

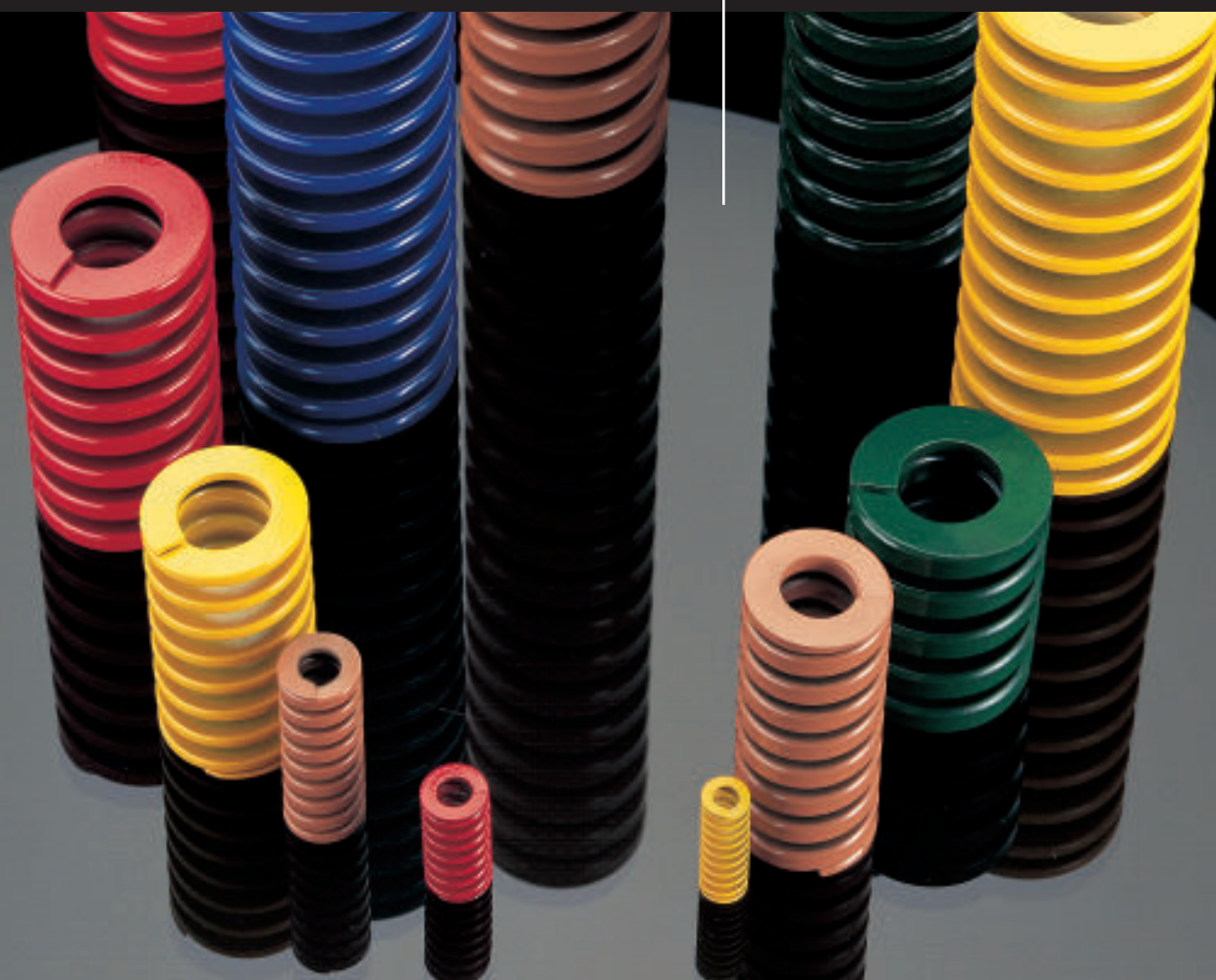


BORDIGNON

BORDIGNON

Molle per stampi "Metriche" (JIS B5012)

"Metric" Die Springs (JIS B5012)



Molle per Stampi "Metriche" (JIS B5012)

"Metric" Die Springs (JIS B5012)



BF
JIS B5012



BL
JIS B5012



BM
JIS B5012



BH
JIS B5012



BB
JIS B5012



6S
BORDIGNON

Sei serie

Le sei serie di molle sono ben individuate da altrettanti colori identificativi.

Six series

A color coding system gives easy identification of the six series.

Colore Colors	Serie Series	Carico Load
Giallo Yellow	BF JIS B5012	Extra Leggero Extra Light
Blu Blue	BL JIS B5012	Leggero Light
Rosso Red	BM JIS B5012	Medio Medium
Verde Green	BH JIS B5012	Forte Heavy
Ocra Ochre	BB JIS B5012	Extra Forte Extra Heavy
Oro Gold	6S BORDIGNON	Super Forte Super Heavy

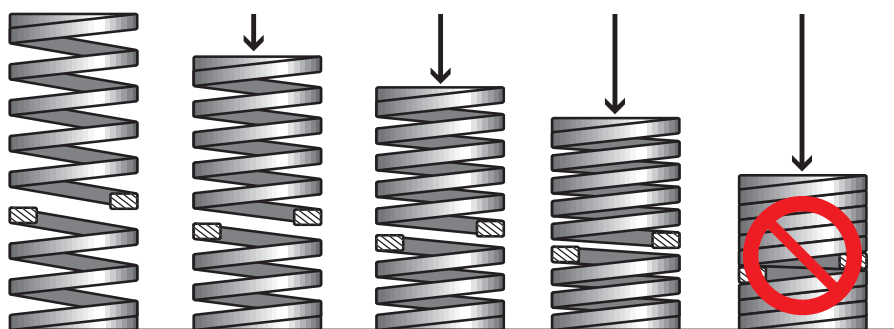
Selezione della molla

La selezione della molla e' facilitata dalle tabelle di catalogo, che indicano il carico e la deflessione in tre diverse ipotesi di durata media.
Il seguente prospetto riassume detti valori di durata e deflessione per ciascuna serie.

Spring selection

Spring selection is made easy from the ratings given in the charts of this catalogue.
The table summarizes the calculated mean life and deflection ratios for each series.

Cicli di lavoro Working cycles	1.000.000	500.000	300.000	⚠
Serie Series	Deflessione Deflection	Deflessione Deflection	Deflessione max Max deflection	Deflessione a blocco Deflection to solid
BF JIS B5012	40.0%	45.0%	50.0%	Approx. 58.0%
BL JIS B5012	32.0%	36.0%	40.0%	Approx. 48.0%
BM JIS B5012	25.6%	28.8%	32.0%	Approx. 38.0%
BH JIS B5012	19.2%	21.6%	24.0%	Approx. 28.0%
BB JIS B5012	16.0%	18.0%	20.0%	Approx. 24.0%
6S BORDIGNON	10.5%	12.0%	13.0%	Approx. 18.0%



Da evitare
Out of service

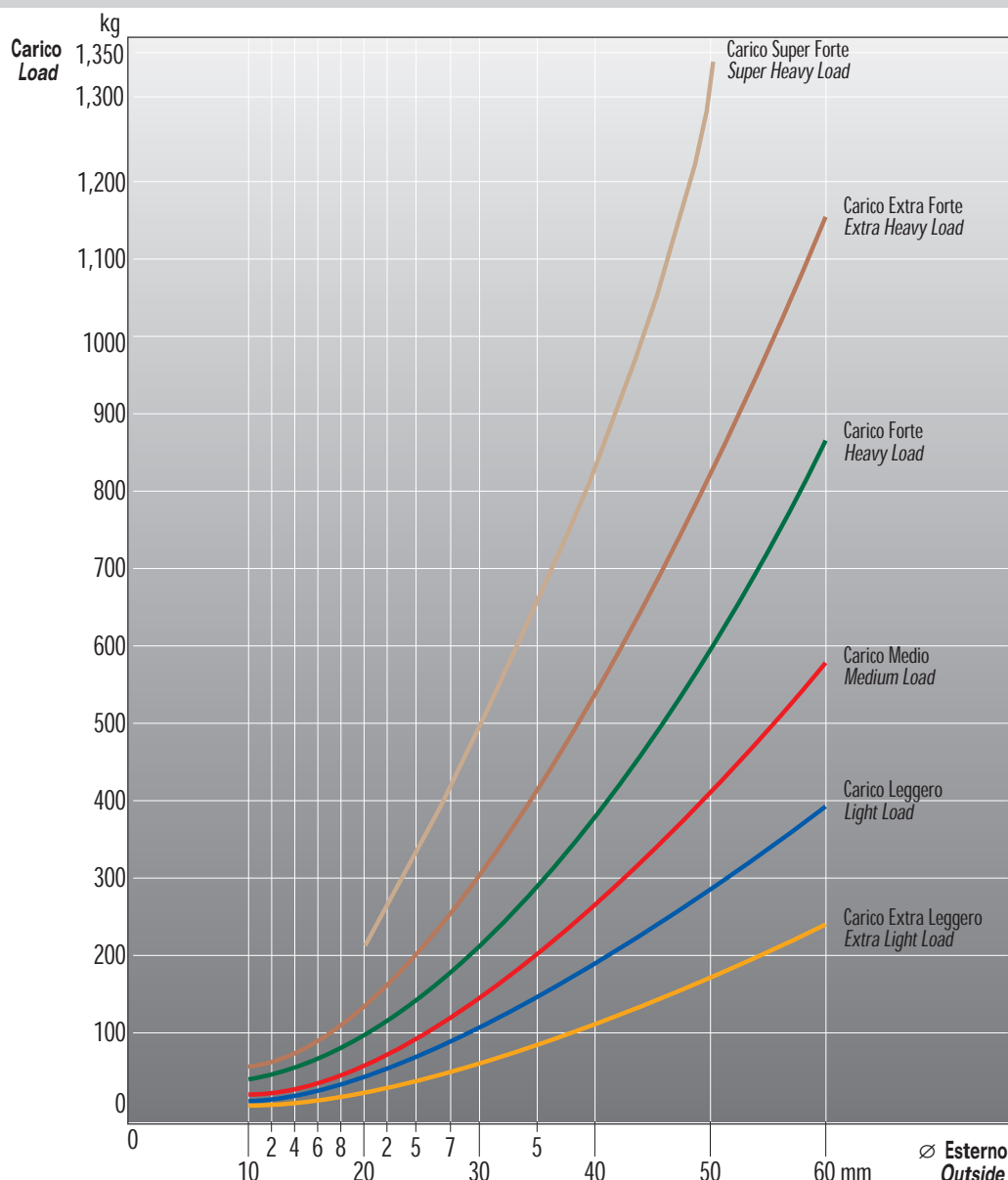
Tolleranze Tolerances



Ø Esterno Outside	Ø Interno Inside	Lunghezza libera / Free Length		Carico Load
		Inferiore / Below 50 mm	Maggiore / Over 50 mm	
+ 0 mm - 0.7 mm	+ 0.7 mm + 0.1 mm	± 0.5 mm	± 1%	±10%

Grafico
a 1 milione di cicli

Graph at
1 million cycles



Nella selezione e nell'uso delle molle raccomandiamo di:

When selecting and using the springs we recommend:

- 1 Scegliere le molle pi lunghe e di carico inferiore, per quanto consentito dalle esigenze di lavoro.
 - 2 Evitare assolutamente deflessioni totali (pre-carico + corsa di lavoro) superiori alla massima indicata a catalogo. Accertarsene anche quando si affilano gli utensili nello stampo.
 - 3 Precaricare sempre le molle, almeno in misura del 5% della lunghezza libera, con un minimo di 2 mm.
 - 4 Assicurare un piano di appoggio che permetta alle molle di lavorare in asse.
 - 5 Guidare le molle con una spina interna o con un alloggiamento profondo.
- 1 Select the lightest and longest springs working requirements allow.
 - 2 Operating travel must never exceed the max deflection indicated in the catalogue. Check this too when the die is sharpened.
 - 3 Preload each spring in the assembled tool at least by 5% of the free length, with a minimum of 2 mm.
 - 4 Provide for an even base for each spring.
 - 5 Provide proper guidance to avoid buckling.

Come ordinare
How to order



Per ordinare le molle del presente catalogo, e' sufficiente indicare il codice articolo e la quantita'.

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



Per esempio/ For example

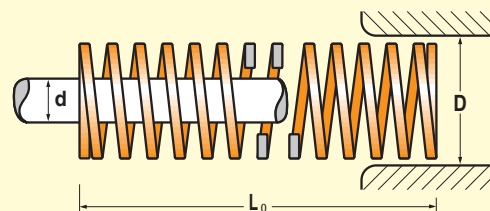
BH40100 nr. 50



E' un ordine per nr. 50 molle della serie Forte (Colore Verde) di diametro esterno 40 mm e lunghezza libera 100 mm.

It's an order for 50 springs of the heavy series (Green Color) for a 40 mm housing diameter and with a 100 mm free length.

BF

Carico Extra Leggero
Extra Light Load

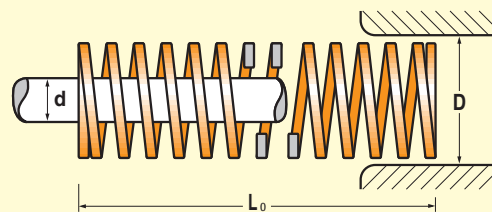
Codice Ctg. No.	D	d	L ₀	R	50%		45%		40%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BF10020	10	5	20	9.8	10.0	98 (10)	9.0	88 (9)	8.0	79 (8)
BF10025			25	7.8	12.5		11.2		10.0	
BF10030			30	6.6	15.0		13.5		12.0	
BF10035			35	5.6	17.5		15.7		14.0	
BF10040			40	4.9	20.0		18.0		16.0	
BF10045			45	4.3	22.5		20.2		18.0	
BF10050			50	3.9	25.0		22.5		20.0	
BF10055			55	3.5	27.5		24.7		22.0	
BF10060			60	3.2	30.0		27.0		24.0	
BF10065			65	3.0	32.5		29.2		26.0	
BF10070			70	2.8	35.0		31.5		28.0	
BF10075			75	2.6	37.5		33.7		30.0	
BF10080			80	2.5	40.0		36.0		32.0	
BF12020	12	6	20	13.7	10.0	137 (14)	9.0	123 (12.5)	8.0	108 (11)
BF12025			25	11.0	12.5		11.2		10.0	
BF12030			30	9.1	15.0		13.5		12.0	
BF12035			35	7.8	17.5		15.7		14.0	
BF12040			40	6.9	20.0		18.0		16.0	
BF12045			45	6.1	22.5		20.2		18.0	
BF12050			50	5.5	25.0		22.5		20.0	
BF12055			55	5.0	27.5		24.7		22.0	
BF12060			60	4.6	30.0		27.0		24.0	
BF12065			65	4.2	32.5		29.2		26.0	
BF12070			70	3.9	35.0		31.5		28.0	
BF12075			75	3.6	37.5		33.7		30.0	
BF12080			80	3.4	40.0		36.0		32.0	
BF14025	14	7	25	14.1	12.5	177 (18)	11.2	157 (16)	10.0	142 (14.5)
BF14030			30	11.8	15.0		13.5		12.0	
BF14035			35	10.1	17.5		15.7		14.0	
BF14040			40	8.8	20.0		18.0		16.0	
BF14045			45	7.8	22.5		20.2		18.0	
BF14050			50	7.1	25.0		22.5		20.0	
BF14055			55	6.4	27.5		24.7		22.0	
BF14060			60	5.9	30.0		27.0		24.0	
BF14065			65	5.4	32.5		29.2		26.0	
BF14070			70	5.0	35.0		31.5		28.0	
BF14075			75	4.7	37.5		33.7		30.0	
BF14080			80	4.4	40.0		36.0		32.0	
BF14090			90	3.9	45.0		40.5		36.0	
BF16025	16	8	25	16.5	12.5	206 (21)	11.2	186 (19)	10.0	167 (17)
BF16030			30	13.7	15.0		13.5		12.0	
BF16035			35	11.8	17.5		15.7		14.0	
BF16040			40	10.3	20.0		18.0		16.0	
BF16045			45	9.2	22.5		20.2		18.0	
BF16050			50	8.2	25.0		22.5		20.0	
BF16055			55	7.6	27.5		24.7		22.0	
BF16060			60	6.9	30.0		27.0		24.0	
BF16065			65	6.4	32.5		29.2		26.0	
BF16070			70	5.9	35.0		31.5		28.0	
BF16075			75	5.5	37.5		33.7		30.0	
BF16080			80	5.2	40.0		36.0		32.0	
BF16090			90	4.6	45.0		40.5		36.0	
BF16100	100	4.1	50.0	45.0	40.0					
			Cicli di lavoro Working cycles	300.000		500.000		1.000.000		



Codice Ctlig. No.	D	d	L ₀	R	50%		45%		40%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BF18025	18	9	25	20.4	12.5	255 (26)	11.2	226 (23)	10.0	206 (21)
BF18030			30	17.1	15.0		13.5		12.0	
BF18035			35	14.6	17.5		15.7		14.0	
BF18040			40	12.8	20.0		18.0		16.0	
BF18045			45	11.4	22.5		20.2		18.0	
BF18050			50	10.2	25.0		22.5		20.0	
BF18055			55	9.3	27.5		24.7		22.0	
BF18060			60	8.5	30.0		27.0		24.0	
BF18065			65	7.8	32.5		29.2		26.0	
BF18070			70	7.3	35.0		31.5		28.0	
BF18075			75	6.9	37.5		33.7		30.0	
BF18080			80	6.4	40.0		36.0		32.0	
BF18090			90	5.7	45.0		40.5		36.0	
BF18100			100	5.1	50.0		45.0		40.0	
BF20025	20	11	25	25.1	12.5	314 (32)	11.2	284 (29)	10.0	255 (26)
BF20030			30	20.9	15.0		13.5		12.0	
BF20035			35	18.0	17.5		15.7		14.0	
BF20040			40	15.7	20.0		18.0		16.0	
BF20045			45	13.9	22.5		20.2		18.0	
BF20050			50	12.6	25.0		22.5		20.0	
BF20055			55	11.4	27.5		24.7		22.0	
BF20060			60	10.5	30.0		27.0		24.0	
BF20065			65	9.6	32.5		29.2		26.0	
BF20070			70	8.9	35.0		31.5		28.0	
BF20075			75	8.3	37.5		33.7		30.0	
BF20080			80	7.8	40.0		36.0		32.0	
BF20090			90	7.0	45.0		40.5		36.0	
BF20100			100	6.3	50.0		45.0		40.0	
BF20125			125	5.0	62.5		56.2		50.0	
BF20150			150	4.2	75.0		67.5		60.0	
BF22025	22	11	25	31.4	12.5	392 (40)	11.2	353 (36)	10.0	314 (32)
BF22030			30	26.2	15.0		13.5		12.0	
BF22035			35	22.5	17.5		15.7		14.0	
BF22040			40	19.6	20.0		18.0		16.0	
BF22045			45	17.5	22.5		20.2		18.0	
BF22050			50	15.7	25.0		22.5		20.0	
BF22055			55	14.3	27.5		24.7		22.0	
BF22060			60	13.0	30.0		27.0		24.0	
BF22065			65	12.1	32.5		29.2		26.0	
BF22070			70	11.2	35.0		31.5		28.0	
BF22075			75	10.5	37.5		33.7		30.0	
BF22080			80	9.8	40.0		36.0		32.0	
BF22090			90	8.7	45.0		40.5		36.0	
BF22100			100	7.8	50.0		45.0		40.0	
BF22125			125	6.3	62.5		56.2		50.0	
BF22150			150	5.2	75.0		67.5		60.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

BF

Carico Extra Leggero
Extra Light Load

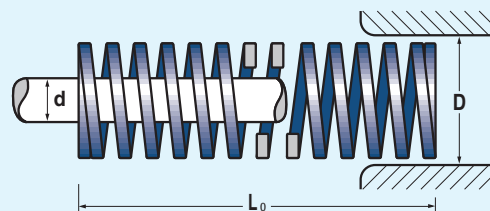


Codice Ctg. No.	D	d	L ₀	R	50%		45%		40%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BF25025	25	13.5	25	39.2	12.5	490 (50)	11.2	441 (45)	10.0	392 (40)
BF25030			30	32.7	15.0		13.5		12.0	
BF25035			35	28.0	17.5		15.7		14.0	
BF25040			40	24.5	20.0		18.0		16.0	
BF25045			45	21.8	22.5		20.2		18.0	
BF25050			50	19.6	25.0		22.5		20.0	
BF25055			55	17.9	27.5		24.7		22.0	
BF25060			60	16.4	30.0		27.0		24.0	
BF25065			65	15.1	32.5		29.2		26.0	
BF25070			70	14.0	35.0		31.5		28.0	
BF25075			75	13.0	37.5		33.7		30.0	
BF25080			80	12.3	40.0		36.0		32.0	
BF25090			90	10.9	45.0		40.5		36.0	
BF25100			100	9.8	50.0		45.0		40.0	
BF25125			125	7.8	62.5		56.2		50.0	
BF25150			150	6.6	75.0		67.5		60.0	
BF25175			175	5.6	87.5		78.7		70.0	
BF27025	27	13.5	25	47.1	12.5	588 (60)	11.2	530 (54)	10.0	471 (48)
BF27030			30	39.2	15.0		13.5		12.0	
BF27035			35	33.6	17.5		15.7		14.0	
BF27040			40	29.4	20.0		18.0		16.0	
BF27045			45	26.2	22.5		20.2		18.0	
BF27050			50	23.5	25.0		22.5		20.0	
BF27055			55	21.4	27.5		24.7		22.0	
BF27060			60	19.6	30.0		27.0		24.0	
BF27065			65	18.1	32.5		29.2		26.0	
BF27070			70	16.8	35.0		31.5		28.0	
BF27075			75	15.7	37.5		33.7		30.0	
BF27080			80	14.7	40.0		36.0		32.0	
BF27090			90	13.0	45.0		40.5		36.0	
BF27100			100	11.8	50.0		45.0		40.0	
BF27125			125	9.4	62.5		56.2		50.0	
BF27150			150	7.8	75.0		67.5		60.0	
BF27175			175	6.8	87.5		78.7		70.0	
BF30025	30	16	25	56.9	12.5	706 (72)	11.2	637 (65)	10.0	569 (58)
BF30030			30	47.1	15.0		13.5		12.0	
BF30035			35	40.5	17.5		15.7		14.0	
BF30040			40	35.3	20.0		18.0		16.0	
BF30045			45	31.5	22.5		20.2		18.0	
BF30050			50	28.3	25.0		22.5		20.0	
BF30055			55	25.8	27.5		24.7		22.0	
BF30060			60	23.5	30.0		27.0		24.0	
BF30065			65	21.8	32.5		29.2		26.0	
BF30070			70	20.1	35.0		31.5		28.0	
BF30075			75	18.9	37.5		33.7		30.0	
BF30080			80	17.7	40.0		36.0		32.0	
BF30090			90	15.7	45.0		40.5		36.0	
BF30100			100	14.1	50.0		45.0		40.0	
BF30125			125	11.3	62.5		56.2		50.0	
BF30150			150	9.4	75.0		67.5		60.0	
BF30175			175	8.0	87.5		78.7		70.0	
BF30200			200	7.1	100.0		90.0		80.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	



Codice Ctlig. No.	D	d	L ₀	R	50%		45%		40%						
	Sede Housing ∅ mm	Spina Rod ∅ mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)					
BF35040	35	19	40	48.1	20.0	961 (98)	18.0	863 (88)	16.0	765 (78)					
BF35045			45	42.8	22.5		20.2								
BF35050			50	38.5	25.0		22.5		20.0						
BF35055			55	34.9	27.5		24.7		22.0						
BF35060			60	32.0	30.0		27.0		24.0						
BF35065			65	29.6	32.5		29.2		26.0						
BF35070			70	27.5	35.0		31.5		28.0						
BF35075			75	25.6	37.5		33.7		30.0						
BF35080			80	24.0	40.0		36.0		32.0						
BF35090			90	21.3	45.0		40.5		36.0						
BF35100			100	19.2	50.0		45.0		40.0						
BF35125			125	15.4	62.5		56.2		50.0						
BF35150			150	12.8	75.0		67.5		60.0						
BF35175			175	11.0	87.5		78.7		70.0						
BF35200			200	9.6	100.0		90.0		80.0						
BF40040	40	22	40	62.6	20.0	1255 (128)	18.0	1128 (115)	16.0	1000 (102)					
BF40050			50	50.2	25.0		22.5		20.0						
BF40060			60	41.8	30.0		27.0		24.0						
BF40070			70	35.8	35.0		31.5		28.0						
BF40080			80	31.4	40.0		36.0		32.0						
BF40090			90	27.9	45.0		40.5		36.0						
BF40100			100	25.1	50.0		45.0		40.0						
BF40125			125	20.0	62.5		56.2		50.0						
BF40150			150	16.7	75.0		67.5		60.0						
BF40175			175	14.3	87.5		78.7		70.0						
BF40200			200	12.6	100.0		90.0		80.0						
BF40250			250	10.0	125.0		112.5		100.0						
BF50050			50	27.5	50		78.5		25.0		1961 (200)	22.5	1765 (180)	20.0	1569 (160)
BF50060					60		65.3		30.0			27.0		24.0	
BF50070					70		56.0		35.0			31.5		28.0	
BF50080	80	49.1			40.0	36.0	32.0								
BF50090	90	43.6			45.0	40.5	36.0								
BF50100	100	39.2			50.0	45.0	40.0								
BF50125	125	31.4			62.5	56.2	50.0								
BF50150	150	26.1			75.0	67.5	60.0								
BF50175	175	22.4			87.5	78.7	70.0								
BF50200	200	19.6			100.0	90.0	80.0								
BF50250	250	15.7			125.0	112.5	100.0								
BF50300	300	13.0			150.0	135.0	120.0								
BF60060	60	33			60	94.1	30.0	2824 (288)	27.0	2540 (259)		24.0		2256 (230)	
BF60070					70	80.6	35.0		31.5			28.0			
BF60080					80	70.5	40.0		36.0			32.0			
BF60090			90	62.8	45.0	40.5	36.0								
BF60100			100	56.5	50.0	45.0	40.0								
BF60125			125	45.1	62.5	56.2	50.0								
BF60150			150	37.7	75.0	67.5	60.0								
BF60175			175	32.3	87.5	78.7	70.0								
BF60200			200	28.3	100.0	90.0	80.0								
BF60250			250	22.6	125.0	112.5	100.0								
BF60300			300	18.8	150.0	135.0	120.0								
BF60350			350	16.2	175.0	157.5	140.0								
BF60400			400	14.1	200.0	180.0	160.0								
1 N = 0.102 kg 1 kg = 9.81 N			Cicli di lavoro Working cycles		300.000		500.000		1.000.000						

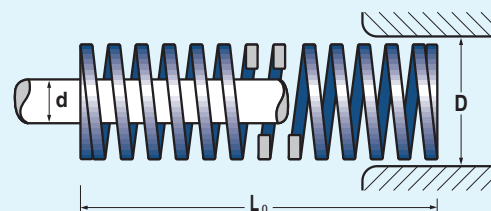
BL

Carico Leggero
Light Load

Codice Ctg. No.	D	d	L ₀	R	40%		36%		32%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BL10020	10	5	20	17.8	8.0	142 (14.5)	7.2	128 (13)	6.4	113 (11.5)
BL10025			25	14.2	10.0		9.0		8.0	
BL10030			30	11.9	12.0		10.8		9.6	
BL10035			35	10.1	14.0		12.6		11.2	
BL10040			40	8.8	16.0		14.4		12.8	
BL10045			45	7.8	18.0		16.2		14.4	
BL10050			50	7.2	20.0		18.0		16.0	
BL10055			55	6.5	22.0		19.8		17.6	
BL10060			60	5.9	24.0		21.6		19.2	
BL10065			65	5.4	26.0		23.4		20.8	
BL10070			70	5.0	28.0		25.2		22.4	
BL10075			75	4.7	30.0		27.0		24.0	
BL10080			80	4.4	32.0		28.8		25.6	
BL12020	12	6	20	25.8	8.0	206 (21)	7.2	186 (19)	6.4	167 (17)
BL12025			25	20.6	10.0		9.0		8.0	
BL12030			30	17.2	12.0		10.8		9.6	
BL12035			35	14.7	14.0		12.6		11.2	
BL12040			40	12.9	16.0		14.4		12.8	
BL12045			45	11.5	18.0		16.2		14.4	
BL12050			50	10.3	20.0		18.0		16.0	
BL12055			55	9.4	22.0		19.8		17.6	
BL12060			60	8.6	24.0		21.6		19.2	
BL12065			65	7.9	26.0		23.4		20.8	
BL12070			70	7.4	28.0		25.2		22.4	
BL12075			75	6.9	30.0		27.0		24.0	
BL12080			80	6.5	32.0		28.8		25.6	
BL14025	14	7	25	27.5	10.0	275 (28)	9.0	245 (25)	8.0	216 (22)
BL14030			30	23.0	12.0		10.8		9.6	
BL14035			35	19.6	14.0		12.6		11.2	
BL14040			40	17.2	16.0		14.4		12.8	
BL14045			45	15.3	18.0		16.2		14.4	
BL14050			50	13.7	20.0		18.0		16.0	
BL14055			55	12.5	22.0		19.8		17.6	
BL14060			60	11.5	24.0		21.6		19.2	
BL14065			65	10.6	26.0		23.4		20.8	
BL14070			70	9.8	28.0		25.2		22.4	
BL14075			75	9.1	30.0		27.0		24.0	
BL14080			80	8.5	32.0		28.8		25.6	
BL14090			90	7.6	36.0		32.4		28.8	
BL16025	16	8	25	34.3	10.0	343 (35)	9.0	314 (32)	8.0	275 (28)
BL16030			30	28.6	12.0		10.8		9.6	
BL16035			35	24.5	14.0		12.6		11.2	
BL16040			40	21.5	16.0		14.4		12.8	
BL16045			45	19.1	18.0		16.2		14.4	
BL16050			50	17.2	20.0		18.0		16.0	
BL16055			55	15.7	22.0		19.8		17.6	
BL16060			60	14.3	24.0		21.6		19.2	
BL16065			65	13.2	26.0		23.4		20.8	
BL16070			70	12.3	28.0		25.2		22.4	
BL16075			75	11.5	30.0		27.0		24.0	
BL16080			80	10.8	32.0		28.8		25.6	
BL16090			90	9.6	36.0		32.4		28.8	
BL16100	100	8.6	40.0	36.0	32.0					
			Cicli di lavoro Working cycles	300.000		500.000		1.000.000		

Codice Ctlg. No.	D	d	L ₀	R	40%		36%		32%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BL18025	18	9	25	42.2	10.0	422 (43)	9.0	282 (39)	8.0	333 (34)
BL18030			30	35.1	12.0		10.8		9.6	
BL18035			35	30.1	14.0		12.6		11.2	
BL18040			40	26.4	16.0		14.4		12.8	
BL18045			45	23.4	18.0		16.2		14.4	
BL18050			50	21.1	20.0		18.0		16.0	
BL18055			55	19.2	22.0		19.8		17.6	
BL18060			60	17.6	24.0		21.6		19.2	
BL18065			65	16.3	26.0		23.4		20.8	
BL18070			70	15.1	28.0		25.2		22.4	
BL18075			75	14.1	30.0		27.0		24.0	
BL18080			80	13.2	32.0		28.8		25.6	
BL18090			90	11.8	36.0		32.4		28.8	
BL18100			100	10.5	40.0		36.0		32.0	
BL20025	20	10	25	53.0	10.0	530 (54)	9.0	481 (49)	8.0	422 (43)
BL20030			30	44.1	12.0		10.8		9.6	
BL20035			35	37.9	14.0		12.6		11.2	
BL20040			40	33.2	16.0		14.4		12.8	
BL20045			45	29.4	18.0		16.2		14.4	
BL20050			50	26.5	20.0		18.0		16.0	
BL20055			55	24.0	22.0		19.8		17.6	
BL20060			60	22.1	24.0		21.6		19.2	
BL20065			65	20.4	26.0		23.4		20.8	
BL20070			70	18.9	28.0		25.2		22.4	
BL20075			75	17.7	30.0		27.0		24.0	
BL20080			80	16.6	32.0		28.8		25.6	
BL20090			90	14.7	36.0		32.4		28.8	
BL20100			100	13.2	40.0		36.0		32.0	
BL20125			125	10.6	50.0		45.0		40.0	
BL20150			150	8.8	60.0		54.0		48.0	
BL22025	22	11	25	65.7	10.0	657 (67)	9.0	588 (60)	8.0	530 (54)
BL22030			30	54.9	12.0		10.8		9.6	
BL22035			35	47.1	14.0		12.6		11.2	
BL22040			40	41.2	16.0		14.4		12.8	
BL22045			45	36.5	18.0		16.2		14.4	
BL22050			50	32.9	20.0		18.0		16.0	
BL22055			55	29.9	22.0		19.8		17.6	
BL22060			60	27.5	24.0		21.6		19.2	
BL22065			65	25.3	26.0		23.4		20.8	
BL22070			70	23.5	28.0		25.2		22.4	
BL22075			75	21.9	30.0		27.0		24.0	
BL22080			80	20.6	32.0		28.8		25.6	
BL22090			90	18.2	36.0		32.4		28.8	
BL22100			100	16.5	40.0		36.0		32.0	
BL22125			125	13.1	50.0		45.0		40.0	
BL22150			150	11.0	60.0		54.0		48.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

BL

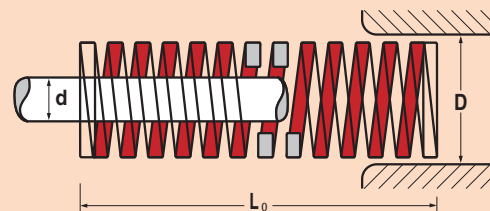
Carico Leggero
Light Load

Codice Ctg. No.	D	d	L ₀	R	40%		36%		32%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BL25025	25	13	25	82.4	10.0	824 (84)	9.0	745 (76)	8.0	657 (67)
BL25030			30	68.7	12.0		10.8		9.6	
BL25035			35	58.9	14.0		12.6		11.2	
BL25040			40	51.5	16.0		14.4		12.8	
BL25045			45	45.8	18.0		16.2		14.4	
BL25050			50	41.2	20.0		18.0		16.0	
BL25055			55	37.5	22.0		19.8		17.6	
BL25060			60	34.3	24.0		21.6		19.2	
BL25065			65	31.7	26.0		23.4		20.8	
BL25070			70	29.4	28.0		25.2		22.4	
BL25075			75	27.5	30.0		27.0		24.0	
BL25080			80	25.8	32.0		28.8		25.6	
BL25090			90	22.9	36.0		32.4		28.8	
BL25100			100	20.6	40.0		36.0		32.0	
BL25125			125	16.5	50.0		45.0		40.0	
BL25150			150	13.7	60.0		54.0		48.0	
BL25175			175	11.8	70.0		63.0		56.0	
BL27025	27	13.5	25	98.1	10.0	981 (100)	9.0	883 (90)	8.0	785 (80)
BL27030			30	81.7	12.0		10.8		9.6	
BL27035			35	70.0	14.0		12.6		11.2	
BL27040			40	61.3	16.0		14.4		12.8	
BL27045			45	54.5	18.0		16.2		14.4	
BL27050			50	49.1	20.0		18.0		16.0	
BL27055			55	44.6	22.0		19.8		17.6	
BL27060			60	40.9	24.0		21.6		19.2	
BL27065			65	37.8	26.0		23.4		20.8	
BL27070			70	35.0	28.0		25.2		22.4	
BL27075			75	32.7	30.0		27.0		24.0	
BL27080			80	30.7	32.0		28.8		25.6	
BL27090			90	27.3	36.0		32.4		28.8	
BL27100			100	24.5	40.0		36.0		32.0	
BL27125			125	19.6	50.0		45.0		40.0	
BL27150			150	16.4	60.0		54.0		48.0	
BL27175			175	14.0	70.0		63.0		56.0	
BL30025	30	15	25	118.8	10.0	1187 (121)	9.0	1069 (109)	8.0	951 (97)
BL30030			30	98.9	12.0		10.8		9.6	
BL30035			35	84.9	14.0		12.6		11.2	
BL30040			40	74.2	16.0		14.4		12.8	
BL30045			45	66.0	18.0		16.2		14.4	
BL30050			50	59.4	20.0		18.0		16.0	
BL30055			55	54.0	22.0		19.8		17.6	
BL30060			60	49.4	24.0		21.6		19.2	
BL30065			65	45.6	26.0		23.4		20.8	
BL30070			70	42.4	28.0		25.2		22.4	
BL30075			75	39.5	30.0		27.0		24.0	
BL30080			80	37.1	32.0		28.8		25.6	
BL30090			90	33.0	36.0		32.4		28.8	
BL30100			100	29.6	40.0		36.0		32.0	
BL30125			125	23.7	50.0		45.0		40.0	
BL30150			150	19.7	60.0		54.0		48.0	
BL30175			175	16.9	70.0		63.0		56.0	
BL30200			200	14.8	80.0		72.0		64.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

Codice Ctg. No.	D	d	L ₀	R	40%		36%		32%						
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)					
BL35040	35	17.5	40	101.1	16.0	1618 (165)	14.4	1461 (149)	12.8	1295 (132)					
BL35045			45	90.0	18.0		16.2		14.4						
BL35050			50	80.9	20.0		18.0		16.0						
BL35055			55	73.6	22.0		19.8		17.6						
BL35060			60	67.4	24.0		21.6		19.2						
BL35065			65	62.3	26.0		23.4		20.8						
BL35070			70	57.8	28.0		25.2		22.4						
BL35075			75	54.0	30.0		27.0		24.0						
BL35080			80	50.5	32.0		28.8		25.6						
BL35090			90	44.9	36.0		32.4		28.8						
BL35100			100	40.4	40.0		36.0		32.0						
BL35125			125	32.4	50.0		45.0		40.0						
BL35150			150	27.0	60.0		54.0		48.0						
BL35175			175	23.1	70.0		63.0		56.0						
BL35200			200	20.2	80.0		72.0		64.0						
BL40040	40	20	40	132.4	16.0	2118 (216)	14.4	1902 (194)	12.8	1697 (173)					
BL40050			50	105.9	20.0		18.0		16.0						
BL40060			60	88.3	24.0		21.6		19.2						
BL40070			70	75.6	28.0		25.2		22.4						
BL40080			80	66.2	32.0		28.8		25.6						
BL40090			90	58.9	36.0		32.4		28.8						
BL40100			100	53.0	40.0		36.0		32.0						
BL40125			125	42.4	50.0		45.0		40.0						
BL40150			150	35.3	60.0		54.0		48.0						
BL40175			175	30.2	70.0		63.0		56.0						
BL40200			200	26.5	80.0		72.0		64.0						
BL40250			250	21.2	100.0		90.0		80.0						
BL50050			50	25	50		165.7		20.0		3315 (338)	18.0	2981 (304)	16.0	2648 (270)
BL50060					60		138.1		24.0			21.6		19.2	
BL50070					70		118.4		28.0			25.2		22.4	
BL50080	80	103.6			32.0	28.8	25.6								
BL50090	90	92.0			36.0	32.4	28.8								
BL50100	100	82.9			40.0	36.0	32.0								
BL50125	125	66.3			50.0	45.0	40.0								
BL50150	150	55.2			60.0	54.0	48.0								
BL50175	175	47.3			70.0	63.0	56.0								
BL50200	200	41.4			80.0	72.0	64.0								
BL50250	250	33.2			100.0	90.0	80.0								
BL50300	300	27.6			120.0	108.0	96.0								
BL60060	60	30			60	198.7	24.0	4766 (486)	21.6	4286 (437)		19.2		3815 (389)	
BL60070					70	170.2	28.0		25.2			22.4			
BL60080					80	148.9	32.0		28.8			25.6			
BL60090			90	132.4	36.0	32.4	28.8								
BL60100			100	119.2	40.0	36.0	32.0								
BL60125			125	95.4	50.0	45.0	40.0								
BL60150			150	79.5	60.0	54.0	48.0								
BL60175			175	68.1	70.0	63.0	56.0								
BL60200			200	59.5	80.0	72.0	64.0								
BL60250			250	47.7	100.0	90.0	80.0								
BL60300			300	39.7	120.0	108.0	96.0								
			Cicli di lavoro Working cycles	300.000		500.000			1.000.000						

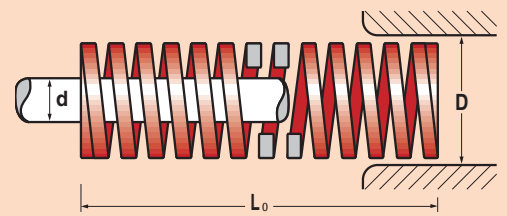
1 N = 0.102 kg
1 kg = 9.81 N

BM

Carico Medio
Medium Load

Codice Ctg. No.	D	d	L ₀	R	32%		28.8 %		25.6 %	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BM10020	10	5	20	30.7	6.4	196 (20)	5.8	177 (18)	5.1	157 (16)
BM10025			25	24.5	8.0		7.2		6.4	
BM10030			30	20.4	9.6		8.6		7.7	
BM10035			35	17.5	11.2		10.1		9.0	
BM10040			40	15.3	12.8		11.5		10.2	
BM10045			45	13.5	14.4		13.0		11.5	
BM10050			50	12.3	16.0		14.4		12.8	
BM10055			55	11.1	17.6		15.8		14.1	
BM10060			60	10.2	19.2		17.3		15.4	
BM10065			65	9.4	20.8		18.7		16.6	
BM10070	12	6	70	8.7	22.4	284 (29)	20.2	255 (26)	17.9	226 (23)
BM10075			75	8.1	24.0		21.6		19.2	
BM10080			80	7.7	25.6		23.0		20.5	
BM12020			20	44.4	6.4		5.8		5.1	
BM12025			25	35.5	8.0		7.2		6.4	
BM12030			30	29.6	9.6		8.6		7.7	
BM12035			35	25.3	11.2		10.1		9.0	
BM12040			40	22.3	12.8		11.5		10.2	
BM12045	14	7	45	19.7	14.4	382 (39)	13.0	343 (35)	11.5	304 (31)
BM12050			50	17.8	16.0		14.4		12.8	
BM12055			55	16.1	17.6		15.8		14.1	
BM12060			60	14.8	19.2		17.3		15.4	
BM12065			65	13.6	20.8		18.7		16.6	
BM12070			70	12.7	22.4		20.2		17.9	
BM12075			75	11.8	24.0		21.6		19.2	
BM12080			80	11.1	25.6		23.0		20.5	
BM14025	16	8	25	47.8	8.0	500 (51)	7.2	451 (46)	6.4	402 (41)
BM14030			30	39.8	9.6		8.6		7.7	
BM14035			35	34.1	11.2		10.1		9.0	
BM14040			40	29.8	12.8		11.5		10.2	
BM14045			45	26.5	14.4		13.0		11.5	
BM14050			50	23.8	16.0		14.4		12.8	
BM14055			55	21.7	17.6		15.8		14.1	
BM14060			60	19.9	19.2		17.3		15.4	
BM14065			65	18.3	20.8		18.7		16.6	
BM14070			70	17.1	22.4		20.2		17.9	
BM14075	16	8	75	15.9	24.0	500 (51)	21.6	451 (46)	19.2	402 (41)
BM14080			80	14.9	25.6		23.0		20.5	
BM14090			90	13.2	28.8		25.9		23.0	
BM16025			25	62.7	8.0		7.2		6.4	
BM16030			30	52.2	9.6		8.6		7.7	
BM16035			35	44.6	11.2		10.1		9.0	
BM16040			40	39.0	12.8		11.5		10.2	
BM16045			45	34.7	14.4		13.0		11.5	
BM16050	16	8	50	31.2	16.0	500 (51)	14.4	451 (46)	12.8	402 (41)
BM16055			55	28.4	17.6		15.8		14.1	
BM16060			60	26.0	19.2		17.3		15.4	
BM16065			65	24.0	20.8		18.7		16.6	
BM16070			70	22.3	22.4		20.2		17.9	
BM16075			75	20.7	24.0		21.6		19.2	
BM16080			80	19.5	25.6		23.0		20.5	
BM16090			90	17.4	28.8		25.9		23.0	
BM16100			100	15.6	32.0		28.8		25.6	
			Cicli di lavoro Working cycles	300.000		500.000		1.000.000		

Codice Ctlig. No.	D	d	L ₀	R	32%		28.8 %		25.6 %	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BM18025	18	9	25	79.7	8.0	637 (65)	7.2	569 (58)	6.4	510 (52)
BM18030			30	66.4	9.6		8.6		7.7	
BM18035			35	56.9	11.2		10.1		9.0	
BM18040			40	49.7	12.8		11.5		10.2	
BM18045			45	44.2	14.4		13.0		11.5	
BM18050			50	39.8	16.0		14.4		12.8	
BM18055			55	36.2	17.6		15.8		14.1	
BM18060			60	33.2	19.2		17.3		15.4	
BM18065			65	30.6	20.8		18.7		16.6	
BM18070			70	28.4	22.4		20.2		17.9	
BM18075			75	26.5	24.0		21.6		19.2	
BM18080			80	24.8	25.6		23.0		20.5	
BM18090			90	22.1	28.8		25.9		23.0	
BM18100			100	19.8	32.0		28.8		25.6	
BM20025	20	10	25	98.1	8.0	785 (80)	7.2	706 (72)	6.4	628 (64)
BM20030			30	81.7	9.6		8.6		7.7	
BM20035			35	70.0	11.2		10.1		9.0	
BM20040			40	61.3	12.8		11.5		10.2	
BM20045			45	54.4	14.4		13.0		11.5	
BM20050			50	49.1	16.0		14.4		12.8	
BM20055			55	44.5	17.6		15.8		14.1	
BM20060			60	40.8	19.2		17.3		15.4	
BM20065			65	37.7	20.8		18.7		16.6	
BM20070			70	35.0	22.4		20.2		17.9	
BM20075			75	32.7	24.0		21.6		19.2	
BM20080			80	30.6	25.6		23.0		20.5	
BM20090			90	27.2	28.8		25.9		23.0	
BM20100			100	24.5	32.0		28.8		25.6	
BM20125			125	19.6	40.0		36.0		32.0	
BM20150			150	16.4	48.0		43.2		38.4	
BM22025	22	11	25	119.0	8.0	951 (97)	7.2	853 (87)	6.4	755 (77)
BM22030			30	99.1	9.6		8.6		7.7	
BM22035			35	84.9	11.2		10.1		9.0	
BM22040			40	74.3	12.8		11.5		10.2	
BM22045			45	66.1	14.4		13.0		11.5	
BM22050			50	59.4	16.0		14.4		12.8	
BM22055			55	54.0	17.6		15.8		14.1	
BM22060			60	49.5	19.2		17.3		15.4	
BM22065			65	45.7	20.8		18.7		16.6	
BM22070			70	42.5	22.4		20.2		17.9	
BM22075			75	39.6	24.0		21.6		19.2	
BM22080			80	37.1	25.6		23.0		20.5	
BM22090			90	33.0	28.8		25.9		23.0	
BM22100			100	29.7	32.0		28.8		25.6	
BM22125			125	23.7	40.0		36.0		32.0	
BM22150			150	19.7	48.0		43.2		38.4	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

BM**Carico Medio**
Medium Load

Codice Ctg. No.	D	d	L ₀	R	32 %		28.8 %		25.6 %	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BM25025	25	12.5	25	153.3	8.0	1226 (125)	7.2	1098 (112)	6.4	981 (100)
BM25030			30	127.7	9.6		8.6		7.7	
BM25035			35	109.9	11.2		10.1		9.0	
BM25040			40	95.7	12.8		11.5		10.2	
BM25045			45	85.2	14.4		13.0		11.5	
BM25050			50	76.6	16.0		14.4		12.8	
BM25055			55	69.7	17.6		15.8		14.1	
BM25060			60	63.9	19.2		17.3		15.4	
BM25065			65	58.9	20.8		18.7		16.6	
BM25070			70	54.7	22.4		20.2		17.9	
BM25075			75	51.1	24.0		21.6		19.2	
BM25080			80	47.9	25.6		23.0		20.5	
BM25090			90	42.6	28.8		25.9		23.0	
BM25100			100	38.3	32.0		28.8		25.6	
BM25125			125	30.6	40.0		36.0		32.0	
BM25150			150	25.5	48.0		43.2		38.4	
BM25175			175	21.9	56.0		50.4		44.8	
BM27025	27	13.5	25	179.0	8.0	1432 (146)	7.2	1285 (131)	6.4	1147 (117)
BM27030			30	149.1	9.6		8.6		7.7	
BM27035			35	127.9	11.2		10.1		9.0	
BM27040			40	111.8	12.8		11.5		10.2	
BM27045			45	99.5	14.4		13.0		11.5	
BM27050			50	89.5	16.0		14.4		12.8	
BM27055			55	81.4	17.6		15.8		14.1	
BM27060			60	74.6	19.2		17.3		15.4	
BM27065			65	68.7	20.8		18.7		16.6	
BM27070			70	63.9	22.4		20.2		17.9	
BM27075			75	59.6	24.0		21.6		19.2	
BM27080			80	55.9	25.6		23.0		20.5	
BM27090			90	49.6	28.8		25.9		23.0	
BM27100			100	44.7	32.0		28.8		25.6	
BM27125			125	35.8	40.0		36.0		32.0	
BM27150			150	29.8	48.0		43.2		38.4	
BM27175			175	25.6	56.0		50.4		44.8	
BM30025	30	15	25	220.7	8.0	1765 (180)	7.2	1579 (161)	6.4	1412 (144)
BM30030			30	183.9	9.6		8.6		7.7	
BM30035			35	157.9	11.2		10.1		9.0	
BM30040			40	137.9	12.8		11.5		10.2	
BM30045			45	122.6	14.4		13.0		11.5	
BM30050			50	110.4	16.0		14.4		12.8	
BM30055			55	100.4	17.6		15.8		14.1	
BM30060			60	91.9	19.2		17.3		15.4	
BM30065			65	84.9	20.8		18.7		16.6	
BM30070			70	78.8	22.4		20.2		17.9	
BM30075			75	73.6	24.0		21.6		19.2	
BM30080			80	69.0	25.6		23.0		20.5	
BM30090			90	61.3	28.8		25.9		23.0	
BM30100			100	55.1	32.0		28.8		25.6	
BM30125			125	44.1	40.0		36.0		32.0	
BM30150			150	36.8	48.0		43.2		38.4	
BM30175			175	31.5	56.0		50.4		44.8	
BM30200			200	27.6	64.0		57.6		51.2	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

Codice Ctlg. No.	D	d	L ₀	R	32%		28.8 %		25.6 %						
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)					
BM35040	35	17.5	40	187.8	12.8	2403 (245)	11.5	2157 (220)	10.2	1912 (195)					
BM35045			45	166.9	14.4		13.0		11.5						
BM35050			50	150.2	16.0		14.4		12.8						
BM35055			55	136.6	17.6		15.8		14.1						
BM35060			60	125.2	19.2		17.3		15.4						
BM35065			65	115.5	20.8		18.7		16.6						
BM35070			70	107.2	22.4		20.2		17.9						
BM35075			75	100.1	24.0		21.6		19.2						
BM35080			80	93.9	25.6		23.0		20.5						
BM35090			90	83.4	28.8		25.9		23.0						
BM35100			100	75.0	32.0		28.8		25.6						
BM35125			125	60.0	40.0		36.0		32.0						
BM35150			150	50.0	48.0		43.2		38.4						
BM35175			175	42.9	56.0		50.4		44.8						
BM35200			200	37.5	64.0		57.6		51.2						
BM40040	40	20	40	245.4	12.8	3138 (320)	11.5	2824 (288)	10.2	2511 (256)					
BM40050			50	196.2	16.0		14.4		12.8						
BM40060			60	162.8	19.2		17.3		15.4						
BM40070			70	140.1	22.4		20.2		17.9						
BM40080			80	122.6	25.6		23.0		20.5						
BM40090			90	109.0	28.8		25.9		23.0						
BM40100			100	98.1	32.0		28.8		25.6						
BM40125			125	78.5	40.0		36.0		32.0						
BM40150			150	65.3	48.0		43.2		38.4						
BM40175			175	56.0	56.0		50.4		44.8						
BM40200			200	49.1	64.0		57.6		51.2						
BM40250			250	39.2	80.0		72.0		64.0						
BM50050			50	25	50		306.6		16.0		4903 (500)	14.4	4413 (450)	12.8	3922 (400)
BM50060					60		255.5		19.2			17.3		15.4	
BM50070					70		219.0		22.4			20.2		17.9	
BM50080	80	191.6			25.6	23.0	20.5								
BM50090	90	170.3			28.8	25.9	23.0								
BM50100	100	153.2			32.0	28.8	25.6								
BM50125	125	122.6			40.0	36.0	32.0								
BM50150	150	102.1			48.0	43.2	38.4								
BM50175	175	87.5			56.0	50.4	44.8								
BM50200	200	76.6			64.0	57.6	51.2								
BM50250	250	61.3			80.0	72.0	64.0								
BM50300	300	51.0			96.0	86.4	76.8								
BM60060	60	30			60	366.9	19.2	7061 (720)	17.3	6355 (648)		15.4		5639 (575)	
BM60070					70	314.9	22.4		20.2			17.9			
BM60080					80	275.9	25.6		23.0			20.5			
BM60090			90	245.3	28.8	25.9	23.0								
BM60100			100	220.7	32.0	28.8	25.6								
BM60125			125	176.6	40.0	36.0	32.0								
BM60150			150	147.2	48.0	43.2	38.4								
BM60175			175	126.1	56.0	50.4	44.8								
BM60200			200	110.4	64.0	57.6	51.2								
BM60250			250	88.3	80.0	72.0	64.0								
BM60300			300	73.6	96.0	86.4	76.8								
			Cicli di lavoro Working cycles	300.000		500.000			1.000.000						

1 N = 0.102 kg
1 kg = 9.81 N

BH

Carico Forte
Heavy Load

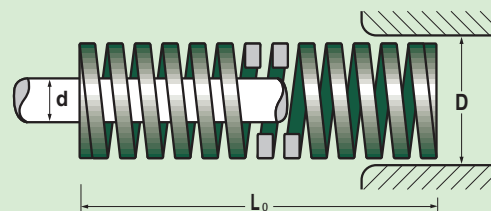
Codice Ctg. No.	D	d	L ₀	R	24%		21.6 %		19.2 %	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BH10020	10	5	20	61.3	4.8	294 (30)	4.3	265 (27)	3.8	235 (24)
BH10025			25	49.1	6.0		5.4		4.8	
BH10030			30	40.8	7.2		6.5		5.8	
BH10035			35	35.0	8.4		7.6		6.7	
BH10040			40	30.9	9.6		8.6		7.7	
BH10045			45	27.2	10.8		9.7		8.6	
BH10050			50	24.5	12.0		10.8		9.6	
BH10055			55	22.3	13.2		11.9		10.6	
BH10060			60	20.4	14.4		13.0		11.5	
BH10065			65	18.8	15.6		14.0		12.5	
BH10070			70	17.6	16.8		15.1		13.4	
BH10075			75	16.4	18.0		16.2		14.4	
BH10080			80	15.3	19.2		17.3		15.4	
BH12020	12	6	20	87.3	4.8	422 (43)	4.3	373 (38)	3.8	333 (34)
BH12025			25	69.7	6.0		5.4		4.8	
BH12030			30	58.6	7.2		6.5		5.8	
BH12035			35	50.1	8.4		7.6		6.7	
BH12040			40	43.9	9.6		8.6		7.7	
BH12045			45	39.0	10.8		9.7		8.6	
BH12050			50	35.1	12.0		10.8		9.6	
BH12055			55	31.9	13.2		11.9		10.6	
BH12060			60	29.2	14.4		13.0		11.5	
BH12065			65	26.9	15.6		14.0		12.5	
BH12070			70	24.9	16.8		15.1		13.4	
BH12075			75	23.2	18.0		16.2		14.4	
BH12080			80	21.7	19.2		17.3		15.4	
BH14025	14	7	25	96.4	6.0	579 (59)	5.4	520 (53)	4.8	461 (47)
BH14030			30	80.3	7.2		6.5		5.8	
BH14035			35	68.9	8.4		7.6		6.7	
BH14040			40	60.2	9.6		8.6		7.7	
BH14045			45	53.6	10.8		9.7		8.6	
BH14050			50	48.2	12.0		10.8		9.6	
BH14055			55	43.8	13.2		11.9		10.6	
BH14060			60	40.1	14.4		13.0		11.5	
BH14065			65	37.1	15.6		14.0		12.5	
BH14070			70	34.4	16.8		15.1		13.4	
BH14075			75	32.1	18.0		16.2		14.4	
BH14080			80	30.1	19.2		17.3		15.4	
BH14090			90	26.7	21.6		19.4		17.3	
BH16025	16	8	25	125.9	6.0	755 (77)	5.4	677 (69)	4.8	608 (62)
BH16030			30	104.9	7.2		6.5		5.8	
BH16035			35	89.9	8.4		7.6		6.7	
BH16040			40	78.7	9.6		8.6		7.7	
BH16045			45	69.8	10.8		9.7		8.6	
BH16050			50	62.9	12.0		10.8		9.6	
BH16055			55	57.2	13.2		11.9		10.6	
BH16060			60	52.4	14.4		13.0		11.5	
BH16065			65	48.4	15.6		14.0		12.5	
BH16070			70	44.9	16.8		15.1		13.4	
BH16075			75	42.0	18.0		16.2		14.4	
BH16080			80	39.3	19.2		17.3		15.4	
BH16090			90	35.0	21.6		19.4		17.3	
BH16100	100	31.5	24.0	21.6	19.2					
			Cicli di lavoro Working cycles	300.000		500.000		1.000.000		

Codice Ctlg. No.	D	d	L ₀	R	24%		21.6%		19.2%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BH18025	18	9	25	158.5	6.0	951 (97)	5.4	853 (87)	4.8	765 (78)
BH18030			30	132.1	7.2		6.5		5.8	
BH18035			35	113.2	8.4		7.6		6.7	
BH18040			40	99.1	9.6		8.6		7.7	
BH18045			45	88.1	10.8		9.7		8.6	
BH18050			50	79.3	12.0		10.8		9.6	
BH18055			55	72.0	13.2		11.9		10.6	
BH18060			60	66.0	14.4		13.0		11.5	
BH18065			65	60.9	15.6		14.0		12.5	
BH18070			70	56.6	16.8		15.1		13.4	
BH18075			75	52.9	18.0		16.2		14.4	
BH18080			80	49.5	19.2		17.3		15.4	
BH18090			90	44.1	21.6		19.4		17.3	
BH18100			100	39.6	24.0		21.6		19.2	
BH20025	20	10	25	196.2	6.0	1177 (120)	5.4	1059 (108)	4.8	941 (96)
BH20030			30	163.4	7.2		6.5		5.8	
BH20035			35	140.1	8.4		7.6		6.7	
BH20040			40	122.6	9.6		8.6		7.7	
BH20045			45	109.0	10.8		9.7		8.6	
BH20050			50	98.1	12.0		10.8		9.6	
BH20055			55	89.2	13.2		11.9		10.6	
BH20060			60	81.7	14.4		13.0		11.5	
BH20065			65	75.4	15.6		14.0		12.5	
BH20070			70	70.0	16.8		15.1		13.4	
BH20075			75	65.4	18.0		16.2		14.4	
BH20080			80	61.3	19.2		17.3		15.4	
BH20090			90	54.4	21.6		19.4		17.3	
BH20100			100	49.1	24.0		21.6		19.2	
BH20125			125	39.2	30.0		27.0		24.0	
BH20150			150	32.7	36.0		32.4		28.8	
BH22025	22	11	25	237.0	6.0	1422 (145)	5.4	1275 (130)	4.8	1138 (116)
BH22030			30	197.5	7.2		6.5		5.8	
BH22035			35	169.7	8.4		7.6		6.7	
BH22040			40	148.1	9.6		8.6		7.7	
BH22045			45	131.5	10.8		9.7		8.6	
BH22050			50	118.5	12.0		10.8		9.6	
BH22055			55	107.3	13.2		11.9		10.6	
BH22060			60	98.7	14.4		13.0		11.5	
BH22065			65	91.0	15.6		14.0		12.5	
BH22070			70	84.7	16.8		15.1		13.4	
BH22075			75	78.9	18.0		16.2		14.4	
BH22080			80	74.1	19.2		17.3		15.4	
BH22090			90	65.8	21.6		19.4		17.3	
BH22100			100	59.3	24.0		21.6		19.2	
BH22125			125	47.4	30.0		27.0		24.0	
BH22150			150	39.4	36.0		32.4		28.8	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

BH

Carico Forte
Heavy Load

JIS B5012

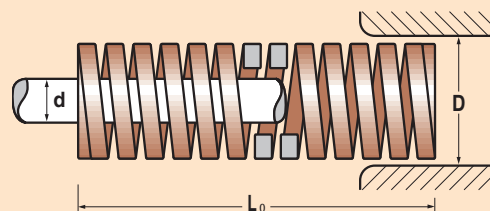


Codice Ctg. No.	D	d	L ₀	R	24%		21.6 %		19.2 %	
	Sede Housing mm ∅	Spina Rod mm ∅	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BH25025	25	12.5	25	306.1	6.0	1834 (187)	5.4	1657 (169)	4.8	1471 (150)
BH25030			30	254.8	7.2		6.5		5.8	
BH25035			35	219.5	8.4		7.6		6.7	
BH25040			40	191.0	9.6		8.6		7.7	
BH25045			45	170.7	10.8		9.7		8.6	
BH25050			50	152.8	12.0		10.8		9.6	
BH25055			55	139.3	13.2		11.9		10.6	
BH25060			60	127.3	14.4		13.0		11.5	
BH25065			65	117.7	15.6		14.0		12.5	
BH25070			70	109.2	16.8		15.1		13.4	
BH25075			75	102.0	18.0		16.2		14.4	
BH25080			80	95.5	19.2		17.3		15.4	
BH25090			90	84.9	21.6		19.4		17.3	
BH25100			100	76.4	24.0		21.6		19.2	
BH25125			125	61.1	30.0		27.0		24.0	
BH25150			150	51.0	36.0		32.4		28.8	
BH25175			175	43.8	42.0		37.8		33.6	
BH27025	27	13.5	25	357.1	6.0	2148 (219)	5.4	1932 (197)	4.8	1716 (175)
BH27030			30	298.3	7.2		6.5		5.8	
BH27035			35	257.0	8.4		7.6		6.7	
BH27040			40	223.8	9.6		8.6		7.7	
BH27045			45	199.1	10.8		9.7		8.6	
BH27050			50	179.0	12.0		10.8		9.6	
BH27055			55	161.9	13.2		11.9		10.6	
BH27060			60	149.1	14.4		13.0		11.5	
BH27065			65	137.3	15.6		14.0		12.5	
BH27070			70	127.8	16.8		15.1		13.4	
BH27075			75	118.7	18.0		16.2		14.4	
BH27080			80	111.8	19.2		17.3		15.4	
BH27090			90	99.4	21.6		19.4		17.3	
BH27100			100	89.5	24.0		21.6		19.2	
BH27125			125	71.6	30.0		27.0		24.0	
BH27150			150	59.6	36.0		32.4		28.8	
BH27175			175	51.1	42.0		37.8		33.6	
BH30025	30	15	25	441.5	6.0	2648 (270)	5.4	2380 (243)	4.8	2118 (216)
BH30030			30	367.9	7.2		6.5		5.8	
BH30035			35	316.5	8.4		7.6		6.7	
BH30040			40	275.9	9.6		8.6		7.7	
BH30045			45	245.3	10.8		9.7		8.6	
BH30050			50	220.7	12.0		10.8		9.6	
BH30055			55	200.1	13.2		11.9		10.6	
BH30060			60	183.9	14.4		13.0		11.5	
BH30065			65	169.7	15.6		14.0		12.5	
BH30070			70	157.6	16.8		15.1		13.4	
BH30075			75	147.2	18.0		16.2		14.4	
BH30080			80	137.9	19.2		17.3		15.4	
BH30090			90	122.6	21.6		19.4		17.3	
BH30100			100	110.4	24.0		21.6		19.2	
BH30125			125	88.3	30.0		27.0		24.0	
BH30150			150	73.6	36.0		32.4		28.8	
BH30175			175	63.0	42.0		37.8		33.6	
BH30200			200	55.1	48.0		43.2		38.4	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

Codice Ctlig. No.	D	d	L ₀	R	24%		21.6 %		19.2 %						
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)					
BH35040	35	17.5	40	374.9	9.6	3599 (367)	8.6	3236 (330)	7.7	2873 (293)					
BH35045			45	333.3	10.8		9.7		8.6						
BH35050			50	300.0	12.0		10.8		9.6						
BH35055			55	272.7	13.2		11.9		10.6						
BH35060			60	250.0	14.4		13.0		11.5						
BH35065			65	230.8	15.6		14.0		12.5						
BH35070			70	214.3	16.8		15.1		13.4						
BH35075			75	200.0	18.0		16.2		14.4						
BH35080			80	187.5	19.2		17.3		15.4						
BH35090			90	166.7	21.6		19.4		17.3						
BH35100			100	150.0	24.0		21.6		19.2						
BH35125			125	120.0	30.0		27.0		24.0						
BH35150			150	100.0	36.0		32.4		28.8						
BH35175			175	85.6	42.0		37.8		33.6						
BH35200			200	74.9	48.0		43.2		38.4						
BH40040	40	20	40	490.5	9.6	4707 (480)	8.6	4236 (432)	7.7	3766 (384)					
BH40050			50	392.4	12.0		10.8		9.6						
BH40060			60	327.0	14.4		13.0		11.5						
BH40070			70	280.3	16.8		15.1		13.4						
BH40080			80	245.3	19.2		17.3		15.4						
BH40090			90	218.0	21.6		19.4		17.3						
BH40100			100	196.2	24.0		21.6		19.2						
BH40125			125	157.0	30.0		27.0		24.0						
BH40150			150	130.8	36.0		32.4		28.8						
BH40175			175	112.0	42.0		37.8		33.6						
BH40200			200	98.1	48.0		43.2		38.4						
BH40250			250	78.5	60.0		54.0		48.0						
BH50050			50	25	50		613.1		12.0		7355 (750)	10.8	6620 (675)	9.6	5884 (600)
BH50060					60		510.9		14.4			13.0		11.5	
BH50070					70		437.9		16.8			15.1		13.4	
BH50080	80	383.2			19.2	17.3	15.4								
BH50090	90	340.6			21.6	19.4	17.3								
BH50100	100	306.6			24.0	21.6	19.2								
BH50125	125	245.3			30.0	27.0	24.0								
BH50150	150	204.3			36.0	32.4	28.8								
BH50175	175	175.1			42.0	37.8	33.6								
BH50200	200	153.2			48.0	43.2	38.4								
BH50250	250	122.6			60.0	54.0	48.0								
BH50300	300	102.1			72.0	64.8	57.6								
BH60060	60	30			60	735.8	14.4	10591 (1080)	13.0	9542 (973)		11.5		8473 (864)	
BH60070					70	630.6	16.8		15.1			13.4			
BH60080					80	551.8	19.2		17.3			15.4			
BH60090			90	490.5	21.6	19.4	17.3								
BH60100			100	441.5	24.0	21.6	19.2								
BH60125			125	353.2	30.0	27.0	24.0								
BH60150			150	294.3	36.0	32.4	28.8								
BH60175			175	252.2	42.0	37.8	33.6								
BH60200			200	220.7	48.0	43.2	38.4								
BH60250			250	176.6	60.0	54.0	48.0								
BH60300			300	147.2	72.0	64.8	57.6								
			Cicli di lavoro Working cycles	300.000		500.000			1.000.000						

1 N = 0.102 kg
1 kg = 9.81 N

BB

Carico Extra Forte
Extra Heavy Load

Codice Ctg. No.	D	d	L ₀	R	20%		18%		16%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BB10020	10	5	20	110.4	4.0	441 (45)	3.6	402 (41)	3.2	353 (36)
BB10025			25	88.3	5.0		4.5		4.0	
BB10030			30	73.6	6.0		5.4		4.8	
BB10035			35	63.1	7.0		6.3		5.6	
BB10040			40	55.2	8.0		7.2		6.4	
BB10045			45	49.1	9.0		8.1		7.2	
BB10050			50	44.1	10.0		9.0		8.0	
BB10055			55	40.1	11.0		9.9		8.8	
BB10060			60	36.8	12.0		10.8		9.6	
BB10065			65	34.0	13.0		11.7		10.4	
BB10070			70	31.5	14.0		12.6		11.2	
BB10075			75	29.4	15.0		13.5		12.0	
BB10080			80	27.7	16.0		14.4		12.8	
BB12020	12	6	20	142.2	4.0	569 (58)	3.6	510 (52)	3.2	451 (46)
BB12025			25	113.8	5.0		4.5		4.0	
BB12030			30	94.9	6.0		5.4		4.8	
BB12035			35	81.3	7.0		6.3		5.6	
BB12040			40	71.1	8.0		7.2		6.4	
BB12045			45	63.2	9.0		8.1		7.2	
BB12050			50	56.9	10.0		9.0		8.0	
BB12055			55	51.7	11.0		9.9		8.8	
BB12060			60	47.4	12.0		10.8		9.6	
BB12065			65	43.6	13.0		11.7		10.4	
BB12070			70	40.5	14.0		12.6		11.2	
BB12075			75	37.8	15.0		13.5		12.0	
BB12080			80	35.4	16.0		14.4		12.8	
BB14025	14	7	25	147.2	5.0	736 (75)	4.5	667 (68)	4.0	588 (60)
BB14030			30	122.6	6.0		5.4		4.8	
BB14035			35	105.2	7.0		6.3		5.6	
BB14040			40	92.0	8.0		7.2		6.4	
BB14045			45	81.8	9.0		8.1		7.2	
BB14050			50	73.6	10.0		9.0		8.0	
BB14055			55	66.9	11.0		9.9		8.8	
BB14060			60	61.3	12.0		10.8		9.6	
BB14065			65	56.6	13.0		11.7		10.4	
BB14070			70	52.6	14.0		12.6		11.2	
BB14075			75	49.1	15.0		13.5		12.0	
BB14080			80	46.0	16.0		14.4		12.8	
BB14090			90	40.9	18.0		16.2		14.4	
BB16025	16	8	25	196.2	5.0	981 (100)	4.5	883 (90)	4.0	785 (80)
BB16030			30	163.5	6.0		5.4		4.8	
BB16035			35	140.2	7.0		6.3		5.6	
BB16040			40	122.6	8.0		7.2		6.4	
BB16045			45	109.0	9.0		8.1		7.2	
BB16050			50	98.1	10.0		9.0		8.0	
BB16055			55	89.2	11.0		9.9		8.8	
BB16060			60	81.8	12.0		10.8		9.6	
BB16065			65	75.4	13.0		11.7		10.4	
BB16070			70	70.0	14.0		12.6		11.2	
BB16075			75	65.4	15.0		13.5		12.0	
BB16080			80	61.3	16.0		14.4		12.8	
BB16090			90	54.5	18.0		16.2		14.4	
BB16100	100	49.1	20.0	18.0	16.0					
			Cicli di lavoro Working cycles	300.000		500.000		1.000.000		

Codice Ctlg. No.	D	d	L ₀	R	20%		18%		16%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BB18025	18	9	25	245.3	5.0	1226 (125)	4.5	1108 (113)	4.0	981 (100)
BB18030			30	204.4	6.0		5.4		4.8	
BB18035			35	175.2	7.0		6.3		5.6	
BB18040			40	153.3	8.0		7.2		6.4	
BB18045			45	136.3	9.0		8.1		7.2	
BB18050			50	122.6	10.0		9.0		8.0	
BB18055			55	111.5	11.0		9.9		8.8	
BB18060			60	102.2	12.0		10.8		9.6	
BB18065			65	94.4	13.0		11.7		10.4	
BB18070			70	87.6	14.0		12.6		11.2	
BB18075			75	81.8	15.0		13.5		12.0	
BB18080			80	76.7	16.0		14.4		12.8	
BB18090			90	68.2	18.0		16.2		14.4	
BB18100			100	61.4	20.0		18.0		16.0	
BB20025	20	10	25	313.9	5.0	1569 (160)	4.5	1412 (144)	4.0	1255 (128)
BB20030			30	261.6	6.0		5.4		4.8	
BB20035			35	224.3	7.0		6.3		5.6	
BB20040			40	196.2	8.0		7.2		6.4	
BB20045			45	174.4	9.0		8.1		7.2	
BB20050			50	157.0	10.0		9.0		8.0	
BB20055			55	142.7	11.0		9.9		8.8	
BB20060			60	130.8	12.0		10.8		9.6	
BB20065			65	120.8	13.0		11.7		10.4	
BB20070			70	112.1	14.0		12.6		11.2	
BB20075			75	104.7	15.0		13.5		12.0	
BB20080			80	98.1	16.0		14.4		12.8	
BB20090			90	87.2	18.0		16.2		14.4	
BB20100			100	78.5	20.0		18.0		16.0	
BB20125			125	62.8	25.0		22.5		20.0	
BB20150			150	52.3	30.0		27.0		24.0	
BB22025	22	11	25	382.6	5.0	1912 (195)	4.5	1726 (176)	4.0	1530 (156)
BB22030			30	318.8	6.0		5.4		4.8	
BB22035			35	273.3	7.0		6.3		5.6	
BB22040			40	239.2	8.0		7.2		6.4	
BB22045			45	212.6	9.0		8.1		7.2	
BB22050			50	191.3	10.0		9.0		8.0	
BB22055			55	173.9	11.0		9.9		8.8	
BB22060			60	159.4	12.0		10.8		9.6	
BB22065			65	147.2	13.0		11.7		10.4	
BB22070			70	136.7	14.0		12.6		11.2	
BB22075			75	127.5	15.0		13.5		12.0	
BB22080			80	119.6	16.0		14.4		12.8	
BB22090			90	106.2	18.0		16.2		14.4	
BB22100			100	95.6	20.0		18.0		16.0	
BB22125			125	76.5	25.0		22.5		20.0	
BB22150			150	63.8	30.0		27.0		24.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

1 N = 0.102 kg
1 kg = 9.81 N

BB

Carico Extra Forte Extra Heavy Load

JIS B5012



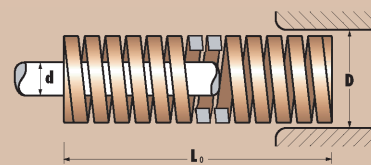
Codice Ctg. No.	D	d	L ₀	R	20%		18%		16%	
	Sede Housing mm Ø	Spina Rod mm Ø	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BB25025	25	12.5	25	480.7	5.0	2402 (245)	4.5	2167 (221)	4.0	1922 (196)
BB25030			30	400.2	6.0		5.4		4.8	
BB25035			35	343.4	7.0		6.3		5.6	
BB25040			40	300.2	8.0		7.2		6.4	
BB25045			45	266.8	9.0		8.1		7.2	
BB25050			50	240.3	10.0		9.0		8.0	
BB25055			55	218.8	11.0		9.9		8.8	
BB25060			60	200.1	12.0		10.8		9.6	
BB25065			65	184.4	13.0		11.7		10.4	
BB25070			70	171.7	14.0		12.6		11.2	
BB25075			75	159.9	15.0		13.5		12.0	
BB25080			80	150.1	16.0		14.4		12.8	
BB25090			90	133.4	18.0		16.2		14.4	
BB25100			100	120.7	20.0		18.0		16.0	
BB25125			125	96.1	25.0		22.5		20.0	
BB25150			150	80.1	30.0		27.0		24.0	
BB25175			175	68.7	35.0		31.5		28.0	
BB27025	27	13.5	25	569.0	5.0	2844 (290)	4.5	2560 (261)	4.0	2275 (232)
BB27030			30	474.1	6.0		5.4		4.8	
BB27035			35	406.4	7.0		6.3		5.6	
BB27040			40	355.6	8.0		7.2		6.4	
BB27045			45	316.1	9.0		8.1		7.2	
BB27050			50	284.5	10.0		9.0		8.0	
BB27055			55	258.6	11.0		9.9		8.8	
BB27060			60	237.1	12.0		10.8		9.6	
BB27065			65	218.9	13.0		11.7		10.4	
BB27070			70	203.2	14.0		12.6		11.2	
BB27075			75	189.6	15.0		13.5		12.0	
BB27080			80	177.9	16.0		14.4		12.8	
BB27090			90	158.0	18.0		16.2		14.4	
BB27100			100	142.2	20.0		18.0		16.0	
BB27125			125	113.8	25.0		22.5		20.0	
BB27150			150	94.9	30.0		27.0		24.0	
BB27175			175	81.2	35.0		31.5		28.0	
BB30025	30	15	25	706.3	5.0	3530 (360)	4.5	3177 (324)	4.0	2824 (288)
BB30030			30	588.6	6.0		5.4		4.8	
BB30035			35	504.5	7.0		6.3		5.6	
BB30040			40	441.5	8.0		7.2		6.4	
BB30045			45	392.4	9.0		8.1		7.2	
BB30050			50	353.2	10.0		9.0		8.0	
BB30055			55	321.0	11.0		9.9		8.8	
BB30060			60	294.3	12.0		10.8		9.6	
BB30065			65	271.6	13.0		11.7		10.4	
BB30070			70	252.2	14.0		12.6		11.2	
BB30075			75	235.4	15.0		13.5		12.0	
BB30080			80	220.7	16.0		14.4		12.8	
BB30090			90	196.2	18.0		16.2		14.4	
BB30100			100	176.6	20.0		18.0		16.0	
BB30125			125	141.3	25.0		22.5		20.0	
BB30150			150	117.7	30.0		27.0		24.0	
BB30175			175	100.8	35.0		31.5		28.0	
BB30200			200	88.3	40.0		36.0		32.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

Codice Ctlg. No.	D	d	L ₀	R	20%		18%		16%	
	Sede Housing Ø mm	Spina Rod Ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)	Deflessione Deflection mm	Carico Load N (kg)
BB35040	35	17.5	40	600.9	8.0	4805 (490)	7.2	4324 (441)	6.4	3844 (392)
BB35045			45	534.1	9.0		8.1		7.2	
BB35050			50	480.7	10.0		9.0		8.0	
BB35055			55	436.9	11.0		9.9		8.8	
BB35060			60	400.5	12.0		10.8		9.6	
BB35065			65	369.7	13.0		11.7		10.4	
BB35070			70	343.4	14.0		12.6		11.2	
BB35075			75	320.5	15.0		13.5		12.0	
BB35080			80	300.4	16.0		14.4		12.8	
BB35090			90	267.0	18.0		16.2		14.4	
BB35100			100	240.3	20.0		18.0		16.0	
BB35125			125	192.3	25.0		22.5		20.0	
BB35150			150	160.2	30.0		27.0		24.0	
BB35175			175	137.3	35.0		31.5		28.0	
BB35200			200	120.2	40.0		36.0		32.0	
BB40040	40	20	40	784.8	8.0	6276 (640)	7.2	5649 (576)	6.4	5021 (512)
BB40050			50	627.8	10.0		9.0		8.0	
BB40060			60	523.2	12.0		10.8		9.6	
BB40070			70	448.4	14.0		12.6		11.2	
BB40080			80	392.4	16.0		14.4		12.8	
BB40090			90	348.7	18.0		16.2		14.4	
BB40100			100	313.9	20.0		18.0		16.0	
BB40125			125	251.1	25.0		22.5		20.0	
BB40150			150	209.2	30.0		27.0		24.0	
BB40175			175	179.3	35.0		31.5		28.0	
BB40200			200	157.0	40.0		36.0		32.0	
BB40250			250	125.6	50.0		45.0		40.0	
BB50050	50	25	50	981.0	10.0	9807 (1000)	9.0	8826 (900)	8.0	7845 (800)
BB50060			60	817.5	12.0		10.8		9.6	
BB50070			70	700.6	14.0		12.6		11.2	
BB50080			80	613.1	16.0		14.4		12.8	
BB50090			90	544.9	18.0		16.2		14.4	
BB50100			100	490.5	20.0		18.0		16.0	
BB50125			125	392.4	25.0		22.5		20.0	
BB50150			150	327.0	30.0		27.0		24.0	
BB50175			175	280.3	35.0		31.5		28.0	
BB50200			200	245.3	40.0		36.0		32.0	
BB50250			250	196.2	50.0		45.0		40.0	
BB50300			300	163.4	60.0		54.0		48.0	
BB60060	60	30	60	1,177.2	12.0	14122 (1440)	10.8	12709 (1296)	9.6	11297 (1152)
BB60070			70	1,009.1	14.0		12.6		11.2	
BB60080			80	882.9	16.0		14.4		12.8	
BB60090			90	784.8	18.0		16.2		14.4	
BB60100			100	706.3	20.0		18.0		16.0	
BB60125			125	565.1	25.0		22.5		20.0	
BB60150			150	470.9	30.0		27.0		24.0	
BB60175			175	403.6	35.0		31.5		28.0	
BB60200			200	353.2	40.0		36.0		32.0	
BB60250			250	282.5	50.0		45.0		40.0	
BB60300			300	235.4	60.0		54.0		48.0	
			Cicli di lavoro Working cycles	300.000			500.000		1.000.000	

1 N = 0.102 kg
1 kg = 9.81 N

6S

Carico Super Forte Super Heavy Load



6S....la nuova serie di molle "super forti" Bordignon

Proponiamo una nuova serie di molle, nei diametri da 20 a 50 mm con rigidità eccezionalmente elevata, tale da ottenere forze iniziali molto grandi con poca precompressione e carichi notevolissimi alle varie deflessioni. Il confronto tra le molle della serie extra forte "BB" e le corrispondenti "6S" danno un'immediata evidenza a quanto detto: **la rigidità delle 6S è circa 2,5 volte quella delle corrispondenti BB**; questo è stato ottenuto grazie ad una particolare sezione del filo, pur utilizzando lo stesso materiale e gli stessi trattamenti così da garantire durate elevate.

E' un risultato straordinario ed esclusivo della Bordignon spa.

Denominate 6S..... e identificate dal colore oro, queste molle sono pronte a magazzino in scatole standard.

6S ... the new series of "super heavy" springs Bordignon

We present a series of die springs, available with diameter from 20 to 50 mm with rigidity exceptionally high that obtain very big beginning strength with few low preloading and remarkable charge at different deflection.

The comparison between series "extra heavy BB" springs and the corresponding "6S" give a immediate evidence to all announced: **The rigidity of 6S series is about 2,5 times the corresponding "BB" springs**; we obtained that thanks to the particular wire section always using the same alloy and the same treatment for guarantee long life-time.

It is a Bordignon S. p. a. extraordinary and exclusive result.

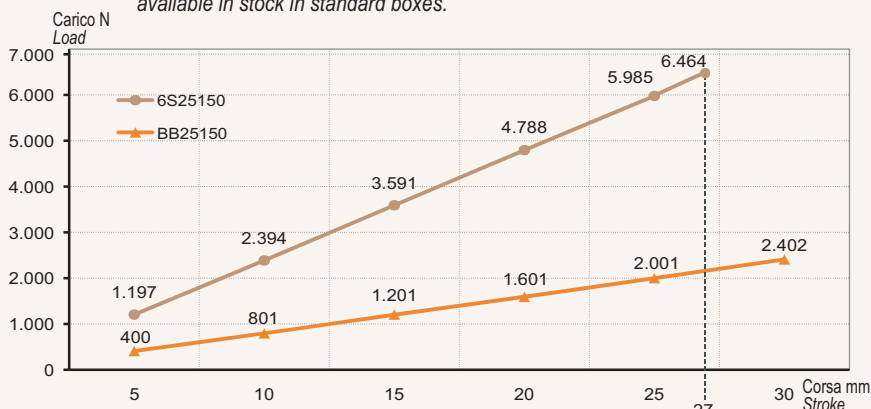
Called 6S and identified with golden colour, these springs are available in stock in standard boxes.

Esempi di comparazione tra molle 6S e BB

Example of comparison between 6S and BB springs

Codice Ctlg.nr.	Corsa Stroke	mm	5	10	15	20	25	27	30
6S25150	Carico Load	N	1.197	2.394	3.591	4.788	5.985	6.464	
BB25150	Load	N	400	801	1.201	1.601	2.001	2.161	2.402

Deflessione massima consentita
Maximum working deflection



	D	d	L ₀	R	10,5%		12%		13%		APPROX 			
					Defless. per lunga durata Long life deflection		Defless. per lunga durata Medium life deflection		Defless. max di lavoro Max working deflection		Molla a blocco Spring to solid			
	Codice Ctlg. nr.	Sede Housing ø mm	Spina Rod ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Nr. pezzi Nr. pcs
	6S10025	10	5	25	167	2,6	438	3,0	501	3,3	543	3,8	635	100
	6S10030			30	130	3,2	410	3,6	468	3,9	507	4,5	585	100
	6S10035			35	113	3,7	415	4,2	475	4,6	514	5,2	588	100
	6S10040			40	98	4,2	412	4,8	470	5,2	510	5,8	568	100
	6S10045			45	86	4,7	406	5,4	464	5,9	503	6,8	585	100
	6S10050			50	79	5,3	415	6,0	474	6,5	514	7,8	616	100
	6S10055			55	71	5,8	410	6,6	469	7,2	508	8,8	625	100
	6S10060			60	67	6,3	422	7,2	482	7,8	523	9,8	657	50
	6S12025	12	6	25	231	2,6	606	3,0	693	3,3	751	3,8	878	100
	6S12030			30	185	3,2	583	3,6	666	3,9	722	4,5	833	100
	6S12035			35	158	3,7	581	4,2	664	4,6	719	5,2	822	100
	6S12040			40	124	4,2	521	4,8	595	5,2	645	5,8	719	100
	6S12045			45	118	4,7	558	5,4	637	5,9	690	6,8	802	100
	6S12050			50	107	5,3	562	6,0	642	6,5	696	7,8	835	100
	6S12055			55	96	5,8	554	6,6	634	7,2	686	8,8	845	100
	6S12060			60	87	6,3	548	7,2	626	7,8	679	9,8	853	50
	6S14030	14	7	30	329	3,2	1036	3,6	1184	3,9	1283	4,5	1481	100
	6S14035			35	276	3,7	1014	4,2	1159	4,6	1256	5,2	1435	100
	6S14040			40	234	4,2	983	4,8	1123	5,2	1217	5,8	1357	100
	6S14045			45	200	4,7	945	5,4	1080	5,9	1170	6,8	1360	100
	6S14050			50	178	5,3	935	6,0	1068	6,5	1157	7,8	1388	100
	6S14055			55	158	5,8	912	6,6	1043	7,2	1130	8,8	1390	100
	6S14060			60	144	6,3	907	7,2	1037	7,8	1123	9,8	1411	50
	6S16030	16	8	30	456	3,2	1436	3,6	1642	3,9	1778	4,5	2052	100
	6S16035			35	387	3,7	1422	4,2	1625	4,6	1761	5,2	2012	100
	6S16040			40	334	4,2	1403	4,8	1603	5,2	1737	5,8	1937	100
	6S16045			45	291	4,7	1375	5,4	1571	5,9	1702	6,8	1979	100
	6S16050			50	258	5,3	1355	6,0	1548	6,5	1677	7,8	2012	100
	6S16055			55	234	5,8	1351	6,6	1544	7,2	1673	8,8	2059	100
	6S16060			60	215	6,3	1355	7,2	1548	7,8	1677	9,8	2107	50
	6S18030	18	9	30	587	3,2	1849	3,6	2113	3,9	2289	4,5	2642	100
	6S18035			35	482	3,7	1771	4,2	2024	4,6	2193	5,2	2506	100
	6S18040			40	428	4,2	1798	4,8	2054	5,2	2226	5,8	2482	100
	6S18045			45	368	4,7	1739	5,4	1987	5,9	2153	6,8	2502	100
	6S18050			50	322	5,3	1691	6,0	1932	6,5	2093	7,8	2512	100
	6S18055			55	288	5,8	1663	6,6	1901	7,2	2059	8,8	2534	100
	6S18060			60	267	6,3	1682	7,2	1922	7,8	2083	9,8	2617	50

Cicli di lavoro
Working cycles

1.000.000

500.000

300.000

		D	d	L ₀	R	10,5%		12%		13%		APPROX 			
						Defless. per lunga durata Long life deflection		Defless. per lunga durata Medium life deflection		Defless. max di lavoro Max working deflection		Molla a blocco Spring to solid			
	Codice Ctg.nr.	Sede Housing ø mm	Spina Rod ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Nr. pezzi Nr. pcs	
	6S20030	20	10	Sez. filo / Wire section 4.45 x 5.8	30	690	3,2	2174	3,6	2484	3,9	2691	4,5	3105	50
	6S20035				35	578	3,7	2125	4,2	2428	4,6	2630	5,2	3006	50
	6S20040				40	501	4,2	2103	4,8	2404	5,2	2604	5,8	2905	50
	6S20045				45	442	4,7	2089	5,4	2387	5,9	2586	6,8	3006	50
	6S20050				50	396	5,3	2079	6,0	2376	6,5	2574	7,8	3089	50
	6S20055				55	359	5,8	2072	6,6	2368	7,2	2566	8,8	3158	50
	6S20060				60	328	6,3	2068	7,2	2363	7,8	2560	9,8	3217	50
	6S20065				65	303	6,8	2065	7,8	2361	8,5	2557	10,8	3268	50
	6S20070				70	281	7,4	2064	8,4	2359	9,1	2556	11,8	3314	20
	6S20075				75	263	7,9	2069	9,0	2364	9,8	2561	12,8	3363	20
	6S20080				80	247	8,4	2076	9,6	2372	10,4	2570	14,5	3583	20
	6S20090				90	219	9,5	2071	10,8	2367	11,7	2565	15,5	3397	20
	6S20100				100	198	10,5	2078	12,0	2374	13,0	2572	17,5	3463	20
	6S20125				125	158	13,1	2068	15,0	2363	16,3	2560	23,0	3623	10
	6S20150				150	131	15,8	2065	18,0	2360	19,5	2556	27,0	3539	10
	6S22030	22	11	Sez. filo / Wire section 5.0 x 6.3	30	975	3,2	3071	3,6	3510	3,9	3803	4,5	4388	50
	6S22035				35	795	3,7	2922	4,2	3339	4,6	3617	5,2	4134	50
	6S22040				40	633	4,2	2659	4,8	3038	5,2	3292	5,8	3671	50
	6S22045				45	561	4,7	2651	5,4	3029	5,9	3282	6,8	3815	50
	6S22050				50	551	5,3	2893	6,0	3306	6,5	3582	7,8	4298	50
	6S22055				55	441	5,8	2547	6,6	2911	7,2	3153	8,8	3881	50
	6S22060				60	420	6,3	2646	7,2	3024	7,8	3276	9,8	4116	50
	6S22065				65	391	6,8	2669	7,8	3050	8,5	3304	10,8	4223	50
	6S22070				70	356	7,4	2617	8,4	2990	9,1	3240	11,8	4201	20
	6S22075				75	333	7,9	2622	9,0	2997	9,8	3247	12,8	4262	20
	6S22080				80	324	8,4	2722	9,6	3110	10,4	3370	14,5	4698	20
	6S22090				90	276	9,5	2608	10,8	2981	11,7	3229	15,5	4278	20
	6S22100				100	253	10,5	2657	12,0	3036	13,0	3289	17,5	4428	20
	6S22125				125	199	13,1	2612	15,0	2985	16,3	3234	23,0	4577	10
	6S22150				150	166	15,8	2615	18,0	2988	19,5	3237	27,0	4482	10
	6S25035	25	12.5	Sez. filo / Wire section 5.6 x 7.55	35	1360	3,7	4998	4,2	5712	4,6	6188	5,2	7072	50
	6S25040				40	953	4,2	4004	4,8	4576	5,2	4957	5,8	5529	50
	6S25045				45	837	4,7	3956	5,4	4521	5,9	4898	6,8	5693	50
	6S25050				50	747	5,3	3921	6,0	4481	6,5	4854	7,8	5825	50
	6S25055				55	674	5,8	3895	6,6	4452	7,2	4822	8,8	5935	50
	6S25060				60	615	6,3	3876	7,2	4430	7,8	4799	9,8	6030	50
	6S25065				65	566	6,8	3863	7,8	4415	8,5	4783	10,8	6113	50
	6S25070				70	524	7,4	3853	8,4	4404	9,1	4771	11,8	6186	50
	6S25075				75	489	7,9	3847	9,0	4397	9,8	4763	12,8	6253	20
	6S25080				80	458	8,4	3843	9,6	4392	10,4	4758	14,5	6634	20
	6S25090				90	403	9,5	3806	10,8	4349	11,7	4712	15,5	6242	20
	6S25100				100	364	10,5	3819	12,0	4364	13,0	4728	17,5	6364	20
	6S25125				125	290	13,1	3811	15,0	4355	16,3	4718	23,0	6678	10
	6S25150				150	239	15,8	3771	18,0	4309	19,5	4669	27,0	6464	10
	6S25175				175	205	18,4	3764	21,0	4302	22,8	4660	32,0	6555	5
	6S27035	27	13.5	Sez. filo / Wire section 6.05 x 8.3	35	1594	3,7	5858	4,2	6695	4,6	7253	5,2	8289	50
	6S27040				40	1150	4,2	4830	4,8	5520	5,2	5980	5,8	6670	50
	6S27045				45	987	4,7	4665	5,4	5331	5,9	5775	6,8	6713	50
	6S27050				50	877	5,3	4605	6,0	5263	6,5	5701	7,8	6842	50
	6S27055				55	793	5,8	4581	6,6	5235	7,2	5671	8,8	6980	50
	6S27060				60	724	6,3	4563	7,2	5215	7,8	5650	9,8	7099	50
	6S27065				65	667	6,8	4552	7,8	5202	8,5	5635	10,8	7202	50
	6S27070				70	618	7,4	4544	8,4	5193	9,1	5626	11,8	7295	50
	6S27075				75	576	7,9	4539	9,0	5188	9,8	5620	12,8	7378	20
	6S27080				80	539	8,4	4530	9,6	5178	10,4	5609	14,5	7820	20
	6S27090				90	477	9,5	4506	10,8	5149	11,7	5578	15,5	7390	20
	6S27100				100	428	10,5	4489	12,0	5131	13,0	5558	17,5	7482	20
	6S27125				125	339	13,1	4444	15,0	5079	16,3	5502	23,0	7788	10
	6S27150				150	281	15,8	4420	18,0	5051	19,5	5472	27,0	7576	10
	6S27175				175	240	18,4	4404	21,0	5033	22,8	5452	32,0	7669	5

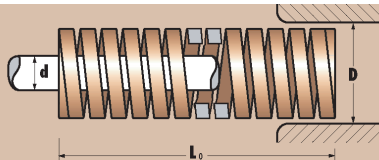
1 N = 0.102 kg
1 kg = 9.81 N

Cicli di lavoro
Working cycles

1.000.000

500.000

300.000



	D	d	L ₀	R	10,5%		12%		13%		APPROX 							
					Defless. per lunga durata Long life deflection		Defless. per lunga durata Medium life deflection		Defless. max di lavoro Max working deflection		Molla a blocco Spring to solid							
	Codice Ctg.nr.	Sede Housing ø mm	Spina Rod ø mm	Lungh. libera Free length mm	Rigidità Rate N/mm	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Deflessione Deflection mm	Carico Load N	Nr. pezzi Nr. pcs				
	6S30035	30	15	Sez. filo / Wire section 6.85 x 8.6	35	1486	3,7	5461	4,2	6241	4,6	6761	5,2	7727	50			
	6S30040				40	1298	4,2	5452	4,8	6230	5,2	6750	5,8	7528	50			
	6S30045				45	1126	4,7	5322	5,4	6082	5,9	6589	6,8	7659	50			
	6S30050				50	1004	5,3	5272	6,0	6025	6,5	6527	7,8	7832	50			
	6S30055				55	913	5,8	5272	6,6	6025	7,2	6527	8,8	8033	50			
	6S30060				60	837	6,3	5275	7,2	6028	7,8	6531	9,8	8205	50			
	6S30065				65	769	6,8	5249	7,8	5999	8,5	6499	10,8	8306	50			
	6S30070				70	713	7,4	5240	8,4	5988	9,1	6487	11,8	8412	50			
	6S30075				75	664	7,9	5230	9,0	5977	9,8	6475	12,8	8500	20			
	6S30080				80	622	8,4	5223	9,6	5969	10,4	6467	14,5	9016	20			
	6S30090				90	550	9,5	5200	10,8	5943	11,7	6438	15,5	8530	20			
	6S30100				100	494	10,5	5186	12,0	5927	13,0	6421	17,5	8643	20			
	6S30125				125	391	13,1	5134	15,0	5867	16,3	6356	23,0	8996	10			
	6S30150				150	325	15,8	5126	18,0	5859	19,5	6347	27,0	8788	10			
	6S30175				175	278	18,4	5116	21,0	5846	22,8	6334	32,0	8909	5			
	6S30200				200	243	21,0	5112	24,0	5842	26,0	6329	41,0	9980	5			
	6S35045	35	17.5	Sez. filo / Wire section 8.1 x 9.4	45	1380	4,7	6521	5,4	7452	5,9	8073	6,8	9384	50			
	6S35050				50	1178	5,3	6186	6,0	7070	6,5	7659	7,8	9191	50			
	6S35055				55	1063	5,8	6137	6,6	7014	7,2	7599	8,8	9352	50			
	6S35060				60	968	6,3	6101	7,2	6973	7,8	7554	9,8	9491	50			
	6S35065				65	890	6,8	6075	7,8	6942	8,5	7521	10,8	9613	50			
	6S35070				70	832	7,4	6114	8,4	6988	9,1	7570	11,8	9816	50			
	6S35075				75	781	7,9	6152	9,0	7031	9,8	7617	12,8	10000	20			
	6S35080				80	743	8,4	6242	9,6	7133	10,4	7728	14,5	10774	20			
	6S35090				90	653	9,5	6167	10,8	7048	11,7	7635	15,5	10115	20			
	6S35100				100	585	10,5	6146	12,0	7024	13,0	7610	17,5	10244	20			
	6S35125				125	464	13,1	6093	15,0	6964	16,3	7544	23,0	10677	10			
	6S35150				150	360	15,8	5670	18,0	6480	19,5	7020	27,0	9720	10			
	6S35175				175	310	18,4	5696	21,0	6510	22,8	7053	32,0	9920	5			
	6S35200				200	270	21,0	5670	24,0	6480	26,0	7020	41,0	11070	5			
	6S40045	40	20	Sez. filo / Wire section 9.2 x 11	45	1830	4,7	8647	5,4	9882	5,9	10706	6,8	12444	50			
	6S40050				50	1580	5,3	8295	6,0	9480	6,5	10270	7,8	12324	50			
	6S40055				55	1435	5,8	8287	6,6	9471	7,2	10260	8,8	12628	50			
	6S40060				60	1360	6,3	8568	7,2	9792	7,8	10608	9,8	13328	50			
	6S40065				65	1227	6,8	8376	7,8	9573	8,5	10371	10,8	13255	50			
	6S40070				70	1137	7,4	8354	8,4	9547	9,1	10343	11,8	13412	50			
	6S40075				75	1059	7,9	8339	9,0	9531	9,8	10325	12,8	13555	20			
	6S40080				80	994	8,4	8348	9,6	9541	10,4	10336	14,5	14410	20			
	6S40090				90	881	9,5	8325	10,8	9514	11,7	10307	15,5	13655	20			
	6S40100				100	765	10,5	8033	12,0	9180	13,0	9945	17,5	13388	20			
	6S40125				125	624	13,1	8188	15,0	9358	16,3	10137	23,0	14348	10			
	6S40150				150	516	15,8	8135	18,0	9297	19,5	10071	27,0	13945	10			
	6S40175				175	442	18,4	8114	21,0	9273	22,8	10045	32,0	14130	5			
	6S40200				200	385	21,0	8093	24,0	9250	26,0	10020	41,0	15801	5			
	6S50055				50	25	Sez. filo / Wire section 11.55 x 13.6	55	2295	5,8	13254	6,6	15147	7,2	16409	8,8	20196	20
	6S50060							60	2145	6,3	13514	7,2	15444	7,8	16731	9,8	21021	20
	6S50065	65	1898	6,8				12954	7,8	14804	8,5	16038	10,8	20498	20			
	6S50070	70	1695	7,4				12458	8,4	14238	9,1	15425	11,8	20001	20			
	6S50075	75	1704	7,9				13416	9,0	15333	9,8	16611	12,8	21807	20			
	6S50080	80	1620	8,4				13608	9,6	15552	10,4	16848	14,5	23490	20			
	6S50090	90	1397	9,5				13197	10,8	15082	11,7	16339	15,5	21646	20			
	6S50100	100	1248	10,5				13100	12,0	14971	13,0	16219	17,5	21833	20			
	6S50125	125	985	13,1				12931	15,0	14778	16,3	16009	23,0	22659	10			
	6S50150	150	790	15,8				12443	18,0	14220	19,5	15405	27,0	21330	10			
	6S50175	175	697	18,4				12799	21,0	14627	22,8	15846	32,0	22289	5			
	6S50200	200	580	21,0				12180	24,0	13920	26,0	15080	41,0	23780	5			
	6S50250	250	460	26,3				12075	30,0	13800	32,5	14950	53,0	24380	5			

Cicli di lavoro
Working cycles

1.000.000

500.000

300.000

1 N = 0.102 kg

1 kg = 9.81 N

BORDIGNON produce molle da oltre 40 anni, sia su disegno, in vari diametri, sezioni di filo e materiali, sia secondo alcuni standards internazionali, tra cui lo standard JIS B5012 del presente catalogo.

Il processo produttivo si svolge tutto all'interno dell'Azienda e viene meticolosamente controllato in ogni sua fase, garantendo qualità costante e rintracciabilità del prodotto.

Primo nel settore, BORDIGNON ha ottenuto la certificazione secondo le norme UNI EN ISO 9002 già nel 1995 e nel 2002 ha ottenuto l'adeguamento della norma UNI EN ISO 9001:2000.

Le molle del presente catalogo sono a magazzino per una pronta consegna tramite un'efficiente rete di distribuzione presente in tutte le principali aree produttive del mondo.

BORDIGNON manufactures springs since over forty years, with different wire diameters and shapes and materials, as well as springs conforming to international standards, like the JIS B5012 of this catalogue.

Production is entirely carried out on company premises and all stages are submitted to painstaking control, so that consistent quality and complete traceability of the product are guaranteed.

In 1995, BORDIGNON has been the first company in the sector to be awarded the quality certification UNI EN ISO 9002 and during 2002 year obtained UNI EN ISO 9001:2000 certification.

Our own large stocks and those of our Distributors will ensure fast deliveries and a prompt after-sale service for all the springs of the catalogue.



Stabilimento di Rossano Veneto (Venezia)
Factory in Rossano Veneto (Venezia)



Gli standard di molle a filo comprendono:

- quattro serie di molle a norma ISO 10243;
- quattro serie di molle con filo a sezione ovale;
- cinque serie di molle "metriche" a norma giapponese JIS B5012;
- la serie di molle extra leggero 1L, esclusiva Bordignon
- la serie super-forti 5S e 6S, esclusiva Bordignon.

Su richiesta, Bordignon produce molle diverse dagli standards di catalogo.

The standard wire springs comprise:

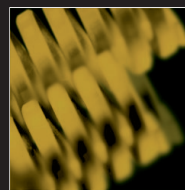
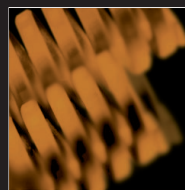
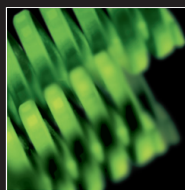
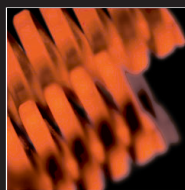
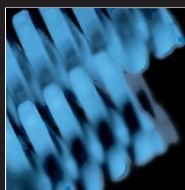
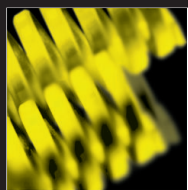
- four series to ISO 10243 standard;
- four series of oval cross section wire;
- five series of "metric" springs to Japanese standard JIS B5012;
- the extra-light 1L series, exclusive to Bordignon;
- the super-heavy 5S and 6S series, exclusive to Bordignon.

Bordignon also produces tailor made springs on request.





BORDIGNON



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