.8	187.7	50
BG 13303			305	1.6	91.5	146.4	107.0	171.2	122.0	195.2	20
BG 16025	16	8	25	29.0	7.5	217.5	8.8	255.2	10.0	290.0	100
BG 16032			32	22.9	9.6	219.8	11.2	256.5	12.8	293.1	100
BG 16038			38	19.3	11.4	220.0	13.3	256.7	15.2	293.4	100
BG 16045			44	17.1	13.2	225.7	15.4	263.3	17.6	301.0	100
BG 16050			51	14.0	15.3	214.2	17.9	250.6	20.4	285.6	100
BG 16065			64	10.7	19.2	205.4	22.4	239.7	25.6	273.9	50
BG 16075			76	9.0	22.8	205.2	26.6	239.4	30.4	273.6	50
BG 16090			89	7.3	26.7	194.9	31.2	227.8	35.6	259.9	50
BG 16101			102	6.8	30.6	208.1	35.7	242.8	40.8	277.4	50
BG 16115			115	7.0	34.5	241.5	40.3	282.1	46.0	322.0	50
BG 16303			305	2.3	91.5	210.5	107.0	246.1	122.0	280.6	20
BG 19025	20	10	25	55.8	7.5	418.5	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	36.0	11.4	410.4	13.3	478.8	15.2	547.2	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	374.9	17.9	438.6	20.4	499.8	100
BG 19065			64	19.2	19.2	368.6	22.4	430.1	25.6	491.5	50
BG 19075			76	16.0	22.8	364.8	26.6	425.6	30.4	486.4	50
BG 19090			89	14.0	26.7	373.8	31.2	436.8	35.6	498.4	50
BG 19101			102	12.0	30.6	367.2	35.7	428.4	40.8	489.6	50
BG 19115			115	10.9	34.5	376.1	40.3	439.3	46.0	501.4	20
BG 19126	4.00 x 2.1	3.2 x 1.7	127	9.5	38.1	362.0	44.5	422.8	50.8	482.6	20
BG 19140			139	8.4	41.7	350.3	48.7	409.1	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	25	12.5	25	105.0	7.5	787.5	8.8	924.0	10.0	1050.0	100
BG 26032			32	80.3	9.6	770.9	11.2	899.4	12.8	1027.8	50
BG 26038			38	62.0	11.4	706.8	13.3	824.6	15.2	942.4	50
BG 26045			44	52.9	13.2	698.3	15.4	814.7	17.6	931.0	50
BG 26050			51	44.0	15.3	673.2	17.9	787.6	20.4	897.6	50
BG 26065			64	35.2	19.2	675.8	22.4	788.5	25.6	901.1	50
BG 26075			76	28.0	22.8	638.4	26.6	744.8	30.4	851.2	20
BG 26090			89	24.0	26.7	640.8	31.2	748.8	35.6	854.4	20
BG 26101			102	21.1	30.6	645.7	35.7	753.3	40.8	860.9	20
BG 26115			115	18.7	34.5	645.2	40.3	753.6	46.0	860.2	20
BG 26126	5.35 x 2.7	5.35 x 2.7	127	16.7	38.1	636.3	44.5	743.2	50.8	848.4	10
BG 26140			139	15.3	41.7	638.0	48.7	745.1	55.6	850.7	10
BG 26151			152	14.0	45.6	638.4	53.2	744.8	60.8	851.2	10
BG 26176			178	12.5	53.4	667.5	62.3	778.8	71.2	890.0	10
BG 26202			203	10.4	60.9	633.4	71.1	739.4	81.2	844.5	10
BG 26303			305	7.0	91.5	640.5	107.0	749.0	122.0	854.0	5

Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi
BG 32038	32	16	38	98.0	11.4	1117	13.3	1303	15.2	1490	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 SEZIONE FILO 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	102.0	1275	5
BG 32303			305	10.3	91.5	942	107.0	1102	122.0	1257	5
BG 38050	40	20	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	45.0	30.6	1377	35.7	1607	40.8	1836	20
BG 38115			115	39.6	34.5	1366	40.3	1596	46.0	1822	10
BG 38126	WIRE SECTION SEZIONE FILO 8.0 x 4.0		127	36.0	38.1	1372	44.5	1602	50.8	1829	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	21.8	60.9	1328	71.1	1550	81.2	1770	5
BG 38252			254	17.0	76.2	1295	88.9	1511	102.0	1734	5
BG 38303			305	14.8	91.5	1354	107.0	1584	122.0	1806	5
BG 51065	50	25	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 SEZIONE FILO 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	102.0	3570	5
BG 51303			305	28.5	91.5	2608	107.0	3050	122.0	3477	5
BG 63075	63	38	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	WIRE SECTION SEZIONE FILO 11.6 x 7.7		127	103.0	38.1	3924	44.5	4584	50.8	5232	10
BG 63151			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	102.0	4794	5
BG 63303			305	38.2	91.5	3495	107.0	4087	122.0	4660	5

Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi	
BA 10025	WIRE SECTION SEZIONE FILO 1.8 x 1.2	10	5	25	16.0	6.25	100.0	7.5	120.0	9.4	150.4	100
BA 10032				32	13.0	8.0	104.0	9.6	124.8	12.0	156.0	100
BA 10038				38	11.9	9.5	113.1	11.4	135.7	14.2	169.0	100
BA 10045				44	10.3	11.0	113.3	13.2	136.0	16.5	170.0	100
BA 10050				51	8.9	12.75	113.5	15.3	136.2	19.1	170.0	100
BA 10065				64	7.5	16.0	120.0	19.2	144.0	24.0	180.0	50
BA 10075				76	6.2	19.0	117.8	22.8	141.4	28.5	176.7	50
BA 10303				305	1.6	76.25	122.0	91.5	146.4	114.0	182.4	20
BA 13025	WIRE SECTION SEZIONE FILO 2.5 x 1.7	12.5	6.3	25	30.0	6.3	187.5	7.5	225.0	9.4	282.0	100
BA 13032				32	24.8	8.0	198.4	9.6	238.1	12.0	297.6	100
BA 13038				38	21.4	9.5	203.3	11.4	244.0	14.2	303.9	100
BA 13045				44	18	11.0	198.0	13.2	237.6	16.5	297.0	100
BA 13050				51	15.5	12.8	197.6	15.3	237.2	19.1	296.1	100
BA 13065				64	12.1	16.0	193.6	19.2	232.3	24.0	290.4	50
BA 13075				76	10.2	19.0	193.8	22.8	232.6	28.5	290.7	50
BA 13090				89	8.4	22.3	186.9	26.7	224.3	33.3	279.7	50
BA 13101				102	7.1	25.5	181.1	30.6	217.3	38.3	271.6	50
BA 13303				305	2.4	76.3	183.0	91.5	219.6	114.0	273.6	20
BA 16025	WIRE SECTION SEZIONE FILO 3.2 x 2.0	16	8	25	49.4	6.3	308.8	7.5	370.5	9.4	464.4	100
BA 16032				32	38.5	8.0	308.0	9.6	369.6	12.0	462.0	100
BA 16038				38	33.9	9.5	322.1	11.4	386.5	14.2	481.4	100
BA 16045				44	30.0	11.0	330.0	13.2	396.0	16.5	495.0	100
BA 16050				51	26.4	12.8	336.6	15.3	403.9	19.1	504.2	100
BA 16065				64	20.5	16.0	328.0	19.2	393.6	24.0	492.0	50
BA 16075				76	17.8	19.0	338.2	22.8	405.8	28.5	507.3	50
BA 16090				89	15.2	22.3	338.2	26.7	405.8	33.3	506.2	50
BA 16101				102	13.5	25.5	344.3	30.6	413.1	38.2	515.7	50
BA 16115				115	12.0	28.8	345.0	34.5	414.0	43.1	517.5	50
BA 16303				305	4.3	76.3	327.9	91.5	393.5	114.0	490.2	20
BA 19025	WIRE SECTION SEZIONE FILO 4.00 x 2.4	20	10	25	98.0	6.3	612.5	7.5	735.0	9.4	921.2	100
BA 19032				32	72.6	8.0	580.8	9.6	697.0	12.0	871.2	100
BA 19038				38	56.0	9.5	532.0	11.4	638.4	14.2	795.2	100
BA 19045				44	47.5	11.0	522.5	13.2	627.0	16.5	783.8	100
BA 19050				51	41.7	12.8	531.7	15.3	638.0	19.1	796.5	100
BA 19065				64	32.3	16.0	516.8	19.2	620.2	24.0	775.2	50
BA 19075				76	25.1	19.0	476.9	22.8	572.3	28.5	715.4	50
BA 19090				89	22.0	22.3	489.5	26.7	587.4	33.3	732.6	50
BA 19101				102	19.8	25.5	504.9	30.6	605.9	38.2	756.4	50
BA 19115				115	18.1	28.8	520.4	34.5	624.5	43.1	780.1	20
BA 19126	WIRE SECTION SEZIONE FILO 5.3 x 3.1			127	16.6	31.8	527.1	38.1	632.5	47.6	790.2	20
BA 19140				139	15.1	34.8	524.7	42.0	634.2	52.1	786.7	20
BA 19151				152	13.2	38.0	501.6	45.6	601.9	57.0	752.4	20
BA 19303				305	6.1	76.3	465.1	91.5	558.2	114.0	695.4	10
BA 26025	WIRE SECTION SEZIONE FILO 5.3 x 3.1	25	12.5	25	157.0	6.3	981	7.5	1178	9.4	1476	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	14.2	1321	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	1310	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	22.3	850	26.7	1020	33.3	1272	20
BA 26101				102	33.0	25.5	842	30.6	1010	38.2	1261	20
BA 26115				115	28.0	28.8	805	34.5	966	43.1	1207	20
BA 26126	WIRE SECTION SEZIONE FILO 6.3 x 3.1			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	948	57.0	1186	10
BA 26176				178	17.8	44.5	792	53.4	951	66.7	1187	10
BA 26202				203	15.8	50.8	802	60.9	962	76.1	1202	10
BA 26303				305	10.2	76.3	778	91.5	933	114.0	1163	5

Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi
BA 32038	32	16	38	185.0	9.5	1758	11.4	2109	14.2	2627	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	2559	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	22.3	1537	26.7	1845	33.3	2301	20
BA 32101			102	58.8	25.5	1499	30.6	1799	38.2	2246	20
BA 32115	WIRE SECTION SEZIONE FILO 6.8 x 4.0	115	51.5	28.8	1481	34.5	1777	43.1	2220	10	
BA 32126		127	44.8	31.8	1422	38.1	1707	47.6	2132	10	
BA 32140		139	42.3	34.8	1470	42.0	1777	52.1	2204	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	66.7	2168	10	
BA 32202		203	28.9	50.8	1467	60.9	1760	76.1	2199	10	
BA 32252		254	22.2	63.5	1410	76.2	1692	95.2	2113	5	
BA 32303		305	18.3	76.3	1395	91.5	1674	114.0	2086	5	
BA 38050	40	20	51	182	12.8	2321	15.3	2785	19.1	3476	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	22.3	2018	26.7	2422	33.3	3020	20
BA 38101			102	81.0	25.5	2066	30.6	2479	38.2	3094	20
BA 38115			115	71.8	28.8	2064	34.5	2477	43.1	3095	10
BA 38126	WIRE SECTION SEZIONE FILO 8.1 x 4.8	127	62.7	31.8	1991	38.1	2389	47.6	2985	10	
BA 38140		139	57.5	34.8	1998	42.0	2415	52.1	2996	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	1962	53.4	2355	66.7	2941	10	
BA 38202		203	36.7	50.8	1863	60.9	2235	76.1	2793	5	
BA 38252		254	30.1	63.5	1911	76.2	2294	95.2	2866	5	
BA 38303		305	24.6	76.3	1876	91.5	2251	114.0	2804	5	
BA 51065	50	25	64	209.0	16.0	3344	19.2	4013	24.0	5016	20
BA 51075			76	168.0	19.0	3192	22.8	3830	28.5	4788	20
BA 51090			89	140.0	22.3	3115	26.7	3738	33.3	4662	10
BA 51101			102	119.0	25.5	3035	30.6	3641	38.2	4546	10
BA 51115			115	106.0	28.8	3048	34.5	3657	43.1	4569	10
BA 51126			127	97.0	31.8	3080	38.1	3696	47.6	4617	10
BA 51140	WIRE SECTION SEZIONE FILO 10.9 x 6.0	139	87.0	34.8	3023	42.0	3654	52.1	4533	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	66.7	4636	5	
BA 51202		203	59.8	50.8	3035	60.9	3642	76.1	4551	5	
BA 51229		229	50.9	57.3	2914	68.7	3497	85.8	4367	5	
BA 51252		254	46	63.5	2921	76.2	3505	95.2	4379	5	
BA 51303		305	38.6	76.3	2943	91.5	3532	114.0	4400	5	
BA 63075	63	38	76	320.0	19.0	6080	22.8	7296	28.5	9120	20
BA 63090			89	260.0	22.3	5785	26.7	6942	33.3	8658	10
BA 63101			102	221.0	25.5	5636	30.6	6763	38.2	8442	10
BA 63115			115	187.0	28.8	5376	34.5	6452	43.1	8060	10
BA 63126			127	168.0	31.8	5334	38.1	6401	47.6	7997	10
BA 63151			152	136.0	38.0	5168	45.6	6202	57.0	7752	10
BA 63160	WIRE SECTION SEZIONE FILO 11.5 x 9.3	160	128.0	40.0	5120	48.0	6144	60.0	7680	10	
BA 63176		178	114.0	44.5	5073	53.4	6088	66.7	7604	5	
BA 63202		203	100.0	50.8	5075	60.9	6090	76.1	7610	5	
BA 63229		229	89.2	57.3	5107	68.7	6128	85.8	7653	5	
BA 63252		254	78.4	63.5	4978	76.2	5974	95.2	7464	5	
BA 63303		305	64.7	76.3	4933	91.5	5920	114.0	7376	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	

Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi
BR 10025	10	5	25	23.0	5.0	115.0	6.3	144.9	7.5	172.5	100
BR 10032			32	17.5	6.4	112.0	8.0	140.0	9.6	168.0	100
BR 10038			38	14.8	7.6	112.5	9.5	140.6	11.4	168.7	100
BR 10045	WIRE SECTION SEZIONE FILO 1.8 x 1.4		44	13.0	8.8	114.4	11.0	143.0	13.2	171.6	100
BR 10050			51	11.2	10.2	114.2	12.8	143.4	15.3	171.4	100
BR 10065			64	9.2	12.8	117.8	16.0	147.2	19.2	176.6	50
BR 10075			76	7.5	15.2	114.0	19.0	142.5	22.8	171.0	50
BR 10303			305	1.9	61.0	115.9	76.3	145.0	91.5	173.9	20
BR 13025	12.5	6.3	25	42.1	5.0	210.5	6.3	265.2	7.5	315.8	100
BR 13032			32	33.2	6.4	212.5	8.0	265.6	9.6	318.7	100
BR 13038			38	29.3	7.6	222.7	9.5	278.4	11.4	334.0	100
BR 13045			44	24.6	8.8	216.5	11.0	270.6	13.2	324.7	100
BR 13050	WIRE SECTION SEZIONE FILO 2.4 x 2.0		51	19.6	10.2	199.9	12.8	250.9	15.3	299.9	100
BR 13065			64	15.0	12.8	192.0	16.0	240.0	19.2	288.0	50
BR 13075			76	13.2	15.2	200.6	19.0	250.8	22.8	301.0	50
BR 13090			89	11.4	17.8	202.9	22.3	254.2	26.7	304.4	50
BR 13101			102	9.4	20.4	191.8	25.5	239.7	30.6	287.6	50
BR 13303			305	3.2	61.0	195.2	76.3	244.2	91.5	292.8	20
BR 16025	16	8	25	75.7	5.0	378.5	6.3	476.9	7.5	567.8	100
BR 16032			32	60.2	6.4	385.3	8.0	481.6	9.6	577.9	100
BR 16038			38	50.8	7.6	386.1	9.5	482.6	11.4	579.1	100
BR 16045			44	42.8	8.8	376.6	11.0	470.8	13.2	565.0	100
BR 16050	WIRE SECTION SEZIONE FILO 3.0 x 2.4		51	37.1	10.2	378.4	12.8	474.9	15.3	567.6	100
BR 16065			64	30.3	12.8	387.8	16.0	484.8	19.2	581.8	50
BR 16075			76	25.7	15.2	390.6	19.0	488.3	22.8	586.0	50
BR 16090			89	21.7	17.8	386.3	22.3	483.9	26.7	579.4	50
BR 16101			102	18.9	20.4	385.6	25.5	482.0	30.6	578.3	50
BR 16115			115	17.0	23.0	391.0	28.8	489.6	34.5	586.5	50
BR 16303			305	6.3	61.0	384.3	76.3	480.7	91.5	576.5	20
BR 19025	20	10	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	WIRE SECTION SEZIONE FILO 4.00 x 3.2		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	14.0	61.0	854	76.3	1068	91.5	1281	10
BR 26025	25	12.5	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	WIRE SECTION SEZIONE FILO 5.6 x 4.1		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	1453	50.8	1819	60.9	2180	10
BR 26303			305	22.9	61.0	1397	76.3	1747	91.5	2095	5

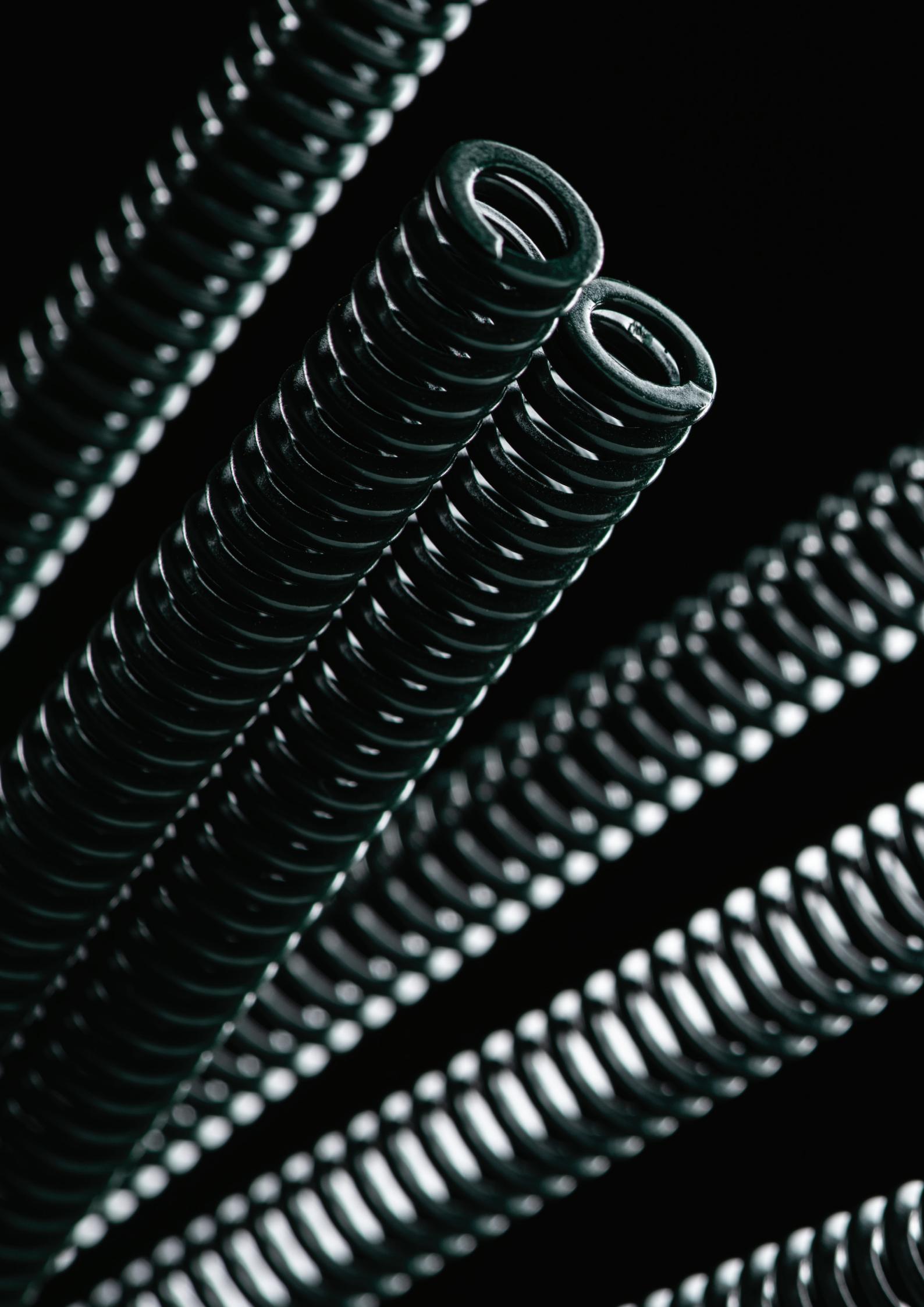
BR	D	d	L₀	R	 20% Long life deflection Deflessione per lunga durata	 25% Average working defl. Deflessione media di lavoro	 30% Max working defl. Deflessione max di lavoro				
Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs 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	WIRE SECTION SEZIONE FILO 6.9 x 5.3		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	3588	10
BR 32202			203	59.1	40.6	2399	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	5355	20
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	WIRE SECTION SEZIONE FILO 8.4 x 6.2		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	WIRE SECTION SEZIONE FILO 11.3 x 7.4		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	WIRE SECTION SEZIONE FILO 11.2 x 12.9		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

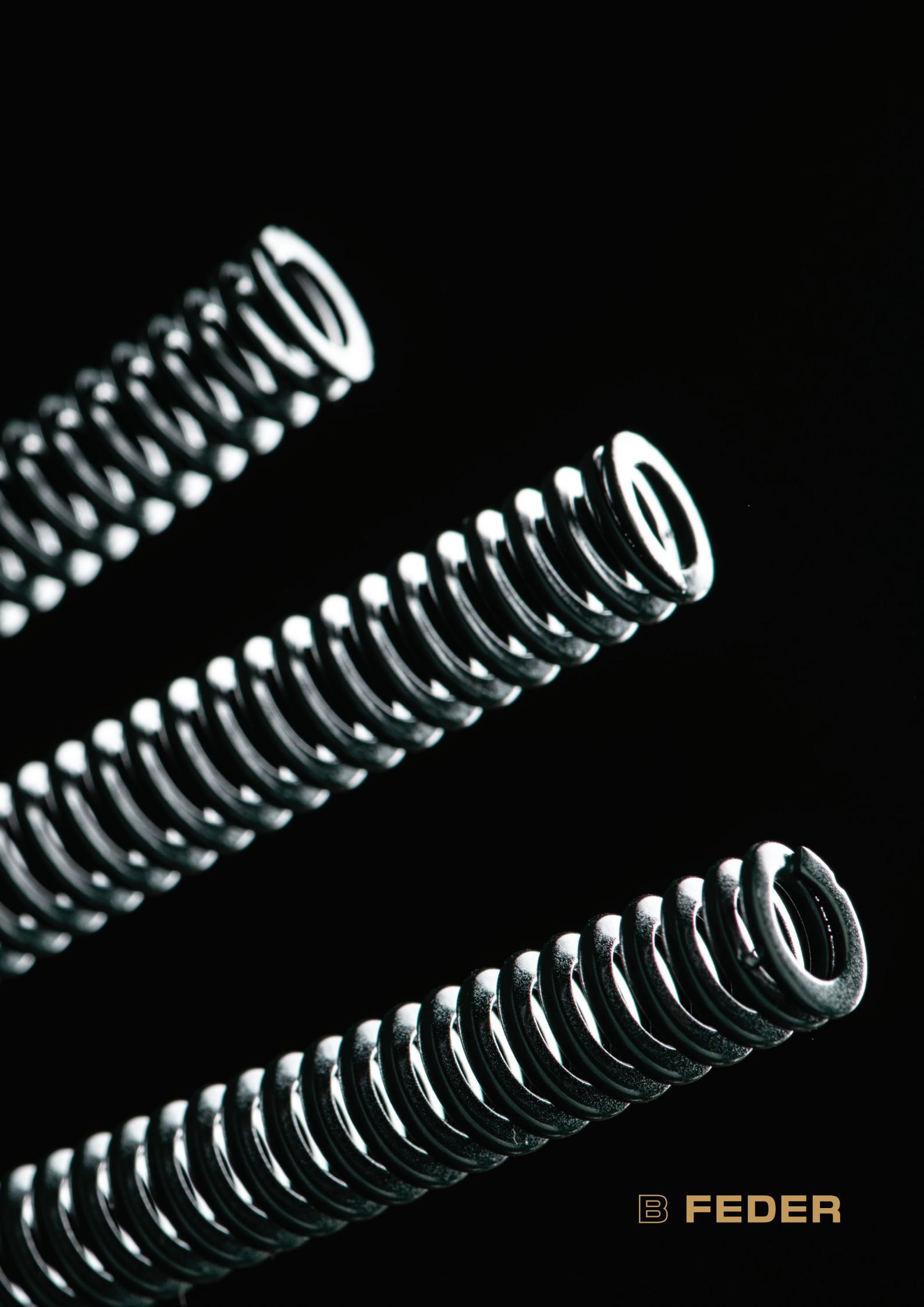
BY	D	d	L ₀	R	17% Long life deflection Deflessione per lunga durata	22.5% Average working defl. Deflessione media di lavoro	25% Max working defl. Deflessione max di lavoro				
Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi
BY 10025	10	5	25	36.8	4.3	156.4	5.6	206.1	6.2	228.2	100
BY 10032			32	27.9	5.4	151.8	7.2	200.9	8.0	223.2	100
BY 10038			38	23.7	6.5	153.1	8.6	203.8	9.5	225.2	100
BY 10045			44	19.2	7.5	143.6	9.9	190.1	11.0	211.2	100
BY 10050			51	16.5	8.7	143.1	11.5	189.8	12.7	209.6	100
BY 10065			64	13.2	10.9	143.6	14.4	190.1	16.0	211.2	50
BY 10075			76	10.9	12.9	140.8	17.1	186.4	19.0	207.1	50
BY 10303			305	2.6	51.9	134.8	68.6	178.4	76.3	198.4	20
BY 13025	12.5	6.3	25	58.5	4.3	248.6	5.6	327.6	6.2	362.7	100
BY 13032			32	43.9	5.4	238.8	7.2	316.1	8.0	351.2	100
BY 13038			38	36.0	6.5	232.6	8.6	309.6	9.5	342.0	100
BY 13045			44	30.3	7.5	226.6	9.9	300.0	11.0	333.3	100
BY 13050			51	26.2	8.7	227.2	11.5	301.3	12.7	332.7	100
BY 13065			64	21.2	10.9	230.7	14.4	305.3	16.0	339.2	50
BY 13075			76	17.1	12.9	220.9	17.1	292.4	19.0	324.9	50
BY 13090			89	14.5	15.1	219.4	20.0	290.0	22.2	321.9	50
BY 13101	2.3 x 2.2	2.3 x 2.2	102	12.5	17.3	216.8	23.0	287.5	25.5	318.8	50
BY 13303			305	4.3	51.9	223.0	68.6	295.0	76.3	328.1	20
BY 16025	16	8	25	118.0	4.3	501.5	5.6	660.8	6.2	731.6	100
BY 16032			32	89.0	5.4	484.2	7.2	640.8	8.0	712.0	100
BY 16038			38	72.1	6.5	465.8	8.6	620.1	9.5	685.0	100
BY 16045			44	60.9	7.5	455.5	9.9	602.9	11.0	669.9	100
BY 16050			51	52.3	8.7	453.4	11.5	601.5	12.7	664.2	100
BY 16065			64	41.2	10.9	448.3	14.4	593.3	16.0	659.2	50
BY 16075			76	34.1	12.9	440.6	17.1	583.1	19.0	647.9	50
BY 16090			89	29.5	15.1	446.3	20.0	590.0	22.2	654.9	50
BY 16101	3.2 x 2.7	3.2 x 2.7	102	25.6	17.3	443.9	23.0	588.8	25.5	652.8	50
BY 16115			115	22.8	19.6	445.7	25.9	590.5	28.8	655.5	50
BY 16303			305	8.4	51.9	435.5	68.6	576.2	76.3	640.9	20
BY 19025	20	10	25	293.0	4.3	1245	5.6	1641	6.2	1817	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	12.7	1626	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	1543	50
BY 19101	4.1 x 3.7	4.1 x 3.7	102	60.6	17.3	1051	23	1394	25.5	1545	50
BY 19115			115	53.0	19.6	1036	25.9	1373	28.7	1521	20
BY 19126			127	47.5	21.6	1026	28.6	1359	31.7	1506	20
BY 19140			139	43.0	23.6	1016	31.3	1346	34.7	1492	20
BY 19151			152	39.0	25.8	1008	34.2	1334	38.0	1482	20
BY 19303			305	20	51.9	1037	68.6	1372	76.3	1526	10
BY 26025	25	12.5	25	488.0	4.3	2074	5.6	2733	6.3	3050	100
BY 26032			32	374	5.4	2035	7.2	2693	8.0	2992	50
BY 26038			38	300.0	6.5	1938	8.6	2580	9.5	2850	50
BY 26045			44	244.0	7.5	1825	9.9	2416	11.0	2684	50
BY 26050			51	208	8.7	1803	11.5	2392	12.7	2642	50
BY 26065			64	161.0	10.9	1752	14.4	2318	16.0	2576	50
BY 26075			76	131	12.9	1693	17.1	2240	19.0	2489	20
BY 26090			89	111	15.1	1679	20.0	2220	22.2	2464	20
BY 26101	5.6 x 4.6	5.6 x 4.6	102	96.3	17.3	1670	23.0	2215	25.5	2456	20
BY 26115			115	85.7	19.6	1675	25.9	2220	28.7	2460	20
BY 26126			127	76.3	21.6	1647	28.6	2182	31.7	2419	10
BY 26140			139	66	23.6	1560	31.3	2066	34.7	2290	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	50.7	2383	10
BY 26303			305	30.9	51.9	1602	68.6	2120	76.3	2358	5

BY	D	d	L ₀	R	17% Long life deflection Deflessione per lunga durata	22.5% Average working defl. Deflessione media di lavoro	25% Max working defl. Deflessione max di lavoro				
Ctlg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi
BY 32038	32	16	38	480	6.5	3101	8.6	4128	9.5	4560	20
BY 32045			44	390	7.5	2917	9.9	3861	11.0	4290	20
BY 32050			51	336.0	8.7	2913	11.5	3864	12.7	4267	20
BY 32065			64	269	10.9	2927	14.4	3874	16.0	4304	20
BY 32075			76	219	12.9	2829	17.1	3745	19.0	4161	20
BY 32090			89	180	15.1	2723	20.0	3600	22.2	3996	20
BY 32101			102	155.0	17.3	2688	23.0	3565	25.5	3953	20
BY 32115	WIRE SECTION SEZIONE FILO 7.2 x 5.6		115	140.0	19.6	2737	25.9	3626	28.7	4018	10
BY 32126			127	124.0	21.6	2677	28.6	3546	31.7	3931	10
BY 32140			139	112.0	23.6	2647	31.3	3506	34.7	3886	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	50.7	3853	10
BY 32252			254	60.8	43.2	2625	57.2	3478	64	3891	5
BY 32303			305	49.0	51.9	2541	68.6	3361	76.3	3739	5
BY 38050	40	20	51	628.0	8.7	5445	11.5	7222	12.7	7976	20
BY 38065			64	487.0	10.9	5299	14.4	7013	16	7792	20
BY 38075			76	379.0	12.9	4897	17.1	6481	19	7201	20
BY 38090			89	321.0	15.1	4857	20.0	6420	22.2	7126	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	28.7	7032	10
BY 38126	WIRE SECTION SEZIONE FILO 8.7 x 7.3		127	221.0	21.6	4771	28.6	6321	31.7	7006	10
BY 38140			139	185.0	23.6	4372	31.3	5791	34.7	6420	10
BY 38151			152	168.0	25.8	4341	34.2	5746	38	6384	10
BY 38176			178	150.0	30.3	4539	40.1	6015	44.5	6675	10
BY 38202			203	132.0	34.5	4555	45.7	6032	50.7	6692	5
BY 38252			254	107.0	43.2	4620	57.2	6120	64	6848	5
BY 38303			305	87.8	51.9	4552	68.6	6023	76.6	6725	5
BY 51065	50	25	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	10545	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	28.7	10102	10
BY 51126	WIRE SECTION SEZIONE FILO 11.4 x 9.1		127	316.0	21.6	6822	28.6	9038	31.7	10017	10
BY 51140			139	289.0	23.6	6829	31.3	9046	34.7	10028	10
BY 51151			152	255.0	25.8	6589	34.2	8721	38.0	9690	10
BY 51176			178	215.0	30.3	6506	40.1	8622	44.5	9568	5
BY 51202			203	187.0	34.5	6453	45.7	8546	50.7	9481	5
BY 51252			254	153.0	43.2	6607	57.2	8752	64	9792	5
BY 51303			305	127.0	51.9	6585	68.6	8712	76.3	9690	5
BY 63075	63	38	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	WIRE SECTION SEZIONE FILO 11.8 x 13.3		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	10249	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	76.3	14793	5

BO	D	d	L ₀	R	10% Long life deflection Deflessione per lunga durata	13.5% Average working defl. Deflessione media di lavoro	15% Max working defl. Deflessione max di lavoro				
Ctg. Nr. Codice	Housing Sede Ø mm	Rod Spina Ø mm	Free Length Lungh. Libera mm	Rate Rigidità N/mm	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs Nr. Pezzi
BO 10025	10 WIRE SECTION SEZIONE FILO 2.2 x 2.7	5	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			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	12.5 WIRE SECTION SEZIONE FILO 2.8 x 3.4	6.3	25	288	2.5	720	3.3	950	3.75	1080	100
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			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	16 WIRE SECTION SEZIONE FILO 3.5 x 4.6	8	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			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	20 WIRE SECTION SEZIONE FILO 4.05 x 5.9	10	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			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	25 WIRE SECTION SEZIONE FILO 5.7 x 7.4	12.5	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			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

BO	D	d	L₀	R	 10% Long life deflection Deflessione per lunga durata	 13.5% Average working defl. Deflessione media di lavoro	 15% Max working defl. Deflessione max di lavoro				
					Deflection Deflessione mm	Load Carico N	Deflection Deflessione mm	Load Carico N	Nr. Pcs 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 SEZIONE FILO 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 SEZIONE FILO 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 SEZIONE FILO 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	8.9	13501	12.0	18204	13.4	20328	10
BO 63102			102	1295	10.2	13209	13.8	17871	15.3	19814	10
BO 63115			115	1070	11.5	12305	15.5	16585	17.3	18458	10
BO 63127			127	979	12.7	12433	17.1	16741	19.1	18650	10
BO 63152	WIRE SECTION SEZIONE FILO 11.8 x 17.8		152	775	15.2	11780	20.5	15888	22.8	17670	10
BO 63178			178	630	17.8	11214	24.0	15120	26.7	16821	5
BO 63203			203	546	20.3	11084	27.4	14960	30.5	16626	5
BO 63254			254	423	25.4	10744	34.3	14509	38.1	16116	5
BO 63305			305	349	30.5	10645	41.2	14379	45.8	15967	5





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