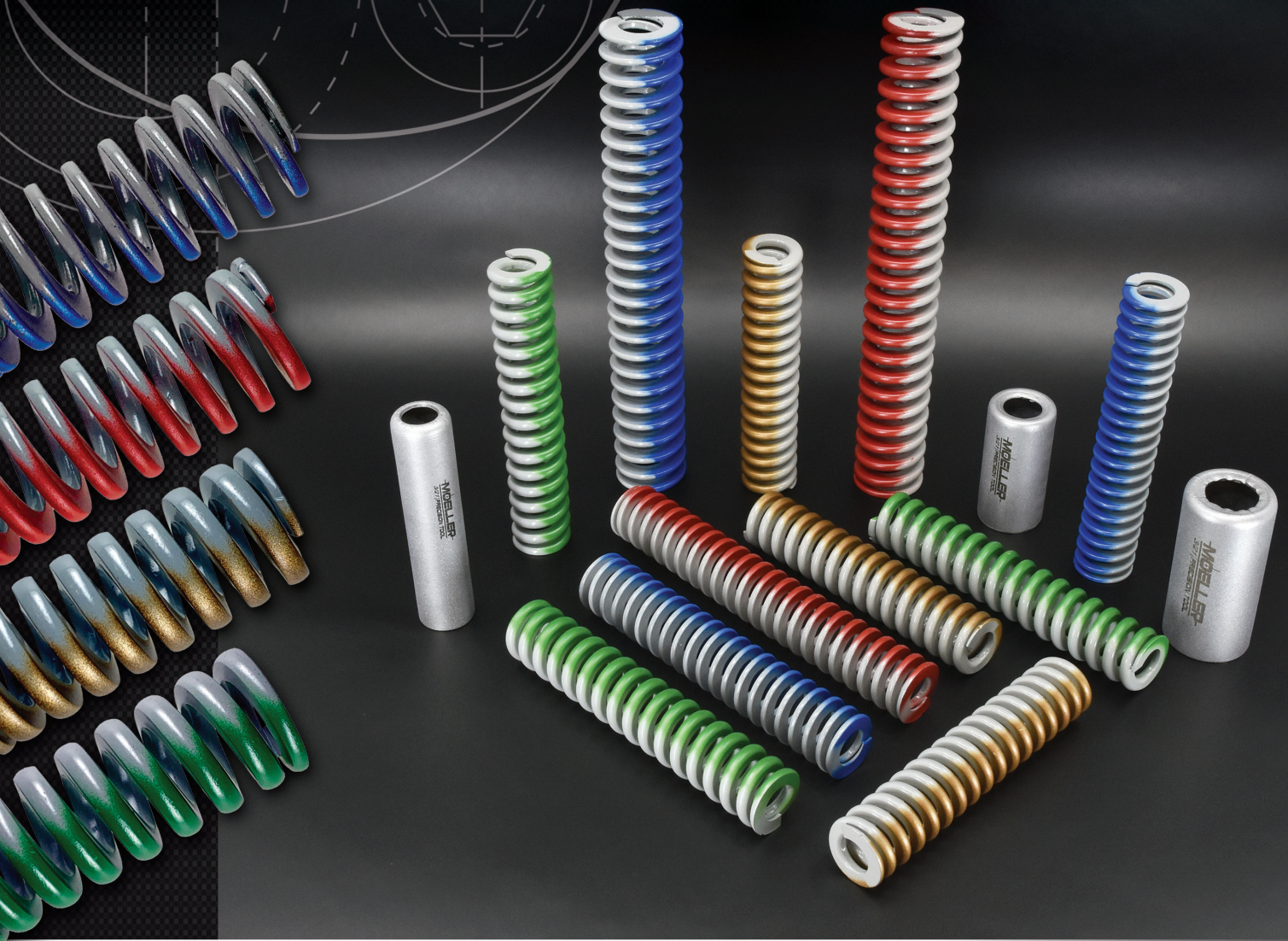


MOELLER™

PRECISION TOOL

OVAL WIRE DIE SPRINGS

THE SPRING WITH *the Stripe*



Fully Interchangeable with Raymond® and Leading Brands

THE WORLD'S LEADING MECHANICAL DIE SPRING MANUFACTURER

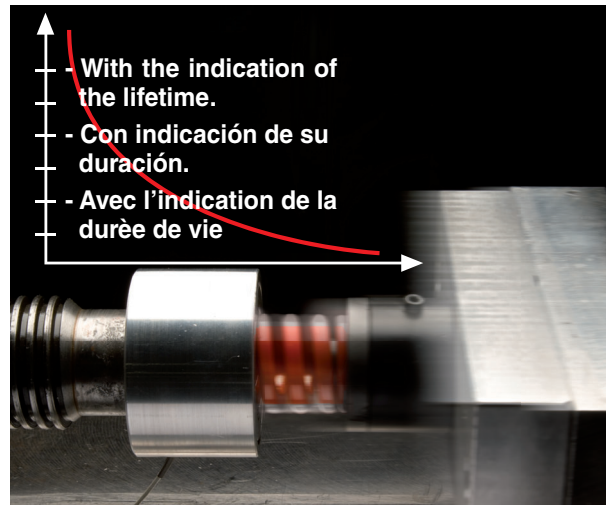


EN The new benchmark for the Special Springs US Series. E-coat provides corrosion resistance and high mechanical strength. Coating thickness controlled to $10 < 30 \mu\text{m}$.

ES La nueva referencia para la Serie US de Special Springs. E-coating ofrece resistencia a la corrosión y alta resistencia mecánica. Espesor controlado $10 < 30 \mu\text{m}$.

EN Life cycle data published in catalog indicating minimum spring life based on deflection %. Working conditions can significantly influence actual spring life.

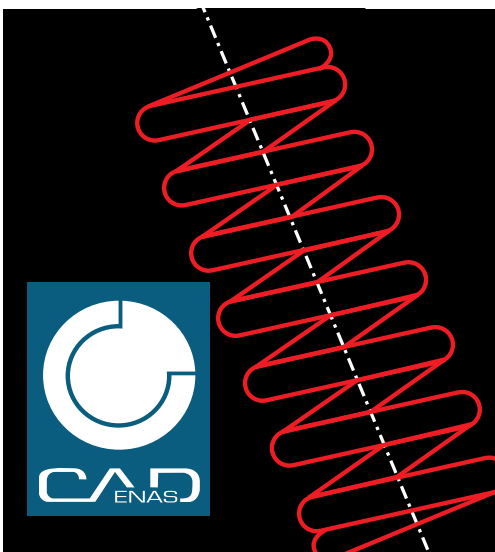
ES Datos del ciclo de vida publicados en el catálogo que indican la vida mínima del resorte basada en el porcentaje de deflexión. Las condiciones de trabajo pueden influir significativamente en la vida útil real de los resortes.



- With the indication of the lifetime.

- Con indicación de su duración.

- Avec l'indication de la durée de vie

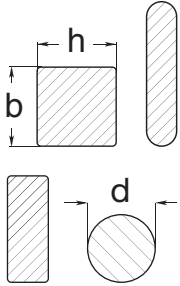


EN 2-3D CAD files easily downloaded through Cadenas Partcommunity and eCATALOGsolution.

ES Los archivos CAD 2-3D se descargan fácilmente a través de Cadenas Partcommunity y eCATALOGsolution.

CUSTOM SPRINGS

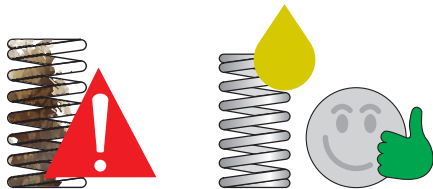
- Multiple Wire Forms
- 100% In house processes
- No Minimum Order Quantity
- Competitive price



- Diameters from 3 mm - 150 mm
- Quick delivery
- Made to customer specification

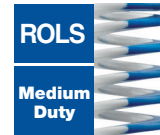
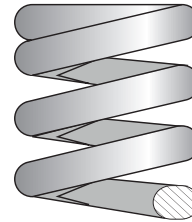
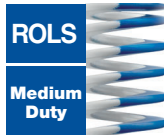
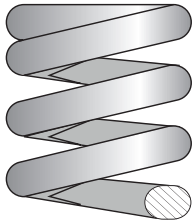
UNPAINTED SPRINGS

- **MODELS:** Same of standard series.
- **MIN. QUANTITY:** Same as standard springs.
- **HOW TO ORDER:** Add "U" to part number, see page 9.
- **SPRINGS IDENTIFICATION:** Unpainted springs can be identified by label or measurement.



- **RUST PROTECTION:** Rust can cause early breaking, thus we recommend special care when using unpainted springs.

RANGE OVERVIEW



DH	Dd	L0
inch	inch	inch
3/8	3/16	1
		1 1/4
		1 1/2
		1 3/4
		2
		2 1/2
		3
		12
1/2	9/32	1
		1 1/4
		1 1/2
		1 3/4
		2
		2 1/2
		3
		3 1/2
		4
		4 1/2
		5 1/2
		6 1/2
7 1/2		
12		
5/8	11/32	1
		1 1/4
		1 1/2
		1 3/4
		2
		2 1/2
		3
		3 1/2
		4
		4 1/2
		12
		3/4
1 1/4		
1 1/2		
1 3/4		
2		
2 1/2		
3		
3 1/2		
4		
4 1/2		
5		
5 1/2		
6		
6 1/2		
7 1/2		
12		
1	1/2	1
		1 1/4
		1 1/2
		1 3/4
		2
		2 1/2
		3
		3 1/2
		4
		4 1/2

US series
Max. Defl. 50% L ₀
R ± 10%
lbs./1 inch
6.0
5.0
4.2
3.7
3.1
2.6
2.1
0.6
11.0
8.2
6.8
6.0
5.5
4.5
3.5
3.0
2.6
2.3
2.0
1.4
1.2
0.7
16.4
12.4
10.8
9.6
8.6
6.5
5.8
5.0
4.4
3.8
1.5
32.0
25.6
20.0
17.6
15.0
12.0
10.1
8.3
7.5
6.4
6.0
5.5
5.0
4.7
3.8
2.4
55.0
45.0
37.3
32.0
26.8
20.9
17.1
14.5
12.5
11.0

US series
Max. Defl. 37% L ₀
R ± 10%
lbs./1 inch
8.4
7.3
6.7
5.8
5.0
3.7
3.0
0.8
15.5
12.2
9.8
8.5
7.5
6.0
5.1
4.0
3.7
-
-
-
-
-
1.1
30.0
21.5
19.0
16.8
15.5
11.5
10.0
8.5
7.6
6.6
2.6
50.0
38.0
31.0
27.0
24.0
18.8
14.9
12.8
11.0
10.0
9.0
8.0
7.5
-
-
3.5
82.7
65.3
53.8
46.1
40.0
32.2
26.7
22.9
20.2
17.8

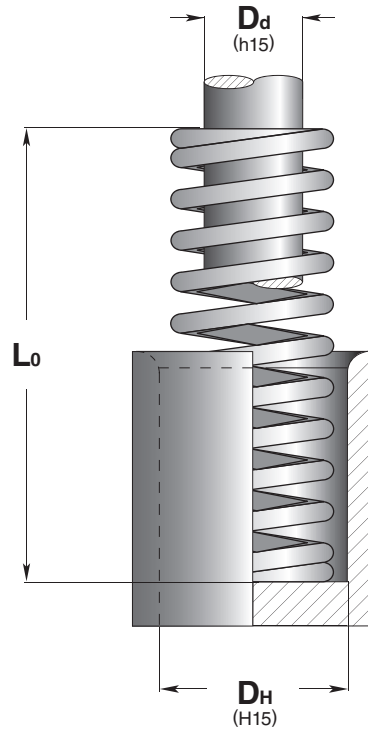
US series
Max. Defl. 30% L ₀
R ± 10%
lbs./1 inch
11.6
9.8
8.0
7.5
6.2
5.0
4.1
1.1
22.5
18.2
14.8
12.6
11.0
8.6
7.4
6.0
5.3
-
-
-
-
1.7
42.4
32.5
28.0
24.0
20.8
17.0
14.0
12.2
10.8
9.5
3.0
108.0
88.0
69.0
60.0
51.5
40.0
33.0
29.0
25.0
22.0
19.5
17.8
16.0
-
-
8.0
193.2
146.5
120.0
104.0
87.2
66.5
54.4
45.6
40.0
35.2

US series
Max. Defl. 25% L ₀
R ± 10%
lbs./1 inch
21.0
14.6
12.5
10.5
9.0
7.5
6.3
1.5
31.0
24.0
19.2
17.0
14.0
11.5
9.4
8.0
7.1
-
-
-
2.4
63.0
43.8
37.0
31.0
28.0
22.0
19.0
15.4
13.5
12.0
4.5
140.0
110.0
89.0
75.0
66.0
50.0
40.5
34.5
30.0
26.5
23.5
21.5
19.5
-
-
9.5
243.7
187.6
160.0
133.9
116.0
89.6
73.6
62.4
55.2
48.8

DH	Dd	L0
inch	inch	inch
1	1/2	5
		5 1/2
		6
		7
		8
		12
1 1/4	5/8	1 1/2
		1 3/4
		2
		2 1/2
		3
		3 1/2
		4
		4 1/2
		5
		5 1/2
		6
		7
8		
10		
12		
1 1/2	3/4	2
		2 1/2
		3
		3 1/2
		4
		4 1/2
		5
		5 1/2
		6
		7
		8
		10
12		
2	1	2 1/2
		3
		3 1/2
		4
		4 1/2
		5
		5 1/2
		6
		7
		8
		10
		12
2 1/2	1 1/2	3
		3 1/2
		4
		4 1/2
		5
		5 1/2
		6
		7
		8
		9
		10
		12

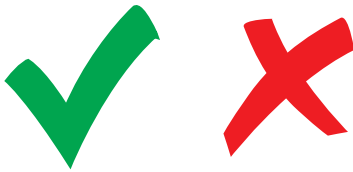
US series
Max. Defl. 50% L ₀
R ± 10%
lbs./1 inch
9.6
8.8
8.0
7.2
6.0
4.0
49.6
40.6
37.6
28.8
24.0
20.0
17.6
16.0
14.3
12.8
12.0
10.4
8.8
7.2
6.0
53.0
42.7
36.0
30.0
24.9
23.0
21.0
18.5
17.0
15.3
13.2
10.6
8.5
100.0
83.0
67.7
60.0
53.0
47.0
40.5
39.0
31.2
28.5
21.6
18.5
108.1
89.6
76.2
66.6
59.4
53.2
48.1
41.5
35.9
-
26.9
23.4

ROMS	ROHS	ROES
Medium Heavy Duty	Heavy Duty	Extra Heavy Duty
US series	US series	US series
Max. Defl. 37% L ₀	Max. Defl. 30% L ₀	Max. Defl. 25% L ₀
R ± 10%	R ± 10%	R ± 10%
lbs./1 inch	lbs./1 inch	lbs./1 inch
15.7	31.2	43.2
13.7	28.8	39.3
12.5	25.6	36.0
10.9	22.4	30.5
9.6	19.2	26.6
6.5	12.8	17.6
114.4	220.0	269.0
100.8	181.6	237.0
83.8	149.6	205.0
62.4	117.6	152.5
51.2	95.2	122.0
44.0	78.0	108.5
38.1	66.4	89.0
32.9	58.4	83.5
30.0	53.0	70.0
26.4	47.2	62.8
25.0	45.0	57.5
21.0	36.8	51.4
18.4	32.8	46.0
14.5	25.6	34.5
12.4	22.0	27.0
103.0	198.0	408.5
81.2	155.0	328.5
62.4	130.0	255.0
54.0	106.4	213.5
46.5	91.2	184.5
41.0	81.6	162.5
36.8	73.0	145.0
33.0	67.0	130.8
29.5	58.4	120.5
25.5	49.6	102.8
22.0	43.2	90.5
17.6	36.2	71.0
14.4	30.0	55.0
118.4	251.2	411.0
93.0	206.0	319.0
78.2	170.0	276.4
66.4	150.0	231.1
60.0	127.2	188.8
53.4	118.6	180.4
49.0	107.7	159.9
45.0	97.7	147.3
37.4	82.0	125.6
33.0	73.0	111.6
26.0	57.2	88.4
21.5	47.7	71.2
171.4	-	-
146.2	-	-
128.5	-	-
111.9	-	-
100.5	-	-
90.8	-	-
82.2	-	-
68.5	-	-
59.7	-	-
52.5	-	-
46.8	-	-
37.7	-	-



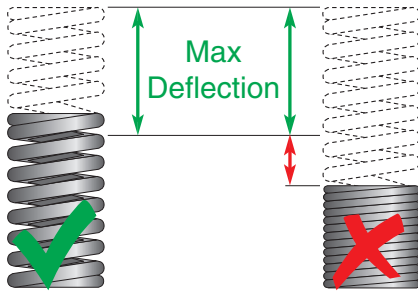
D_H	Hole diameter Diámetro del agujero de alojamiento	
D_d	Rod diameter Diámetro de la clavija de guía	
L₀	Spring free length Longitud libre del muelle	Tolerance Tolerancia
	inch	inch
	From 1" to 2"	+ 0.125 - 0
	From 2" 1/2 to 4"	+ 0.093 - 0
	From 5" to 7"	+ 0.187 - 0
	From 8" to 9"	+ 0.250 - 0
R	From 10" to 12"	+ 0.375 - 0
	Spring rate (lbs./1 inch) - load required to deflect by 0.04 inch Carga (lbs./1 inch) necesaria para desviar el muelle de 0.04 inch	
Max. Defl.	Deflection values near solid are intended for design information ONLY Los valores de deflexión por muelle a bloque están destinados SOLAMENTE a información de diseño	

USER RECOMMENDATIONS



EN The correct use of Special Springs' springs ensures longer life. Incorrect use can significantly reduce the expected life and may cause damage to the equipment.

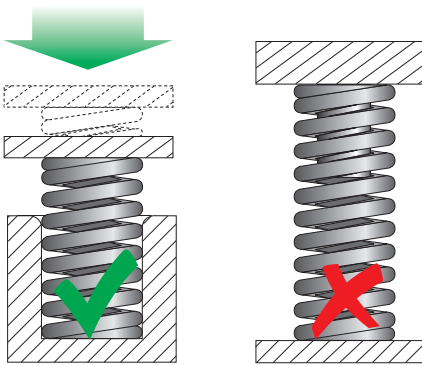
ES El uso correcto de los muelles Special Springs asegura una más larga duración. Utilizaciones incorrectas reducen significativamente los valores de duración y pueden provocar daños a la herramienta.



EN Do not exceed the maximum operating deflection (Column C) that is indicated for each spring in the catalog.

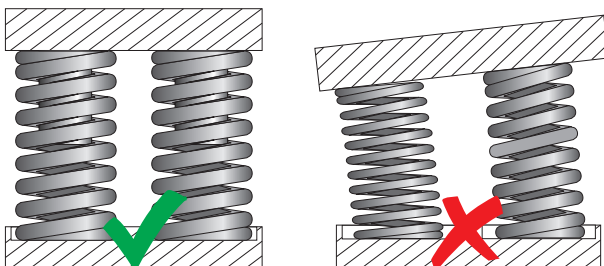
ES No exceda la deflexión máxima de funcionamiento (Columna C) que se indica en el catálogo para cada muelle.

Pre-load $\geq 5\% L_0$



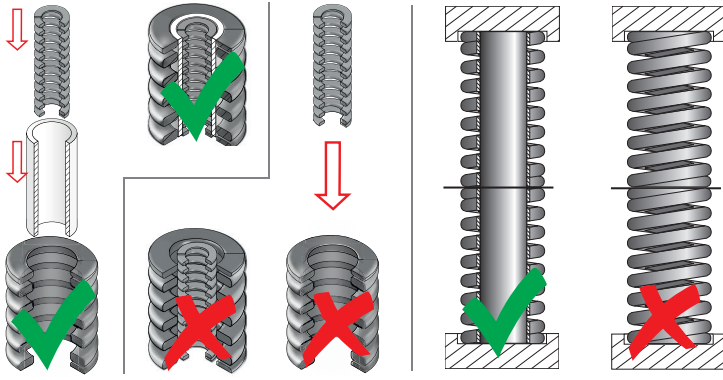
EN Pre-loading the spring to a minimum of 5% of the free length is strongly recommended. Pre-load will ensure longer life and optimum performance. Insufficient pre-load will reduce performance and spring life.

ES Se recomienda encarecidamente precargar el resorte a un mínimo del 5% de la longitud libre. La precarga asegurará una vida útil más larga y un rendimiento óptimo. Una precarga insuficiente reducirá el rendimiento y la vida útil del resorte.



EN To ensure perpendicularity and promote spring life, use springs that have similar forces and deflection rate.

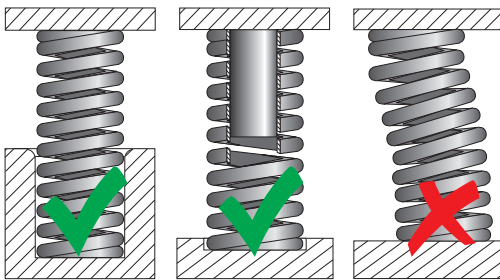
ES Para asegurar la perpendicularidad y garantizar la vida útil del resorte, utilice resortes que tengan fuerzas y rigidez de deflexión similares.



EN Stack springs only if guided. Coupled springs is an option provided the springs are not in contact.

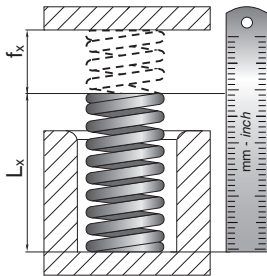
ES Muelles superpuestos solo si son guiados. Muelles acoplados es una opción solo si los muelles no están en contacto.

$$(L_0 / D_H) > 3.5$$



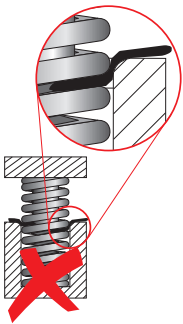
EN The bigger the guide the longer the lifetime. It is essential to always guide springs with a free length / diameter (L_0 / D_H) ratio exceeding 3.5.

ES Cuanto mayor sea el conjunto de dispositivos de guía, mayor será la duración de los muelles. Es siempre necesario guiar todos los muelles con una relación de longitud / diámetro (L_0 / D_H) mayor de 3.5.



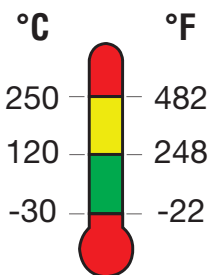
EN Tool maintenance can vary the original working deflection of the springs. Always check and re-set the original working stroke. Failure to do so may result in failures or damages of the tool.

ES Las mantenciones del molde pueden modificar la deflexión de trabajo original de los muelles. Controlar y restablecer siempre las deflexiones iniciales. El no hacerlo puede causar prematuros aflojamiento de los muelles o daños al molde.



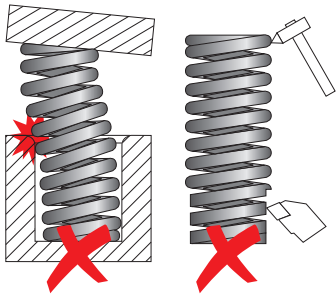
EN The presence of scrap or solid debris between the coils can cause a reduction of spring deflection, early failure, and damage to the tool. Check and remove scrap and debris.

ES La presencia de cuerpos extraños entre las espiras de los muelles provoca reducciones de carrera, sobrecargas y rupturas de los muelles con daños al molde. Siempre buscar y eliminar estos organismos.



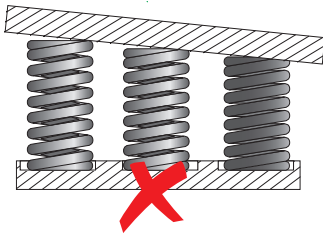
EN In the temperature range of 248 to 482°F (120 to 250°C) consider a loss between 1 to 2% of the load every 104°F (40°C).

ES En el rango de temperatura de 248 hasta 482°F (de 120 hasta 250°C) considerará una pérdida entre 1 y 2% de la carga cada 104°F (40 °C).

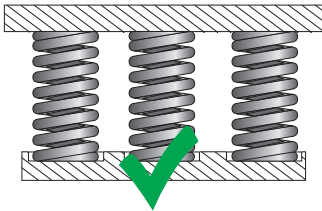


EN Any alteration on the surface of the springs (cutting, grinding, scratches) may significantly reduce the lifetime. Always replace the damaged springs.

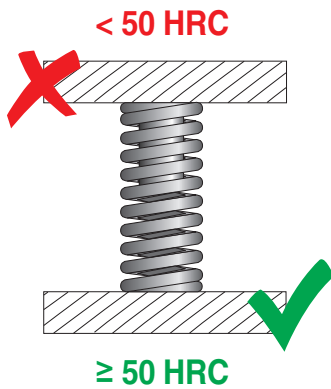
ES Cualquier daño sobre la superficie de los muelles (cortes, abrasiones, amoladuras) puede reducir significativamente la duración. Sustituir siempre los muelles dañados.



EN Schedule regular maintenance and replace worn or damaged springs. An unbalanced load is detrimental to the spring life.

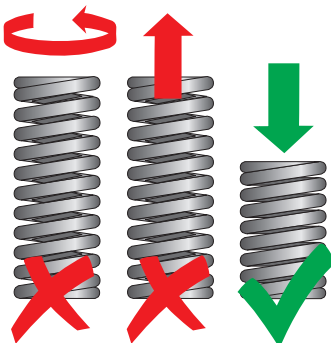


ES Programar un mantenimiento regular y reemplace los muelles desgastados o dañados. Una carga desequilibrada es perjudicial para la vida del muelle.



EN The springs are made from hardened alloy steel. The material of surfaces in contact with the springs shall feature adequate hardness to prevent wear and abrasion.

ES Los muelles están hechos con acero de aleación endurecido. El material de las superficies en contacto con los muelles debe presentar una dureza adecuada para evitar el desgaste y la abrasión.



EN Do not apply forces other than in compression direction. Using of compression springs as traction or torsion springs is cause of deformation and sudden failure. The improper use of springs may bring to unforeseen accidents with damage and injury.

ES No aplicar fuerzas que no sean de compresión. Utilizar los muelles en tracción o torsión es causa de deformación y rotura. El uso inadecuado de los muelles puede comportar incidentes imprevisibles con daños a cosas y personas.



EN Avoid storage of springs in the fully compressed position for long periods. Protect the springs from corrosive agents to prevent oxidation and early failures. Always replace rusty springs.

ES Evitar el almacenamiento de los muelles en posición completamente comprimida por largos periodos de tiempo. Proteger los muelles de agentes corrosivos para evitar oxidación y roturas prematuras. Sustituir siempre los muelles que presenten oxidación.



EN The compliance with RoHs and the material used allow to dispose springs as regular metal scrap.



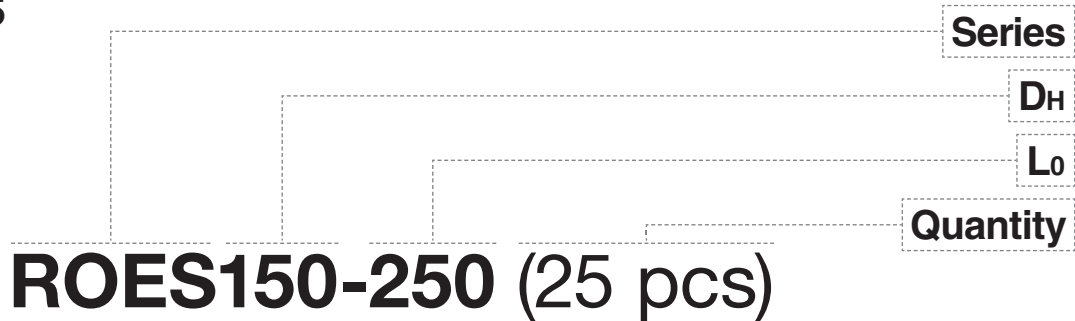
ES La conformidad con la directiva RoHs y los materiales utilizados permiten desechar los muelles como chatarra metálica normal.



HOW TO ORDER

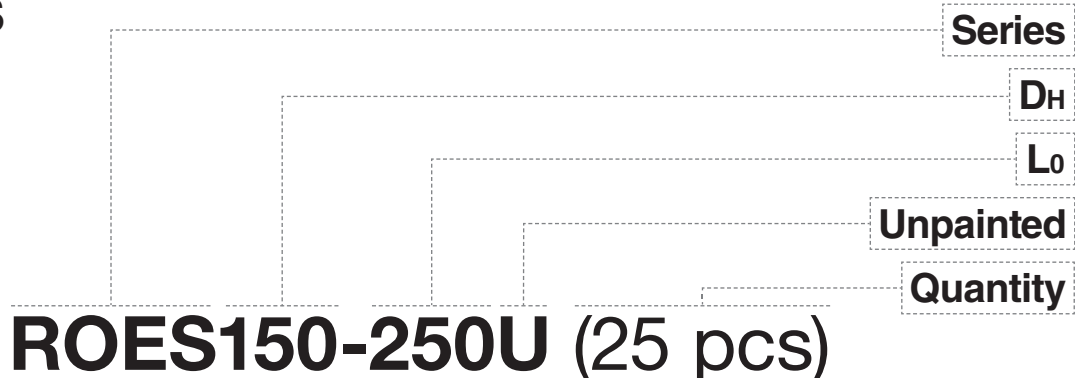
PAINTED SPRINGS

Example:



UNPAINTED SPRINGS

Example:



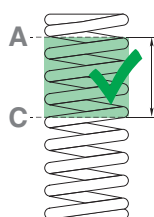
HOW TO CHECK SPRING RATE (R)



R ± 10% Spring rate

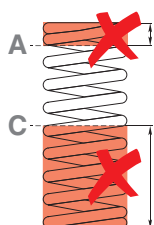
EN Spring rate (*lbs./1 inch* - N/mm) is the load required in *lbs* - N to deflect a spring by *0.04 inch* - 1 mm.

ES La constante (*lbs./1 inch* - N/mm) de los muelles es la carga requerida en *lbs* - N para comprimir un muelle *0.04 inch* - 1 mm.



EN Spring rate is verified considering the force values as stated in columns A and C.

ES La rigidez de los muelles se verifica considerando los valores de fuerza indicados en las columnas A y C.



EN Spring rate, when verified outside the indicated range of values, may result out of the ± 10% tolerance.

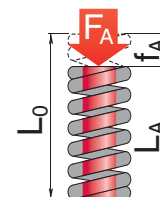
ES La rigidez de los muelles, cuando se verifica fuera del rango de valores indicado, puede resultar fuera de la tolerancia de ± 10%.

ROMS100-100

Calculation example - Ejemplo de cálculo - Exemple de calcul

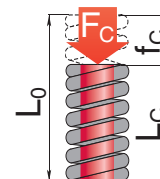
1 **EN** Deflect the spring to $f_A = 0.2 \text{ inch}$ - 5.1 mm (col. A) in relation to nominal length L_0 and then measure the force F_A (*lbs* - N)

ES Flexionar el muelle a una $f_A = 0.2 \text{ inch}$ - 5.1 mm (col. A) en relación con la longitud nominal L_0 y luego medir la fuerza F_A (*lbs* - N)



2 **EN** Deflect the spring to $f_C = 0.3 \text{ inch}$ - 7.6 mm (col. C) in relation to nominal length L_0 and measure the force F_C (*lbs* - N)

ES Flexionar el muelle a una $f_C = 0.3 \text{ inch}$ - 7.6 mm (col. C) en relación con la longitud nominal L_0 y luego mida la fuerza F_C (*lbs* - N)



3 **EN** Calculate the spring rate R by the following formula:

$$R = 0.1 \cdot (F_C - F_A) / (f_C - f_A) \text{ [lbs./1 inch]}$$

ES Calcular la constante R con la siguiente fórmula:

$$R = (F_C - F_A) / (f_C - f_A) \text{ [N/mm]}$$

4 **EN** The R value as resulted at point ③ shall correspond to the one stated in the catalog.

$$R = 82.7 \text{ lbs./1 inch } \pm 10\%$$

ES El valor R como resultado en el punto ③ debe corresponder al valor indicado en el catálogo.

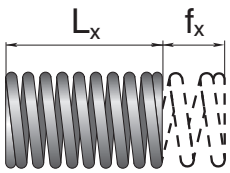
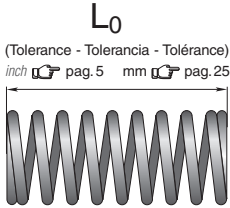
$$R = 144.8 \text{ N/mm } \pm 10\%$$

$$F_x = R \cdot f_x$$

Force at L_x

EN The spring force F_x at given deflection f_x is the result of the spring rate and the deflection value. It may be influenced by the tolerances of spring rate R and free length L_0 . Calculation is correct only when using deflection values in the range of columns A and C.

ES La fuerza de los muelles F_x a la deflexión dada f_x es el resultado de la rigidez de los muelles y el valor de deflexión. Puede estar influenciado por las tolerancias de la rigidez de muelles R y la longitud libre L_0 . El cálculo es correcto solo cuando se usan valores de deflexión en el rango de las columnas A y C.



ROMS125-300

Calculation example - Ejemplo de cálculo - Exemple de calcul

1 EN For a better understanding, the example below shows the calculation of the nominal value of force and the min and max values possible for the spring ROMS 125-300 at a given length L_x of 2.25 inch - 57.1 mm as follows:

ES Para una mejor comprensión, calculamos el valor nominal de fuerza y los valores mínimo y máximo admitidos para el muelle ROMS 125-300 con L_x de 2.25 inch - 57.1 mm como sigue:

$$R = 51.2 \text{ lbs./1 inch} \pm 10\% \quad R = 89.7 \text{ N/mm} \pm 10\%$$

$$R_{min} = 46.1 \text{ lbs./1 inch} \quad R_{min} = 80.7 \text{ N/mm}$$

$$R_{max} = 56.3 \text{ lbs./1 inch} \quad R_{max} = 98.7 \text{ N/mm}$$

$$L_0 = 3^{+0.125}_{-0} \text{ inch} \quad L_0 = 76.2^{+3.2}_{-0} \text{ mm}$$

$$L_{0min} = 3 \text{ inch} \quad L_{0min} = 76.2 \text{ mm}$$

$$L_{0max} = 3.125 \text{ inch} \quad L_{0max} = 79.4 \text{ mm}$$

L_0 (Tolerance - Tolerancia - Tolérance)
inch pag. 5 mm pag. 25

2 EN Nominal value of force ($F_{x \text{ nom}}$) will be:

$$F_{x \text{ nom}} = (R \cdot 10) \cdot (L_0 - L_x) \quad F_{x \text{ nom}} = R \cdot (L_0 - L_x)$$

ES El valor nominal de fuerza ($F_{x \text{ nom}}$) será:

$$F_{x \text{ nom}} = (51.2 \cdot 10) \cdot (3 - 2.25) \quad F_{x \text{ nom}} = 89.7 \cdot (76.2 - 57.1)$$

$$F_{x \text{ nom}} = 384 \text{ lbs} \quad F_{x \text{ nom}} = 1713 \text{ N}$$

3 EN Min value of force ($F_{x \text{ min}}$) will be:

$$F_{x \text{ min}} = (R_{min} \cdot 10) \cdot (L_{0 \text{ min}} - L_x) \quad F_{x \text{ min}} = R_{min} \cdot (L_{0 \text{ min}} - L_x)$$

ES El valor mínimo de fuerza ($F_{x \text{ min}}$) será:

$$F_{x \text{ min}} = (46.1 \cdot 10) \cdot (3 - 2.25) \quad F_{x \text{ min}} = 80.7 \cdot (76.2 - 57.1)$$

$$F_{x \text{ min}} = 345.8 \text{ lbs} \quad F_{x \text{ min}} = 1675.1 \text{ N}$$

4 EN Max value of force ($F_{x \text{ max}}$) will be:

$$F_{x \text{ max}} = (R_{max} \cdot 10) \cdot (L_{0 \text{ max}} - L_x) \quad F_{x \text{ max}} = R_{max} \cdot (L_{0 \text{ max}} - L_x)$$

ES El valor máximo de fuerza ($F_{x \text{ max}}$) será:

$$F_{x \text{ max}} = (56.3 \cdot 10) \cdot (3.125 - 2.25) \quad F_{x \text{ max}} = 98.7 \cdot (79.4 - 57.1)$$

$$F_{x \text{ max}} = 492.6 \text{ lbs} \quad F_{x \text{ max}} = 2201 \text{ N}$$

HOW TO SELECT SPRINGS



1 EN For a quick selection of the spring, you are requested to define estimated life, hole diameter, total force and total working deflection including at least 5% pre-load.

ES Para una selección rápida del resorte, se le solicita que defina la vida útil estimada, el diámetro del agujero de alojamiento, la fuerza total y la deflexión total de trabajo, incluida al menos el 5% de precarga.

2 EN Find the estimated life and the hole diameter DH as stated in chart at page 13.

ES Encontrar la vida estimada y el diámetro del agujero de alojamiento DH como se indica en la tabla en la página 13.

Estimated Life	DH - Hole diameter (inch - mm)						
	3/8 - 9.53	1/2 - 12.70	5/8 - 15.88	3/4 - 19.05	1 - 25.4	1 1/4 - 31.75	1 1/2 - 38.10
	Load (lbs - N)						
	16 - 71	26 - 114	42 - 188	75 - 334	128 - 571	799 - 180	261 - 1162
For Optimum Life	19 - 84	29 - 131	59 - 263	91 - 407	158 - 705	1372 - 308	369 - 1643
	19 - 83	33 - 146	63 - 279	152 - 678	250 - 1111	1858 - 418	553 - 2459
	28 - 126	44 - 194	84 - 373	188 - 837	335 - 1492	2464 - 554	1111 - 4942

3 EN Check the available forces as stated in chart at page 13.

ES Verificar las fuerzas disponibles como se indica en la tabla en la página 13.

Estimated Life	DH - Hole diameter (inch - mm)						
	3/8 - 9.53	1/2 - 12.70	5/8 - 15.88	3/4 - 19.05	1 - 25.4	1 1/4 - 31.75	1 1/2 - 38.10
	Load (lbs - N)						
	16 - 71	26 - 114	42 - 188	75 - 334	128 - 571	799 - 180	261 - 1162
For Optimum Life	19 - 84	29 - 131	59 - 263	91 - 407	158 - 705	1372 - 308	369 - 1643
	19 - 83	33 - 146	63 - 279	152 - 678	250 - 1111	1858 - 418	553 - 2459
	28 - 126	44 - 194	84 - 373	188 - 837	335 - 1492	2464 - 554	1111 - 4942

4 EN Select the requested force and the corresponding Series as stated in chart at page 13.

ES Seleccionar la fuerza solicitada y la serie correspondiente como se indica en la tabla en la página 13.

Load (lbs - N)	DH - Hole diameter (inch - mm)							Series
	3/8 - 9.53	1/2 - 12.70	5/8 - 15.88	3/4 - 19.05	1 - 25.4	1 1/4 - 31.75	1 1/2 - 38.10	
16 - 71	26 - 114	42 - 188	75 - 334	128 - 571	799 - 180	261 - 1162	ROIS	
19 - 84	29 - 131	59 - 263	91 - 407	158 - 705	1372 - 308	369 - 1643	ROMS	
19 - 83	33 - 146	63 - 279	152 - 678	250 - 1111	1858 - 418	553 - 2459	ROUS	
28 - 126	44 - 194	84 - 373	188 - 837	335 - 1492	2464 - 554	1111 - 4942	ROES	

5 EN Choose the requested deflection in the selected Series.

ES Elegir la deflexión solicitada en la Serie seleccionada.

see Series pages - vea las paginas de la serie - voir les pages de la série

Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring rate	A		B		C		D		BOX
					20% L ₀	25% L ₀	30% L ₀	37% L ₀	in	Pcs			
	inch	inch	inch	lbs./in	inch	lbs	inch	lbs	inch	lbs	inch	lbs	
ROMS37-100	1	3/8	8.4	0.20	16.8	0.25	21.0	0.30	25.2	0.37	30.6	0.46	200
ROMS37-125	1 1/4	7/8	7.3	0.25	18.3	0.31	22.8	0.38	27.4	0.46	30.6	0.66	100
ROMS37-150	1 1/2	1	6.7	0.30	20.1	0.38	25.1	0.45	30.2	0.56	30.6	0.66	100
ROMS37-175	1 3/4	1 1/8	5.8	0.35	20.3	0.44	25.4	0.53	30.5	0.65	30.6	0.74	100
ROMS37-200	2	1 1/4	5.0	0.40	20.0	0.50	25.0	0.60	30.0	0.74	30.6	0.93	100
ROMS37-250	2 1/2	1 3/4	3.7	0.50	18.5	0.63	23.3	0.75	27.8	0.93	30.6	1.11	100
ROMS37-300	3	2	3.0	0.60	18.0	0.75	22.5	0.90	27.0	1.11	30.6	1.49	100
ROMS37-1200	12	12	0.8	2.40	19.2	3.00	24.0	3.60	28.8	4.44	30.6	9.00	50

6 EN Once chosen the deflection, select the spring's part number.

ES Una vez elegida la deflexión, seleccionar el código del muelle.

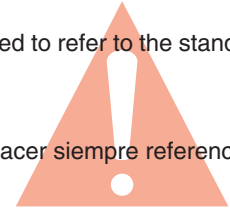
see Series pages - vea las paginas de la serie - voir les pages de la série

Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring rate	A		B		C		D		BOX
					20% L ₀	25% L ₀	30% L ₀	37% L ₀	in	Pcs			
	inch	inch	inch	lbs./in	inch	lbs	inch	lbs	inch	lbs	inch	lbs	
ROMS37-100	1	3/8	8.4	0.20	16.8	0.25	21.0	0.30	25.2	0.37	30.6	0.46	200
ROMS37-125	1 1/4	7/8	7.3	0.25	18.3	0.31	22.8	0.38	27.4	0.46	30.6	0.66	100
ROMS37-150	1 1/2	1	6.7	0.30	20.1	0.38	25.1	0.45	30.2	0.56	30.6	0.66	100
ROMS37-175	1 3/4	1 1/8	5.8	0.35	20.3	0.44	25.4	0.53	30.5	0.65	30.6	0.74	100
ROMS37-200	2	1 1/4	5.0	0.40	20.0	0.50	25.0	0.60	30.0	0.74	30.6	0.93	100
ROMS37-250	2 1/2	1 3/4	3.7	0.50	18.5	0.63	23.3	0.75	27.8	0.93	30.6	1.11	100
ROMS37-300	3	2	3.0	0.60	18.0	0.75	22.5	0.90	27.0	1.11	30.6	1.49	100
ROMS37-1200	12	12	0.8	2.40	19.2	3.00	24.0	3.60	28.8	4.44	30.6	9.00	50

Estimated Life	DH - Hole diameter (inch - mm)									Series
	3/8 - 9.53	1/2 - 12.70	5/8 - 15.88	3/4 - 19.05	1 - 25.40	1 1/4 - 31.75	1 1/2 - 38.10	2 - 50.80	2 1/2 - 63	
For Optimum Life	Load (lbs - N)									
	16 - 71	26 - 114	42 - 188	75 - 334	128 - 571	180 - 799	261 - 1162	581 - 2586	738 - 3284	ROLS
	19 - 84	29 - 131	59 - 263	91 - 407	158 - 705	308 - 1372	369 - 1643	539 - 2398	981 - 4365	ROMS
	19 - 83	33 - 146	63 - 279	152 - 678	250 - 1111	418 - 1858	553 - 2459	889 - 3953	-	ROHS
	28 - 126	44 - 194	84 - 373	188 - 837	335 - 1492	554 - 2464	1111 - 4942	1367 - 6082	-	ROES
For Long Life	Load (lbs - N)									
	22 - 100	36 - 159	59 - 261	105 - 468	180 - 799	252 - 1119	366 - 1627	814 - 3620	1033 - 4597	ROLS
	24 - 105	37 - 164	74 - 329	115 - 510	199 - 883	614 - 2733	463 - 2058	674 - 3000	1227 - 5460	ROMS
	25 - 110	44 - 194	83 - 370	202 - 900	332 - 1475	555 - 2469	735 - 3269	1181 - 5254	-	ROHS
	32 - 143	49 - 220	95 - 422	213 - 947	379 - 1688	629 - 2796	1259 - 5599	1549 - 6889	-	ROES
Max. Operating Deflection	Load (lbs - N)									
	26 - 114	41 - 182	68 - 301	120 - 535	201 - 895	288 - 1279	418 - 1859	930 - 4138	1181 - 5254	ROLS
	28 - 126	44 - 197	89 - 395	137 - 611	238 - 1057	463 - 2058	554 - 2465	809 - 3597	1472 - 6550	ROMS
	31 - 139	55 - 243	104 - 464	254 - 1128	415 - 1847	696 - 3095	920 - 4093	1479 - 6580	-	ROHS
	38 - 167	58 - 258	110 - 488	250 - 1110	428 - 1904	722 - 3211	1461 - 6499	1796 - 7988	-	ROES

EN The selecting guideline is an approximate method of spring selection. It is always recommended to refer to the standard tabs before using the spring.

ES El método indicado para la selección de los muelles es aproximativo. Por eso aconsejamos hacer siempre referencia a las tablas para la selección.



SAMPLE PAGE

2

1

ROMS US SERIES

EN Medium heavy duty die springs
Silver-red color

ES Muelles carga medio-fuerte
Color plateado-rojo

RoHS

TEMPERATURE

°C	260
°F	462
°C	-30
°F	-22

IX

CAD

PAINT

Silver Red

COAT

L0 pag. 5

3
4
6
8
9
10
11
12

Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX			
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	20% L ₀	25% L ₀	30% L ₀	37% L ₀				
	inch	inch	inch	± 10% lbs./1 inch	inch	inch	inch	inch	Pcs			
ROMS37-100			1	8.4	0.20	16.8	0.25	21.0	0.30	25.2	0.37	200
ROMS37-125			1 1/4	7.3	0.25	18.3	0.31	22.8	0.38	27.4	0.46	200
ROMS37-150			1 1/2	6.7	0.30	20.1	0.38	25.1	0.45	30.2	0.56	100
ROMS37-175			1 3/4	5.8	0.35	20.3	0.44	25.4	0.53	30.5	0.65	100
ROMS37-200	3/8	3/16	2	5.0	0.40	20.0	0.50	25.0	0.60	30.0	0.74	100
ROMS37-250			2 1/2	3.7	0.50	18.5	0.63	23.3	0.75	27.8	0.93	100
ROMS37-300			3	3.0	0.60	18.0	0.75	22.5	0.90	27.0	1.11	100
ROMS37-1200			12	0.8	2.40	19.2	3.00	24.0	3.60	28.8	4.44	50
ROMS50-100			1	15.5	0.20	31.0	0.25	38.8	0.30	46.5	0.37	100
ROMS50-125			1 1/4	12.2	0.25	30.5	0.31	37.8	0.38	45.8	0.46	100
ROMS50-150			1 1/2	9.8	0.30	29.4	0.38	37.2	0.45	44.1	0.56	100
ROMS50-175			1 3/4	8.5	0.35	29.8	0.44	37.2	0.53	44.6	0.65	100
ROMS50-200	1/2	9/32	2	7.5	0.40	30.0	0.50	37.5	0.60	45.0	0.74	100
ROMS50-250			2 1/2	6.0	0.50	30.0	0.63	37.5	0.75	45.0	0.93	50
ROMS50-300			3	5.1	0.60	30.6	0.75	38.3	0.90	45.9	1.11	50
ROMS50-350			3 1/2	4.0	0.70	28.0	0.88	35.0	1.05	42.0	1.30	50
ROMS50-400			4	3.7	0.80	29.0	1.00	37.0	1.20	44.0	1.48	50
ROMS50-1200			12	1.1	2.40	26.4	3.00	33.0	3.60	39.6	4.44	50
ROMS62-100			1	30.0	0.20	60.0	0.25	75.0	0.30	90.0	0.37	100
ROMS62-125			1 1/4	21.5	0.25	53.8	0.31	67.2	0.38	80.6	0.46	100
ROMS62-150			1 1/2	19.0	0.30	57.0	0.38	71.3	0.45	85.5	0.56	100
ROMS62-175			1 3/4	16.8	0.35	58.8	0.44	73.5	0.53	88.2	0.65	50
ROMS62-200	5/8	11/32	2	15.5	0.40	62.0	0.50	77.5	0.60	93.0	0.74	50
ROMS62-250			2 1/2	11.5	0.50	57.5	0.63	71.9	0.75	86.3	0.93	50
ROMS62-300			3	10.0	0.60	60.0	0.75	75.0	0.90	90.0	1.11	50
ROMS62-350			3 1/2	8.5	0.70	59.5	0.88	74.4	1.05	89.3	1.30	50
ROMS62-400			4	7.6	0.80	60.8	1.00	76.0	1.20	91.2	1.48	50
ROMS62-450			4 1/2	6.6	0.90	82.0	1.13	74.0	1.35	89.0	1.67	50
ROMS62-1200			12	2.6	2.40	62.4	3.00	78.0	3.60	93.6	4.44	50

5
7

*Deflection values near solid intended for design information ONLY. The color silver-red is a registered trademark of Special Springs Srl.

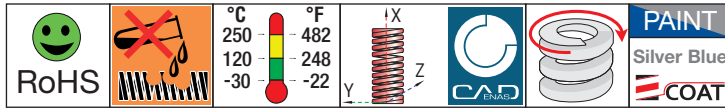
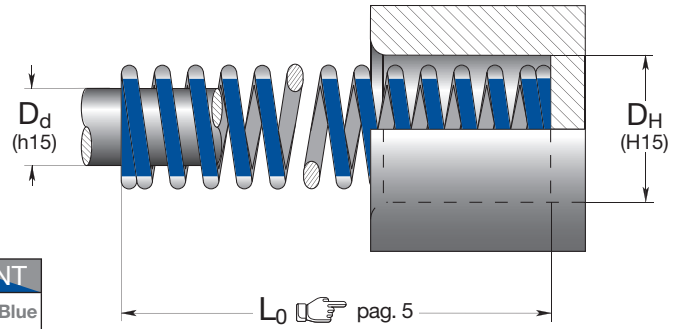
18

Load (lbs) = R (lbs./1 inch) x 10 x Deflection (inch) 1 lbs = 4.448 N

<p>1 Series Serie</p>	<p>2 Standards Estándares</p>
<p>3 Part number Código</p>	<p>4 Hole diameter Diámetro del agujero de alojamiento</p>
<p>5 Rod diameter Diámetro de la clavija de guía</p>	<p>6 Spring free length Longitud libre del muelle</p>
<p>7 Spring Rate (<i>lbs./1 inch - N/mm</i>) - load required to deflect by <i>0.04 inch - 1mm</i> Carga (<i>lbs./1 inch - N/mm</i>) necesaria para desviar el muelle de <i>0.04 inch - 1mm</i></p>	
<p>8 Recommended maximum working deflection for optimum life Deflexión máxima de trabajo recomendada para una duración óptima</p>	
<p>9 Recommended maximum working deflection for long life Deflexión máxima de trabajo recomendada para una larga duración</p>	
<p>10 Maximum operating deflection. Do not exceed this value Deflexión máxima de trabajo. No se debe exceder este valor</p>	
<p>11 Deflection values near solid are intended for design information ONLY Los valores de deflexión por muelle a bloque están destinados SOLAMENTE a información de diseño</p>	
<p>12 Quantity for standard packaging Número de piezas por confección</p>	

EN Medium duty die springs
Silver-blue color

ES Muelles carga mediana
Color plateado-azul



Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Rate ± 10%	A 25% L ₀ For Optimum Life		B 35% L ₀ For Long Life		C 40% L ₀ Max. Operating Def.		D* 50% L ₀ Max. Deflection	BOX Pcs
					inch	lbs	inch	lbs	inch	lbs	inch	
ROLS37-100	3/8	3/16	1	6.0	0.25	15.0	0.35	21.0	0.40	24.0	0.50	200
ROLS37-125			1 1/4	5.0	0.31	15.6	0.44	21.9	0.50	25.0	0.63	200
ROLS37-150			1 1/2	4.2	0.38	15.8	0.53	22.1	0.60	25.2	0.75	100
ROLS37-175			1 3/4	3.7	0.44	16.2	0.61	22.7	0.70	25.9	0.88	100
ROLS37-200			2	3.1	0.50	15.5	0.70	21.7	0.80	24.8	1.00	100
ROLS37-250			2 1/2	2.6	0.63	16.3	0.88	22.8	1.00	26.0	1.25	100
ROLS37-300			3	2.1	0.75	15.8	1.05	22.0	1.20	25.2	1.50	100
ROLS37-1200			12	0.6	3.00	18.0	4.20	25.2	4.80	28.8	6.00	50
ROLS50-100	1/2	9/32	1	11.0	0.25	27.5	0.35	38.5	0.40	44.0	0.50	100
ROLS50-125			1 1/4	8.2	0.31	25.6	0.44	35.9	0.50	41.0	0.63	100
ROLS50-150			1 1/2	6.8	0.38	25.5	0.53	35.7	0.60	40.8	0.75	100
ROLS50-175			1 3/4	6.0	0.44	26.3	0.61	36.8	0.70	42.0	0.88	100
ROLS50-200			2	5.5	0.50	27.5	0.70	38.5	0.80	44.0	1.00	100
ROLS50-250			2 1/2	4.5	0.63	28.1	0.88	39.4	1.00	45.0	1.25	50
ROLS50-300			3	3.5	0.75	26.3	1.05	36.8	1.20	42.0	1.50	50
ROLS50-350			3 1/2	3.0	0.88	26.3	1.23	36.8	1.40	42.0	1.75	50
ROLS50-400			4	2.6	1.00	26.0	1.40	36.0	1.60	41.0	2.00	50
ROLS50-450			4 1/2	2.3	1.13	25.9	1.58	36.2	1.80	41.4	2.25	50
ROLS50-550			5 1/2	2.0	1.38	27.5	1.93	38.5	2.20	44.0	2.75	50
ROLS50-650			6 1/2	1.4	1.63	22.8	2.28	31.9	2.60	36.4	3.25	50
ROLS50-750			7 1/2	1.2	1.88	22.5	2.63	31.5	3.00	36.0	3.75	50
ROLS50-1200			12	0.7	3.00	21.0	4.20	29.4	4.80	33.6	6.00	50
ROLS62-100	5/8	11/32	1	16.4	0.25	41.0	0.35	57.4	0.40	65.6	0.50	100
ROLS62-125			1 1/4	12.4	0.31	38.8	0.44	54.3	0.50	62.0	0.63	100
ROLS62-150			1 1/2	10.8	0.38	40.5	0.53	56.7	0.60	64.8	0.75	100
ROLS62-175			1 3/4	9.6	0.44	42.0	0.61	58.8	0.70	67.2	0.88	50
ROLS62-200			2	8.6	0.50	43.0	0.70	60.2	0.80	68.8	1.00	50
ROLS62-250			2 1/2	6.5	0.63	40.6	0.88	56.9	1.00	65.0	1.25	50
ROLS62-300			3	5.8	0.75	43.5	1.05	60.9	1.20	69.6	1.50	50
ROLS62-350			3 1/2	5.0	0.88	43.8	1.23	61.3	1.40	70.0	1.75	50
ROLS62-400			4	4.4	1.00	44.0	1.40	61.6	1.60	70.4	2.00	50
ROLS62-450			4 1/2	3.8	1.13	43.0	1.57	60.0	1.80	69.0	2.25	50
ROLS62-1200			12	1.5	3.00	45.0	4.20	63.0	4.80	72.0	6.00	50
ROLS75-100			3/4	3/8	1	32.0	0.25	80.0	0.35	112.0	0.40	128.0
ROLS75-125	1 1/4	25.6			0.31	80.0	0.44	112.0	0.50	128.0	0.63	50
ROLS75-150	1 1/2	20.0			0.38	75.0	0.53	105.0	0.60	120.0	0.75	50
ROLS75-175	1 3/4	17.6			0.44	77.0	0.61	107.8	0.70	123.2	0.88	50
ROLS75-200	2	15.0			0.50	75.0	0.70	105.0	0.80	120.0	1.00	50
ROLS75-250	2 1/2	12.0			0.63	75.0	0.88	105.0	1.00	120.0	1.25	50
ROLS75-300	3	10.1			0.75	75.8	1.05	106.1	1.20	121.2	1.50	50
ROLS75-350	3 1/2	8.3			0.88	72.6	1.23	101.7	1.40	116.2	1.75	50
ROLS75-400	4	7.5			1.00	75.0	1.40	105.0	1.60	120.0	2.00	50
ROLS75-450	4 1/2	6.4			1.13	72.0	1.58	100.8	1.80	115.2	2.25	50
ROLS75-500	5	6.0			1.25	75.0	1.75	105.0	2.00	120.0	2.50	50
ROLS75-550	5 1/2	5.5			1.38	75.6	1.93	105.9	2.20	121.0	2.75	50
ROLS75-600	6	5.0			1.50	75.0	2.10	105.0	2.40	120.0	3.00	50
ROLS75-650	6 1/2	4.7			1.63	76.4	2.28	106.9	2.60	122.2	3.25	50
ROLS75-750	7 1/2	3.8			1.88	71.3	2.63	99.8	3.00	114.0	3.75	50
ROLS75-1200	12	2.4			3.00	72.0	4.20	100.8	4.80	115.2	6.00	50

*Deflection values near solid intended for design information ONLY.

The color silver-blue is a registered trademark of Special Springs Srl.

Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs					
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	25% L ₀	35% L ₀	40% L ₀	50% L ₀						
	inch	inch	inch	± 10% lbs./1 inch	For Optimum Life inch lbs	For Long Life inch lbs	Max. Operating Def. inch lbs	Max. Deflection inch						
ROLS100-100	1	1/2	1	55.0	0.25	137.5	0.35	192.5	0.40	220.0	0.50	50		
ROLS100-125			1 1/4	45.0	0.31	140.6	0.44	196.9	0.50	225.0	0.63	50		
ROLS100-150			1 1/2	37.3	0.38	139.9	0.53	195.8	0.60	223.8	0.75	50		
ROLS100-175			1 3/4	32.0	0.44	140.0	0.61	196.0	0.70	224.0	0.88	50		
ROLS100-200			2	26.8	0.50	134.0	0.70	187.6	0.80	214.4	1.00	50		
ROLS100-250			2 1/2	20.9	0.63	130.6	0.88	182.9	1.00	209.0	1.25	50		
ROLS100-300			3	17.1	0.75	128.3	1.05	179.6	1.20	205.2	1.50	25		
ROLS100-350			3 1/2	14.5	0.88	126.9	1.23	177.6	1.40	203.0	1.75	25		
ROLS100-400			4	12.5	1.00	125.0	1.40	175.0	1.60	200.0	2.00	25		
ROLS100-450			4 1/2	11.0	1.13	123.8	1.58	173.3	1.80	198.0	2.25	25		
ROLS100-500			5	9.6	1.25	120.0	1.75	168.0	2.00	192.0	2.50	25		
ROLS100-550			5 1/2	8.8	1.38	121.0	1.93	169.4	2.20	193.6	2.75	25		
ROLS100-600			6	8.0	1.50	120.0	2.10	168.0	2.40	192.0	3.00	25		
ROLS100-700			7	7.2	1.75	126.0	2.45	176.4	2.80	201.6	3.50	25		
ROLS100-800	8	6.0	2.00	120.0	2.80	168.0	3.20	192.0	4.00	25				
ROLS100-1200	12	4.0	3.00	120.0	4.20	168.0	4.80	192.0	6.00	25				
ROLS125-150	1 1/4	5/8	1 1/2	49.6	0.38	186.0	0.53	260.4	0.60	297.6	0.75	50		
ROLS125-175			1 3/4	40.6	0.44	177.6	0.61	248.7	0.70	284.2	0.88	50		
ROLS125-200			2	37.6	0.50	188.0	0.70	263.2	0.80	300.8	1.00	50		
ROLS125-250			2 1/2	28.8	0.63	180.0	0.88	252.0	1.00	288.0	1.25	25		
ROLS125-300			3	24.0	0.75	180.0	1.05	252.0	1.20	288.0	1.50	25		
ROLS125-350			3 1/2	20.0	0.88	175.0	1.23	245.0	1.40	280.0	1.75	25		
ROLS125-400			4	17.6	1.00	176.0	1.40	246.4	1.60	281.6	2.00	25		
ROLS125-450			4 1/2	16.0	1.13	180.0	1.58	252.0	1.80	288.0	2.25	25		
ROLS125-500			5	14.3	1.25	178.8	1.75	250.3	2.00	286.0	2.50	25		
ROLS125-550			5 1/2	12.8	1.38	176.0	1.93	246.4	2.20	281.6	2.75	25		
ROLS125-600			6	12.0	1.50	180.0	2.10	252.0	2.40	288.0	3.00	25		
ROLS125-700			7	10.4	1.75	182.0	2.45	254.8	2.80	291.2	3.50	25		
ROLS125-800			8	8.8	2.00	176.0	2.80	246.4	3.20	281.6	4.00	25		
ROLS125-1000			10	7.2	2.50	180.0	3.50	252.0	4.00	288.0	5.00	25		
ROLS125-1200	12	6.0	3.00	180.0	4.20	252.0	4.80	288.0	6.00	25				
ROLS150-200	1 1/2	3/4	2	53.0	0.50	265.0	0.70	371.0	0.80	424.0	1.00	25		
ROLS150-250			2 1/2	42.7	0.63	266.9	0.88	373.6	1.00	427.0	1.25	25		
ROLS150-300			3	36.0	0.75	270.0	1.05	378.0	1.20	432.0	1.50	25		
ROLS150-350			3 1/2	30.0	0.88	262.5	1.23	367.5	1.40	420.0	1.75	25		
ROLS150-400			4	24.9	1.00	249.0	1.40	348.6	1.60	398.4	2.00	25		
ROLS150-450			4 1/2	23.0	1.13	258.8	1.58	362.3	1.80	414.0	2.25	25		
ROLS150-500			5	21.0	1.25	262.5	1.75	367.5	2.00	420.0	2.50	25		
ROLS150-550			5 1/2	18.5	1.38	254.4	1.93	356.1	2.20	407.0	2.75	25		
ROLS150-600			6	17.0	1.50	255.0	2.10	357.0	2.40	408.0	3.00	25		
ROLS150-700			7	15.3	1.75	267.8	2.45	374.9	2.80	428.4	3.50	25		
ROLS150-800			8	13.2	2.00	264.0	2.80	369.6	3.20	422.4	4.00	25		
ROLS150-1000			10	10.6	2.50	265.0	3.50	371.0	4.00	424.0	5.00	25		
ROLS150-1200			12	8.5	3.00	255.0	4.20	357.0	4.80	408.0	6.00	25		
ROLS200-250			2	1	2 1/2	100.0	0.63	625.0	0.88	875.0	1.00	1000.0	1.25	25
ROLS200-300	3	83.0			0.75	622.5	1.05	871.5	1.20	996.0	1.50	25		
ROLS200-350	3 1/2	67.7			0.88	592.4	1.23	829.3	1.40	947.8	1.75	25		
ROLS200-400	4	60.0			1.00	600.0	1.40	840.0	1.60	960.0	2.00	25		
ROLS200-450	4 1/2	53.0			1.13	596.3	1.58	834.8	1.80	954.0	2.25	25		
ROLS200-500	5	47.0			1.25	587.5	1.75	822.5	2.00	940.0	2.50	25		
ROLS200-550	5 1/2	40.5			1.38	556.9	1.93	779.6	2.20	891.0	2.75	25		
ROLS200-600	6	39.0			1.50	585.0	2.10	819.0	2.40	936.0	3.00	25		
ROLS200-700	7	31.2			1.75	546.0	2.45	764.4	2.80	873.6	3.50	25		
ROLS200-800	8	28.5			2.00	570.0	2.80	798.0	3.20	912.0	4.00	10		
ROLS200-1000	10	21.6			2.50	540.0	3.50	756.0	4.00	864.0	5.00	10		
ROLS200-1200	12	18.5			3.00	555.0	4.20	777.0	4.80	888.0	6.00	10		
ROLS250-300	2 1/2	1 1/2			3	108.1	0.75	813.0	1.05	1136.0	1.20	1298.0	1.50	15
ROLS250-350					3 1/2	89.6	0.87	783.0	1.22	1097.0	1.40	1256.0	1.75	15
ROLS250-400			4	76.2	1.00	762.0	1.40	1068.0	1.60	1218.0	2.00	15		
ROLS250-450			4 1/2	66.6	1.13	750.0	1.57	1049.0	1.80	1199.0	2.25	15		
ROLS250-500			5	59.4	1.25	743.0	1.75	1040.0	2.00	1188.0	2.50	5		
ROLS250-550			5 1/2	53.2	1.37	730.0	1.93	1024.0	2.20	1170.0	2.75	5		
ROLS250-600			6	48.1	1.50	722.0	2.10	1010.0	2.40	1156.0	3.00	5		
ROLS250-700			7	41.5	1.75	726.0	2.45	1015.0	2.80	1160.0	3.50	5		
ROLS250-800			8	35.9	2.00	717.0	2.80	1004.0	3.20	1148.0	4.00	5		
ROLS250-1000			10	26.9	2.50	672.0	3.50	941.0	4.00	1076.0	5.00	5		
ROLS250-1200			12	23.4	3.00	702.0	4.20	984.0	4.80	1124.0	6.00	5		

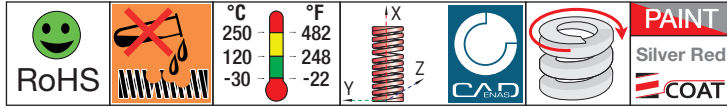
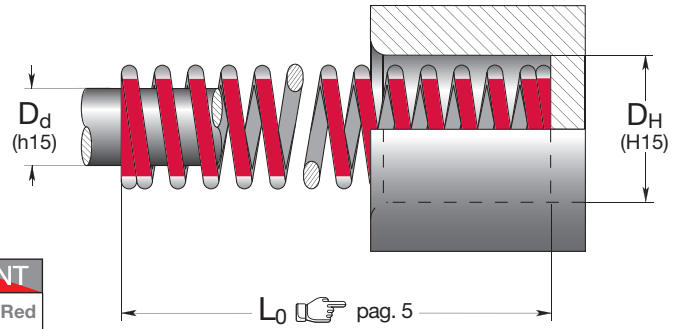
The color silver-blue is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

Load (lbs) = R (lbs./1 inch) x 10 x Deflection (inch) 1 lb = 4.448 N

EN Medium heavy duty die springs
Silver-red color

ES Muelles carga medio-fuerte
Color plateado-rojo



Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Rate ± 10%	A 20% L ₀ For Optimum Life		B 25% L ₀ For Long Life		C 30% L ₀ Max. Operating Def.		D* 37% L ₀ Max. Deflection	BOX Pcs
					inch	lbs	inch	lbs	inch	lbs	inch	
ROMS37-100	3/8	3/16	1	8.4	0.20	16.8	0.25	21.0	0.30	25.2	0.37	200
ROMS37-125			1 1/4	7.3	0.25	18.3	0.31	22.8	0.38	27.4	0.46	200
ROMS37-150			1 1/2	6.7	0.30	20.1	0.38	25.1	0.45	30.2	0.56	100
ROMS37-175			1 3/4	5.8	0.35	20.3	0.44	25.4	0.53	30.5	0.65	100
ROMS37-200			2	5.0	0.40	20.0	0.50	25.0	0.60	30.0	0.74	100
ROMS37-250			2 1/2	3.7	0.50	18.5	0.63	23.3	0.75	27.8	0.93	100
ROMS37-300			3	3.0	0.60	18.0	0.75	22.5	0.90	27.0	1.11	100
ROMS37-1200			12	0.8	2.40	19.2	3.00	24.0	3.60	28.8	4.44	50
ROMS50-100	1/2	9/32	1	15.5	0.20	31.0	0.25	38.8	0.30	46.5	0.37	100
ROMS50-125			1 1/4	12.2	0.25	30.5	0.31	37.8	0.38	45.8	0.46	100
ROMS50-150			1 1/2	9.8	0.30	29.4	0.38	37.2	0.45	44.1	0.56	100
ROMS50-175			1 3/4	8.5	0.35	29.8	0.44	37.2	0.53	44.6	0.65	100
ROMS50-200			2	7.5	0.40	30.0	0.50	37.5	0.60	45.0	0.74	100
ROMS50-250			2 1/2	6.0	0.50	30.0	0.63	37.5	0.75	45.0	0.93	50
ROMS50-300			3	5.1	0.60	30.6	0.75	38.3	0.90	45.9	1.11	50
ROMS50-350			3 1/2	4.0	0.70	28.0	0.88	35.0	1.05	42.0	1.30	50
ROMS50-400			4	3.7	0.80	29.0	1.00	37.0	1.20	44.0	1.48	50
ROMS50-1200			12	1.1	2.40	26.4	3.00	33.0	3.60	39.6	4.44	50
ROMS62-100	5/8	11/32	1	30.0	0.20	60.0	0.25	75.0	0.30	90.0	0.37	100
ROMS62-125			1 1/4	21.5	0.25	53.8	0.31	67.2	0.38	80.6	0.46	100
ROMS62-150			1 1/2	19.0	0.30	57.0	0.38	71.3	0.45	85.5	0.56	100
ROMS62-175			1 3/4	16.8	0.35	58.8	0.44	73.5	0.53	88.2	0.65	50
ROMS62-200			2	15.5	0.40	62.0	0.50	77.5	0.60	93.0	0.74	50
ROMS62-250			2 1/2	11.5	0.50	57.5	0.63	71.9	0.75	86.3	0.93	50
ROMS62-300			3	10.0	0.60	60.0	0.75	75.0	0.90	90.0	1.11	50
ROMS62-350			3 1/2	8.5	0.70	59.5	0.88	74.4	1.05	89.3	1.30	50
ROMS62-400			4	7.6	0.80	60.8	1.00	76.0	1.20	91.2	1.48	50
ROMS62-450			4 1/2	6.6	0.90	59.1	1.13	74.0	1.35	89.0	1.67	50
ROMS62-1200	12	2.6	2.40	62.4	3.00	78.0	3.60	93.6	4.44	50		
ROMS75-100	3/4	3/8	1	50.0	0.20	100.0	0.25	125.0	0.30	150.0	0.37	50
ROMS75-125			1 1/4	38.0	0.25	95.0	0.31	118.8	0.38	142.5	0.46	50
ROMS75-150			1 1/2	31.0	0.30	93.0	0.38	117.8	0.45	139.5	0.56	50
ROMS75-175			1 3/4	27.0	0.35	94.5	0.44	118.8	0.53	141.8	0.65	50
ROMS75-200			2	24.0	0.40	96.0	0.50	120.0	0.60	144.0	0.74	50
ROMS75-250			2 1/2	18.8	0.50	94.0	0.63	118.4	0.75	141.0	0.93	50
ROMS75-300			3	14.9	0.60	89.4	0.75	111.8	0.90	134.1	1.11	50
ROMS75-350			3 1/2	12.8	0.70	89.6	0.88	112.0	1.05	134.4	1.30	50
ROMS75-400			4	11.0	0.80	88.0	1.00	110.0	1.20	132.0	1.48	50
ROMS75-450			4 1/2	10.0	0.90	90.0	1.13	113.0	1.35	135.0	1.67	50
ROMS75-500			5	9.0	1.00	90.0	1.25	112.5	1.50	135.0	1.85	50
ROMS75-550			5 1/2	8.0	1.10	88.0	1.38	110.0	1.65	132.0	2.04	50
ROMS75-600	6	7.5	1.20	90.0	1.50	112.5	1.80	135.0	2.22	50		
ROMS75-1200	12	3.5	2.40	84.0	3.00	105.0	3.60	126.0	4.44	50		

*Deflection values near solid intended for design information ONLY.

The color silver-red is a registered trademark of Special Springs Srl.



Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs					
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	20% L ₀	25% L ₀	30% L ₀	37% L ₀						
	inch	inch	inch	± 10% lbs./1 inch	For Optimum Life inch lbs	For Long Life inch lbs	Max. Operating Def. inch lbs	Max. Deflection inch						
ROMS100-100	1	1/2	1	82.7	0.20	165.4	0.25	206.8	0.30	248.1	0.37	50		
ROMS100-125			1 1/4	65.3	0.25	163.3	0.31	202.4	0.38	244.9	0.46	50		
ROMS100-150			1 1/2	53.8	0.30	161.4	0.38	204.4	0.45	242.1	0.56	50		
ROMS100-175			1 3/4	46.1	0.35	161.4	0.44	202.8	0.53	242.0	0.65	50		
ROMS100-200			2	40.0	0.40	160.0	0.50	200.0	0.60	240.0	0.74	50		
ROMS100-250			2 1/2	32.2	0.50	161.0	0.63	202.9	0.75	241.5	0.93	50		
ROMS100-300			3	26.7	0.60	160.2	0.75	200.3	0.90	240.3	1.11	25		
ROMS100-350			3 1/2	22.9	0.70	160.3	0.88	201.5	1.05	240.5	1.30	25		
ROMS100-400			4	20.2	0.80	161.6	1.00	202.0	1.20	242.4	1.48	25		
ROMS100-450			4 1/2	17.8	0.90	160.2	1.13	201.1	1.35	240.3	1.67	25		
ROMS100-500			5	15.7	1.00	157.0	1.25	196.3	1.50	235.5	1.85	25		
ROMS100-550			5 1/2	13.7	1.10	150.7	1.38	189.1	1.65	226.1	2.04	25		
ROMS100-600			6	12.5	1.20	150.0	1.50	187.5	1.80	225.0	2.22	25		
ROMS100-700			7	10.9	1.40	152.6	1.75	190.8	2.10	228.9	2.59	25		
ROMS100-800	8	9.6	1.60	153.6	2.00	192.0	2.40	230.4	2.96	25				
ROMS100-1200	12	6.5	2.40	156.0	3.00	195.0	3.60	234.0	4.44	25				
ROMS125-150	1 1/4	5/8	1 1/2	114.4	0.30	343.2	0.38	429.0	0.45	514.8	0.56	50		
ROMS125-175			1 3/4	100.8	0.35	352.8	0.44	441.0	0.53	529.2	0.65	50		
ROMS125-200			2	83.8	0.40	335.2	0.50	419.0	0.60	502.8	0.74	50		
ROMS125-250			2 1/2	62.4	0.50	312.0	0.63	390.0	0.75	468.0	0.93	25		
ROMS125-300			3	51.2	0.60	307.2	0.75	384.0	0.90	460.8	1.11	25		
ROMS125-350			3 1/2	44.0	0.70	308.0	0.88	385.0	1.05	462.0	1.30	25		
ROMS125-400			4	38.1	0.80	304.8	1.00	381.0	1.20	457.2	1.48	25		
ROMS125-450			4 1/2	32.9	0.90	296.1	1.13	371.8	1.35	444.2	1.67	25		
ROMS125-500			5	30.0	1.00	300.0	1.25	375.0	1.50	450.0	1.85	25		
ROMS125-550			5 1/2	26.4	1.10	290.4	1.38	363.0	1.65	435.6	2.04	25		
ROMS125-600			6	25.0	1.20	300.0	1.50	375.0	1.80	450.0	2.22	25		
ROMS125-700			7	21.0	1.40	294.0	1.75	367.5	2.10	441.0	2.59	25		
ROMS125-800			8	18.4	1.60	294.4	2.00	368.0	2.40	441.6	2.96	25		
ROMS125-1000			10	14.5	2.00	290.0	2.50	362.5	3.00	435.0	3.70	25		
ROMS125-1200	12	12.4	2.40	297.6	3.00	372.0	3.60	446.4	4.44	25				
ROMS150-200	1 1/2	3/4	2	103.0	0.40	412.0	0.50	515.0	0.60	618.0	0.74	25		
ROMS150-250			2 1/2	81.2	0.50	406.0	0.63	511.6	0.75	609.0	0.93	25		
ROMS150-300			3	62.4	0.60	374.4	0.75	468.0	0.90	561.6	1.11	25		
ROMS150-350			3 1/2	54.0	0.70	378.0	0.88	475.2	1.05	567.0	1.30	25		
ROMS150-400			4	46.5	0.80	372.0	1.00	465.0	1.20	558.0	1.48	25		
ROMS150-450			4 1/2	41.0	0.90	369.0	1.13	463.3	1.35	553.5	1.67	25		
ROMS150-500			5	36.8	1.00	368.0	1.25	460.0	1.50	552.0	1.85	25		
ROMS150-550			5 1/2	33.0	1.10	363.0	1.38	455.4	1.65	544.5	2.04	25		
ROMS150-600			6	29.5	1.20	354.0	1.50	442.5	1.80	531.0	2.22	25		
ROMS150-700			7	25.5	1.40	357.0	1.75	446.3	2.10	535.5	2.59	25		
ROMS150-800			8	22.0	1.60	352.0	2.00	440.0	2.40	528.0	2.96	25		
ROMS150-1000			10	17.6	2.00	352.0	2.50	440.0	3.00	528.0	3.70	25		
ROMS150-1200			12	14.4	2.40	345.6	3.00	432.0	3.60	518.4	4.44	25		
ROMS200-250			2	1	2 1/2	118.4	0.50	592.0	0.63	740.0	0.75	888.0	0.93	25
ROMS200-300	3	93.0			0.60	558.0	0.75	697.5	0.90	837.0	1.11	25		
ROMS200-350	3 1/2	78.2			0.70	547.4	0.88	688.2	1.05	821.1	1.30	25		
ROMS200-400	4	66.4			0.80	531.2	1.00	664.0	1.20	796.8	1.48	25		
ROMS200-450	4 1/2	60.0			0.90	540.0	1.13	675.0	1.35	810.0	1.67	25		
ROMS200-500	5	53.4			1.00	534.0	1.25	667.5	1.50	801.0	1.85	25		
ROMS200-550	5 1/2	49.0			1.10	539.0	1.38	676.2	1.65	808.5	2.04	25		
ROMS200-600	6	45.0			1.20	540.0	1.50	675.0	1.80	810.0	2.22	25		
ROMS200-700	7	37.4			1.40	523.6	1.75	654.5	2.10	785.4	2.59	25		
ROMS200-800	8	33.0			1.60	528.0	2.00	660.0	2.40	792.0	2.96	10		
ROMS200-1000	10	26.0			2.00	520.0	2.50	650.0	3.00	780.0	3.70	10		
ROMS200-1200	12	21.5			2.40	516.0	3.00	645.0	3.60	774.0	4.44	10		
ROMS250-300	2 1/2	1 1/2			3	171.4	0.60	1026.0	0.75	1289.0	0.90	1545.0	1.11	15
ROMS250-350					3 1/2	146.2	0.70	1024.0	0.87	1278.0	1.05	1537.0	1.30	15
ROMS250-400			4	128.5	0.80	1027.0	1.00	1285.0	1.20	1543.0	1.48	15		
ROMS250-450			4 1/2	111.9	0.90	1009.0	1.13	1260.0	1.35	1511.0	1.67	15		
ROMS250-500			5	100.5	1.00	1005.0	1.25	1258.0	1.50	1508.0	1.85	5		
ROMS250-550			5 1/2	90.8	1.10	997.0	1.37	1247.0	1.65	1498.0	2.04	5		
ROMS250-600			6	82.2	1.20	987.0	1.50	1233.0	1.80	1479.0	2.22	5		
ROMS250-700			7	68.5	1.40	960.0	1.75	1200.0	2.10	1438.0	2.59	5		
ROMS250-800			8	59.7	1.60	954.0	2.00	1194.0	2.40	1433.0	2.96	5		
ROMS250-900			9	52.5	1.80	945.0	2.25	1183.0	2.70	1419.0	3.33	5		
ROMS250-1000			10	46.8	2.00	937.0	2.50	1171.0	3.00	1405.0	3.70	5		
ROMS250-1200			12	37.7	2.40	905.0	3.00	1131.0	3.60	1356.0	4.44	5		

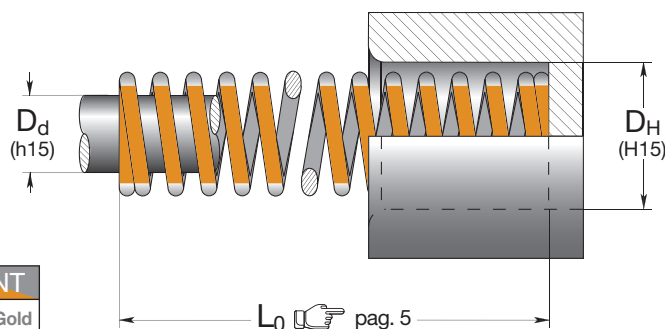
The color silver-red is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

Load (lbs) = R (lbs./1 inch) x 10 x Deflection (inch) 1 lb = 4.448 N

EN Heavy duty die springs
Silver-gold color

ES Muelles carga fuerte
Color plateado-oro



RoHS

°C
250
120
-30

°F
482
248
-22

CAD

COAT

PAINT

Silver Gold

Part number	D _H Hole Diameter	D _d Hole Diameter	L ₀ Free Length	R Spring Rate ± 10%	A 15% L ₀ For Optimum Life		B 20% L ₀ For Long Life		C 25% L ₀ Max. Operating Def.		D* 30% L ₀ Max. Deflection		BOX Pcs
					inch	lbs	inch	lbs	inch	lbs	inch	lbs	
ROHS37-100	3/8	3/16	1	11.6	0.15	17.4	0.20	23.2	0.25	29.0	0.30	200	
ROHS37-125			1 1/4	9.8	0.19	18.6	0.25	24.5	0.31	30.4	0.38	200	
ROHS37-150			1 1/2	8.0	0.23	18.4	0.30	24.0	0.38	30.4	0.45	100	
ROHS37-175			1 3/4	7.5	0.26	19.5	0.35	26.3	0.44	33.0	0.53	100	
ROHS37-200			2	6.2	0.30	18.6	0.40	24.8	0.50	31.0	0.60	100	
ROHS37-250			2 1/2	5.0	0.38	19.0	0.50	25.0	0.63	31.5	0.75	100	
ROHS37-300			3	4.1	0.45	18.5	0.60	24.6	0.75	30.8	0.90	100	
ROHS37-1200			12	1.1	1.80	19.8	2.40	26.4	3.00	33.0	3.60	50	
ROHS50-100	1/2	9/32	1	22.5	0.15	33.8	0.20	45.0	0.25	56.3	0.30	100	
ROHS50-125			1 1/4	18.2	0.19	34.6	0.25	45.5	0.31	56.4	0.38	100	
ROHS50-150			1 1/2	14.8	0.23	34.0	0.30	44.4	0.38	56.2	0.45	100	
ROHS50-175			1 3/4	12.6	0.26	32.8	0.35	44.1	0.44	55.4	0.53	100	
ROHS50-200			2	11.0	0.30	33.0	0.40	44.0	0.50	55.0	0.60	100	
ROHS50-250			2 1/2	8.6	0.38	32.7	0.50	43.0	0.63	54.2	0.75	50	
ROHS50-300			3	7.4	0.45	33.3	0.60	44.4	0.75	55.5	0.90	50	
ROHS50-350			3 1/2	6.0	0.53	31.8	0.70	42.0	0.88	52.8	1.05	50	
ROHS50-400			4	5.3	0.60	32.0	0.80	42.0	1.00	53.0	1.20	50	
ROHS50-1200			12	1.7	1.80	30.6	2.40	40.8	3.00	51.0	3.60	50	
ROHS62-100	5/8	11/32	1	42.4	0.15	63.6	0.20	84.8	0.25	106.0	0.30	100	
ROHS62-125			1 1/4	32.5	0.19	61.8	0.25	81.3	0.31	100.8	0.38	100	
ROHS62-150			1 1/2	28.0	0.23	64.4	0.30	84.0	0.38	106.4	0.45	100	
ROHS62-175			1 3/4	24.0	0.26	62.4	0.35	84.0	0.44	105.6	0.53	50	
ROHS62-200			2	20.8	0.30	62.4	0.40	83.2	0.50	104.0	0.60	50	
ROHS62-250			2 1/2	17.0	0.38	64.6	0.50	85.0	0.63	107.1	0.75	50	
ROHS62-300			3	14.0	0.45	63.0	0.60	84.0	0.75	105.0	0.90	50	
ROHS62-350			3 1/2	12.2	0.53	64.7	0.70	85.4	0.88	107.4	1.05	50	
ROHS62-400			4	10.8	0.60	64.8	0.80	86.4	1.00	108.0	1.20	50	
ROHS62-450			4 1/2	9.5	0.68	65.0	0.90	86.0	1.13	108.0	1.35	50	
ROHS62-1200			12	3.0	1.80	54.0	2.40	72.0	3.00	90.0	3.60	50	
ROHS75-100			3/4	3/8	1	108.0	0.15	162.0	0.20	216.0	0.25	270.0	0.27
ROHS75-125	1 1/4	88.0			0.19	167.2	0.25	220.0	0.31	272.8	0.35	50	
ROHS75-150	1 1/2	69.0			0.23	158.7	0.30	207.0	0.38	262.2	0.45	50	
ROHS75-175	1 3/4	60.0			0.26	156.0	0.35	210.0	0.44	264.0	0.53	50	
ROHS75-200	2	51.5			0.30	154.5	0.40	206.0	0.50	257.5	0.60	50	
ROHS75-250	2 1/2	40.0			0.38	152.0	0.50	200.0	0.63	252.0	0.75	50	
ROHS75-300	3	33.0			0.45	148.5	0.60	198.0	0.75	247.5	0.90	50	
ROHS75-350	3 1/2	29.0			0.53	153.7	0.70	203.0	0.88	255.2	1.05	50	
ROHS75-400	4	25.0			0.60	150.0	0.80	200.0	1.00	250.0	1.20	50	
ROHS75-450	4 1/2	22.0			0.68	149.6	0.90	198.0	1.13	248.6	1.35	50	
ROHS75-500	5	19.5			0.75	146.3	1.00	195.0	1.25	243.8	1.50	50	
ROHS75-550	5 1/2	17.8			0.83	147.7	1.10	195.8	1.38	245.6	1.65	50	
ROHS75-600	6	16.0	0.90	144.0	1.20	192.0	1.50	240.0	1.80	50			
ROHS75-1200	12	8.0	1.80	144.0	2.40	192.0	3.00	240.0	3.60	50			

*Deflection values near solid intended for design information ONLY.

The color silver-gold is a registered trademark of Special Springs Srl.

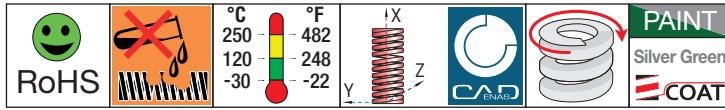
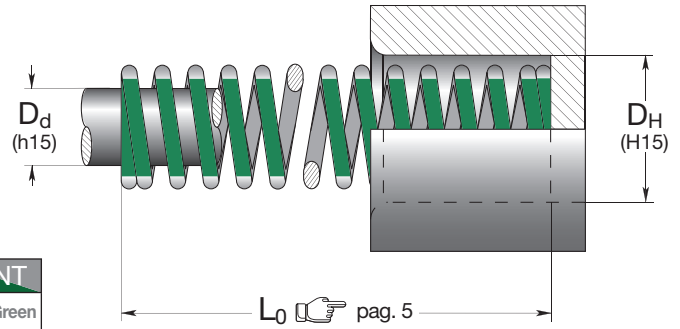
Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs			
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	15% L ₀	20% L ₀	25% L ₀	30% L ₀				
	inch	inch	inch	± 10% lbs./1 inch	For Optimum Life inch	For Long Life lbs	Max. Operating Def. inch	Max. Deflection inch				
ROHS100-100	1	1/2	1	193.2	0.15	289.8	0.20	386.4	0.25	483.0	0.27	50
ROHS100-125			1 1/4	146.5	0.19	278.4	0.25	366.3	0.31	454.2	0.38	50
ROHS100-150			1 1/2	120.0	0.23	276.0	0.30	360.0	0.38	456.0	0.45	50
ROHS100-175			1 3/4	104.0	0.26	270.4	0.35	364.0	0.44	457.6	0.53	50
ROHS100-200			2	87.2	0.30	261.6	0.40	348.8	0.50	436.0	0.60	50
ROHS100-250			2 1/2	66.5	0.38	252.7	0.50	332.5	0.63	419.0	0.75	50
ROHS100-300			3	54.4	0.45	244.8	0.60	326.4	0.75	408.0	0.90	25
ROHS100-350			3 1/2	45.6	0.53	241.7	0.70	319.2	0.88	401.3	1.05	25
ROHS100-400			4	40.0	0.60	240.0	0.80	320.0	1.00	400.0	1.20	25
ROHS100-450			4 1/2	35.2	0.68	239.4	0.90	316.8	1.13	397.8	1.35	25
ROHS100-500			5	31.2	0.75	234.0	1.00	312.0	1.25	390.0	1.50	25
ROHS100-550			5 1/2	28.8	0.83	239.0	1.10	316.8	1.38	397.4	1.65	25
ROHS100-600			6	25.6	0.90	230.4	1.20	307.2	1.50	384.0	1.80	25
ROHS100-700			7	22.4	1.05	235.2	1.40	313.6	1.75	392.0	2.10	25
ROHS100-800	8	19.2	1.20	230.4	1.60	307.2	2.00	384.0	2.40	25		
ROHS100-1200	12	12.8	1.80	230.4	2.40	307.2	3.00	384.0	3.60	25		
ROHS125-150	1 1/4	5/8	1 1/2	220.0	0.23	506.0	0.30	660.0	0.38	836.0	0.45	50
ROHS125-175			1 3/4	181.6	0.26	472.2	0.35	635.6	0.44	799.0	0.53	50
ROHS125-200			2	149.6	0.30	448.8	0.40	598.4	0.50	748.0	0.57	50
ROHS125-250			2 1/2	117.6	0.38	446.9	0.50	588.0	0.63	740.9	0.75	25
ROHS125-300			3	95.2	0.45	428.4	0.60	571.2	0.75	714.0	0.90	25
ROHS125-350			3 1/2	78.0	0.53	413.4	0.70	546.0	0.88	686.4	1.05	25
ROHS125-400			4	66.4	0.60	398.4	0.80	531.2	1.00	664.0	1.20	25
ROHS125-450			4 1/2	58.4	0.68	397.1	0.90	525.6	1.13	659.9	1.35	25
ROHS125-500			5	53.0	0.75	397.5	1.00	530.0	1.25	662.5	1.50	25
ROHS125-550			5 1/2	47.2	0.83	391.8	1.10	519.2	1.38	651.4	1.65	25
ROHS125-600			6	45.0	0.90	405.0	1.20	540.0	1.50	675.0	1.80	25
ROHS125-700			7	36.8	1.05	386.4	1.40	515.2	1.75	644.0	2.10	25
ROHS125-800			8	32.8	1.20	393.6	1.60	524.8	2.00	656.0	2.40	25
ROHS125-1000			10	25.6	1.50	384.0	2.00	512.0	2.50	640.0	3.00	25
ROHS125-1200	12	22.0	1.80	396.0	2.40	528.0	3.00	660.0	3.60	25		
ROHS150-200	1 1/2	3/4	2	198.0	0.30	594.0	0.40	792.0	0.50	990.0	0.60	25
ROHS150-250			2 1/2	155.0	0.38	589.0	0.50	775.0	0.63	976.5	0.75	25
ROHS150-300			3	130.0	0.45	585.0	0.60	780.0	0.75	975.0	0.90	25
ROHS150-350			3 1/2	106.4	0.53	563.9	0.70	744.8	0.88	936.3	1.05	25
ROHS150-400			4	91.2	0.60	547.2	0.80	729.6	1.00	912.0	1.20	25
ROHS150-450			4 1/2	81.6	0.68	554.9	0.90	734.4	1.13	922.1	1.35	25
ROHS150-500			5	73.0	0.75	547.5	1.00	730.0	1.25	912.5	1.50	25
ROHS150-550			5 1/2	67.0	0.83	556.1	1.10	737.0	1.38	924.6	1.65	25
ROHS150-600			6	58.4	0.90	525.6	1.20	700.8	1.50	876.0	1.80	25
ROHS150-700			7	49.6	1.05	520.8	1.40	694.4	1.75	868.0	2.10	25
ROHS150-800			8	43.2	1.20	518.4	1.60	691.2	2.00	864.0	2.40	25
ROHS150-1000			10	36.2	1.50	543.0	2.00	724.0	2.50	905.0	3.00	25
ROHS150-1200			12	30.0	1.80	540.0	2.40	720.0	3.00	900.0	3.60	25
ROHS200-250			2	1	2 1/2	251.2	0.38	954.6	0.50	1256.0	0.63	1582.6
ROHS200-300	3	206.0			0.45	927.0	0.60	1236.0	0.75	1545.0	0.90	25
ROHS200-350	3 1/2	170.0			0.53	901.0	0.70	1190.0	0.88	1496.0	1.05	25
ROHS200-400	4	150.0			0.60	900.0	0.80	1200.0	1.00	1500.0	1.20	25
ROHS200-450	4 1/2	127.2			0.68	865.0	0.90	1144.8	1.13	1437.4	1.35	25
ROHS200-500	5	118.6			0.75	889.5	1.00	1186.0	1.25	1482.5	1.50	25
ROHS200-550	5 1/2	107.7			0.83	893.9	1.10	1184.7	1.38	1486.3	1.65	25
ROHS200-600	6	97.7			0.90	879.3	1.20	1172.4	1.50	1465.5	1.80	25
ROHS200-700	7	82.0			1.05	861.0	1.40	1148.0	1.75	1435.0	2.10	25
ROHS200-800	8	73.0			1.20	876.0	1.60	1168.0	2.00	1460.0	2.40	10
ROHS200-1000	10	57.2			1.50	858.0	2.00	1144.0	2.50	1430.0	3.00	10
ROHS200-1200	12	47.7			1.80	858.6	2.40	1144.8	3.00	1431.0	3.60	10

The color silver-gold is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

EN Extra heavy duty die springs
Silver-green color

ES Muelles carga extra-fuerte
Color platerado-verde



Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Rate ± 10%	A 15% L ₀ For Optimum Life		B 17% L ₀ For Long Life		C 20% L ₀ Max. Operating Def.		D* 25% L ₀ Max. Deflection		BOX Pcs
					inch	lbs	inch	lbs	inch	lbs	inch	lbs	
ROES37-100	3/8	3/16	1	21.0	0.15	31.5	0.17	35.7	0.20	42.0	0.25	200	
ROES37-125			1 1/4	14.6	0.19	27.7	0.21	30.7	0.25	36.5	0.31	200	
ROES37-150			1 1/2	12.5	0.23	28.8	0.26	32.5	0.30	37.5	0.38	100	
ROES37-175			1 3/4	10.5	0.26	27.3	0.30	31.5	0.35	36.8	0.44	100	
ROES37-200			2	9.0	0.30	27.0	0.34	30.6	0.40	36.0	0.50	100	
ROES37-250			2 1/2	7.5	0.38	28.5	0.43	32.3	0.50	37.5	0.63	100	
ROES37-300			3	6.3	0.45	28.4	0.51	32.1	0.60	37.8	0.75	100	
ROES37-1200			12	1.5	1.80	27.0	2.04	30.6	2.40	36.0	3.00	50	
ROES50-100	1/2	9/32	1	31.0	0.15	46.5	0.17	52.7	0.20	62.0	0.25	100	
ROES50-125			1 1/4	24.0	0.19	45.6	0.21	50.4	0.25	60.0	0.31	100	
ROES50-150			1 1/2	19.2	0.23	44.2	0.26	49.9	0.30	57.6	0.38	100	
ROES50-175			1 3/4	17.0	0.26	44.2	0.30	51.0	0.35	59.5	0.44	100	
ROES50-200			2	14.0	0.30	42.0	0.34	47.6	0.40	56.0	0.50	100	
ROES50-250			2 1/2	11.5	0.38	43.7	0.43	49.5	0.50	57.5	0.63	50	
ROES50-300			3	9.4	0.45	42.3	0.51	47.9	0.60	56.4	0.75	50	
ROES50-350			3 1/2	8.0	0.53	42.4	0.60	48.0	0.70	56.0	0.88	50	
ROES50-400			4	7.1	0.60	43.0	0.68	49.0	0.80	57.0	1.00	50	
ROES50-1200			12	2.4	1.80	43.2	2.04	49.0	2.40	57.6	3.00	50	
ROES62-100	5/8	11/32	1	63.0	0.15	94.5	0.17	107.1	0.20	126.0	0.25	100	
ROES62-125			1 1/4	43.8	0.19	83.2	0.21	92.0	0.25	109.5	0.31	100	
ROES62-150			1 1/2	37.0	0.23	85.1	0.26	96.2	0.30	111.0	0.38	100	
ROES62-175			1 3/4	31.0	0.26	80.6	0.30	93.0	0.35	108.5	0.44	50	
ROES62-200			2	28.0	0.30	84.0	0.34	95.2	0.40	112.0	0.50	50	
ROES62-250			2 1/2	22.0	0.38	83.6	0.43	94.6	0.50	110.0	0.63	50	
ROES62-300			3	19.0	0.45	85.5	0.51	96.9	0.60	114.0	0.75	50	
ROES62-350			3 1/2	15.4	0.53	81.6	0.60	92.4	0.70	107.8	0.88	50	
ROES62-400			4	13.5	0.60	81.0	0.68	91.8	0.80	108.0	1.00	50	
ROES62-450			4 1/2	12.0	0.68	82.0	0.77	93.0	0.90	109.0	1.13	50	
ROES62-1200	12	4.5	1.80	81.0	2.04	91.8	2.40	108.0	3.00	50			
ROES75-100	3/4	3/8	1	140.0	0.15	210.0	0.17	238.0	0.20	280.0	0.25	50	
ROES75-125			1 1/4	110.0	0.19	209.0	0.21	231.0	0.25	275.0	0.31	50	
ROES75-150			1 1/2	89.0	0.23	204.7	0.26	231.4	0.30	267.0	0.38	50	
ROES75-175			1 3/4	75.0	0.26	195.0	0.30	225.0	0.35	262.5	0.44	50	
ROES75-200			2	66.0	0.30	198.0	0.34	224.4	0.40	264.0	0.50	50	
ROES75-250			2 1/2	50.0	0.38	190.0	0.43	215.0	0.50	250.0	0.63	50	
ROES75-300			3	40.5	0.45	182.3	0.51	206.6	0.60	243.0	0.75	50	
ROES75-350			3 1/2	34.5	0.53	182.9	0.60	207.0	0.70	241.5	0.88	50	
ROES75-400			4	30.0	0.60	180.0	0.68	204.0	0.80	240.0	1.00	50	
ROES75-450			4 1/2	26.5	0.68	180.2	0.77	204.1	0.90	238.5	1.13	50	
ROES75-500			5	23.5	0.75	176.3	0.85	199.8	1.00	235.0	1.25	50	
ROES75-550			5 1/2	21.5	0.83	178.5	0.94	202.1	1.10	236.5	1.38	50	
ROES75-600	6	19.5	0.90	175.5	1.02	198.9	1.20	234.0	1.50	50			
ROES75-1200	12	9.5	1.80	171.0	2.04	193.8	2.40	228.0	3.00	50			

*Deflection values near solid intended for design information ONLY.

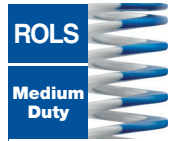
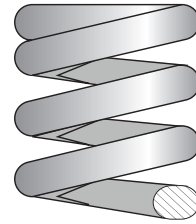
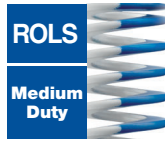
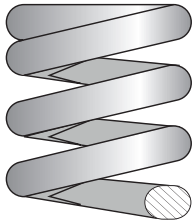
The color silver-green is a registered trademark of Special Springs Srl.

Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs			
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	15% L ₀	17% L ₀	20% L ₀	25% L ₀				
	inch	inch	inch	± 10% lbs./1 inch	For Optimum Life inch lbs	For Long Life inch lbs	Max. Operating Def. inch lbs	Max. Deflection inch				
ROES100-100	1	1/2	1	243.7	0.15	365.0	0.17	413.0	0.20	489.0	0.25	50
ROES100-125			1 1/4	187.6	0.19	355.0	0.21	392.0	0.25	473.0	0.31	50
ROES100-150			1 1/2	160.0	0.23	368.0	0.26	416.0	0.30	480.0	0.38	50
ROES100-175			1 3/4	133.9	0.26	348.0	0.30	401.0	0.35	469.0	0.44	50
ROES100-200			2	116.0	0.30	348.0	0.34	394.4	0.40	464.0	0.50	50
ROES100-250			2 1/2	89.6	0.38	340.5	0.43	385.3	0.50	448.0	0.63	50
ROES100-300			3	73.6	0.45	331.2	0.51	375.4	0.60	441.6	0.75	25
ROES100-350			3 1/2	62.4	0.53	330.7	0.60	374.4	0.70	436.8	0.88	25
ROES100-400			4	55.2	0.60	331.2	0.68	375.4	0.80	441.6	1.00	25
ROES100-450			4 1/2	48.8	0.68	331.8	0.77	375.8	0.90	439.2	1.13	25
ROES100-500			5	43.2	0.75	324.0	0.85	367.2	1.00	432.0	1.25	25
ROES100-550			5 1/2	39.3	0.83	327.0	0.94	370.0	1.10	432.0	1.37	25
ROES100-600			6	36.0	0.90	324.0	1.02	367.2	1.20	432.0	1.50	25
ROES100-700			7	30.5	1.05	321.0	1.19	363.0	1.40	427.0	1.75	25
ROES100-800	8	26.6	1.20	319.0	1.36	361.0	1.60	424.0	2.00	25		
ROES100-1200	12	17.6	1.80	316.8	2.04	359.0	2.40	422.4	3.00	25		
ROES125-150	1 1/4	5/8	1 1/2	269.0	0.23	614.0	0.26	699.0	0.30	805.0	0.37	50
ROES125-175			1 3/4	237.0	0.26	616.0	0.30	709.0	0.35	830.0	0.44	25
ROES125-200			2	205.0	0.30	615.0	0.34	697.0	0.40	820.0	0.50	50
ROES125-250			2 1/2	152.5	0.38	579.5	0.43	655.8	0.50	762.5	0.63	25
ROES125-300			3	122.0	0.45	549.0	0.51	622.2	0.60	732.0	0.75	25
ROES125-350			3 1/2	108.5	0.53	575.1	0.60	651.0	0.70	759.5	0.88	25
ROES125-400			4	89.0	0.60	534.0	0.68	605.2	0.80	712.0	1.00	25
ROES125-450			4 1/2	83.5	0.68	567.8	0.77	643.0	0.90	751.5	1.13	25
ROES125-500			5	70.0	0.75	525.0	0.85	595.0	1.00	700.0	1.25	25
ROES125-550			5 1/2	62.8	0.83	522.0	0.94	591.0	1.10	690.0	1.37	25
ROES125-600			6	57.5	0.90	517.5	1.02	586.5	1.20	690.0	1.50	25
ROES125-700			7	51.4	1.05	540.0	1.19	611.0	1.40	720.0	1.75	25
ROES125-800			8	46.0	1.20	552.0	1.36	625.6	1.60	736.0	2.00	25
ROES125-1000			10	34.5	1.50	517.5	1.70	586.5	2.00	690.0	2.50	25
ROES125-1200	12	27.0	1.80	486.0	2.04	550.8	2.40	648.0	3.00	25		
ROES150-200	1 1/2	3/4	2	408.5	0.30	1225.5	0.34	1388.9	0.40	1634.0	0.45	25
ROES150-250			2 1/2	328.5	0.38	1248.3	0.43	1412.6	0.50	1642.5	0.63	25
ROES150-300			3	255.0	0.45	1147.5	0.51	1300.5	0.60	1530.0	0.75	25
ROES150-350			3 1/2	213.5	0.53	1131.6	0.60	1281.0	0.70	1494.5	0.88	25
ROES150-400			4	184.5	0.60	1107.0	0.68	1254.6	0.80	1476.0	1.00	25
ROES150-450			4 1/2	162.5	0.68	1105.0	0.77	1251.3	0.90	1462.5	1.13	25
ROES150-500			5	145.0	0.75	1087.5	0.85	1232.5	1.00	1450.0	1.25	25
ROES150-550			5 1/2	130.8	0.83	1086.0	0.94	1230.0	1.10	1436.0	1.37	25
ROES150-600			6	120.5	0.90	1084.5	1.02	1229.1	1.20	1446.0	1.50	25
ROES150-700			7	102.8	1.05	1080.0	1.19	1222.0	1.40	1441.0	1.75	25
ROES150-800			8	90.5	1.20	1086.0	1.36	1230.8	1.60	1448.0	2.00	25
ROES150-1000			10	71.0	1.50	1065.0	1.70	1207.0	2.00	1420.0	2.50	25
ROES150-1200			12	55.0	1.80	990.0	2.04	1122.0	2.40	1320.0	3.00	25
ROES200-250			2	1	2 1/2	411.0	0.38	1561.8	0.43	1767.3	0.50	2055.0
ROES200-300	3	319.0			0.45	1435.5	0.51	1626.9	0.60	1914.0	0.70	25
ROES200-350	3 1/2	276.4			0.53	1464.9	0.60	1658.4	0.70	1934.8	0.88	25
ROES200-400	4	231.1			0.60	1386.6	0.68	1571.5	0.80	1848.8	0.97	25
ROES200-450	4 1/2	188.8			0.68	1283.8	0.77	1453.8	0.90	1699.2	1.13	25
ROES200-500	5	180.4			0.75	1353.0	0.85	1533.4	1.00	1804.0	1.25	25
ROES200-550	5 1/2	159.9			0.83	1328.0	0.94	1504.0	1.10	1756.0	1.37	25
ROES200-600	6	147.3			0.90	1325.7	1.02	1502.5	1.20	1767.6	1.50	25
ROES200-700	7	125.6			1.05	1321.0	1.19	1494.0	1.40	1761.0	1.75	25
ROES200-800	8	111.6			1.20	1339.2	1.36	1517.8	1.60	1785.6	2.00	10
ROES200-1000	10	88.4			1.50	1326.0	1.70	1502.8	2.00	1768.0	2.50	10
ROES200-1200	12	71.2			1.80	1281.6	2.04	1452.5	2.40	1708.8	3.00	10

The color silver-green is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

RANGE OVERVIEW



DH	Dd	L0		
mm	mm	mm		
9.53	4.76	25.40		
		31.75		
		38.10		
		44.45		
		50.80		
		63.50		
		76.20		
		304.80		
12.70	7.14	25.40		
		31.75		
		38.10		
		44.45		
		50.80		
		63.50		
		76.20		
		88.90		
		101.60		
		114.30		
		139.70		
		165.10		
		190.50		
		304.80		
15.88	8.70	25.40		
		31.75		
		38.10		
		44.45		
		50.80		
		63.50		
		76.20		
		88.90		
		101.60		
		114.30		
		304.80		
		19.05	9.50	25.40
31.75				
38.10				
44.45				
50.80				
63.50				
76.20				
88.90				
101.60				
114.30				
127.00				
139.70				
152.40				
165.10				
190.50				
304.80				
25.40	12.70			25.40
				31.75
		38.10		
		44.45		
		50.80		
		63.50		
		76.20		
		88.90		
		101.60		
		114.30		

US series	Max. Defl. 50% L ₀	R ± 10%	N/mm
10.5			
8.8			
7.4			
6.5			
5.4			
4.6			
3.7			
1.1			
19.3			
14.4			
11.9			
10.5			
9.6			
7.9			
6.1			
5.3			
4.5			
4.0			
3.5			
2.5			
2.1			
1.2			
28.7			
21.7			
18.9			
16.8			
15.1			
11.4			
10.2			
8.8			
7.7			
6.7			
2.6			
56.0			
44.8			
35.0			
30.8			
26.3			
21.0			
17.7			
14.5			
13.1			
11.2			
10.5			
9.6			
8.8			
8.2			
6.7			
4.2			
96.3			
78.8			
65.3			
56.0			
46.9			
36.6			
29.9			
25.4			
21.9			
19.3			

US series	Max. Defl. 37% L ₀	R ± 10%	N/mm
14.7			
12.8			
11.7			
10.2			
8.8			
6.5			
5.3			
1.4			
27.1			
21.4			
17.2			
14.9			
13.1			
10.5			
8.9			
7.0			
6.4			
-			
-			
-			
-			
-			
1.9			
52.5			
37.7			
33.3			
29.4			
27.1			
20.1			
17.5			
14.9			
13.3			
11.5			
4.6			
87.6			
66.5			
54.3			
47.3			
42.0			
32.9			
26.1			
22.4			
19.3			
17.5			
15.8			
14.0			
13.1			
-			
-			
6.1			
144.8			
114.3			
94.2			
80.7			
70.0			
56.4			
46.8			
40.1			
35.4			
31.2			

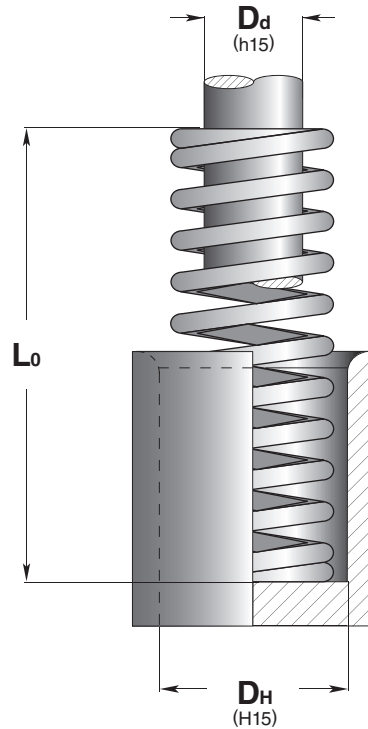
US series	Max. Defl. 30% L ₀	R ± 10%	N/mm
20.3			
17.2			
14.0			
13.1			
10.9			
8.8			
7.2			
1.9			
39.4			
31.9			
25.9			
22.1			
19.3			
15.1			
13.0			
10.5			
9.3			
-			
-			
-			
-			
3.0			
74.2			
56.9			
49.0			
42.0			
36.4			
29.8			
24.5			
21.4			
18.9			
16.7			
5.3			
189.1			
154.1			
120.8			
105.1			
90.2			
70.0			
57.8			
50.8			
43.8			
38.5			
34.1			
31.2			
28.0			
-			
-			
14.0			
338.3			
256.5			
210.1			
182.1			
152.7			
116.4			
95.3			
79.8			
70.0			
61.6			

US series	Max. Defl. 25% L ₀	R ± 10%	N/mm
36.8			
25.6			
21.9			
18.4			
15.8			
13.1			
11.0			
2.6			
54.3			
42.0			
33.6			
29.8			
24.5			
20.1			
16.5			
14.0			
12.5			
-			
-			
-			
4.2			
110.3			
76.7			
64.8			
54.3			
49.0			
38.5			
33.3			
27.0			
23.6			
21.1			
7.9			
245.1			
192.6			
155.8			
131.3			
115.6			
87.6			
70.9			
60.4			
52.5			
46.4			
41.1			
37.6			
34.1			
-			
-			
16.6			
426.8			
328.6			
280.2			
234.5			
203.1			
156.9			
128.9			
109.3			
96.7			
85.4			

DH	Dd	L0
mm	mm	mm
25.40	12.70	127.00
		139.70
		152.40
		177.80
		203.20
		304.80
31.75	15.88	38.10
		44.45
		50.80
		63.50
		76.20
		88.90
		101.60
		114.30
		127.00
		139.70
152.40		
177.80		
203.20		
254.00		
304.80		
38.10	19.05	50.80
		63.50
		76.20
		88.90
		101.60
		114.30
		127.00
		139.70
		152.40
		177.80
203.20		
254.00		
304.80		
50.80	25.40	63.50
		76.20
		88.90
		101.60
		114.30
		127.00
		139.70
		152.40
		177.80
		203.20
254.00		
304.80		
63.50	38.10	76.20
		88.90
		101.60
		114.30
		127.00
		139.70
		152.40
		177.80
		203.20
		228.60
254.00		
304.80		

US series	Max. Defl. 50% L ₀	R ± 10%	N/mm
16.8			
15.4			
14.0			
12.6			
10.5			
7.0			
86.9			
71.1			
65.8			
50.4			
42.0			
35.0			
30.8			
28.0			
25.0			
22.4			
21.0			
18.2			
15.4			
12.6			
10.5			
92.8			
74.8			
63.0			
52.5			
43.6			
40.3			
36.8			
32.4			
29.8			
26.8			
23.1			
18.6			
14.9			
175.1			
145.3			
118.5			
105.1			
92.8			
82.3			
70.9			
68.3			
54.6			
49.9			
37.8			
32.4			
189.3			
156.9			
133.4			
116.7			
104.0			
93.1			
84.3			
72.6			
62.8			
-			
47.1			
41.0			

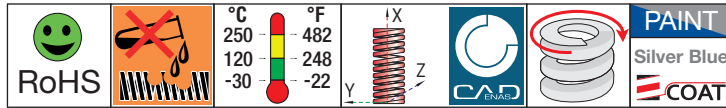
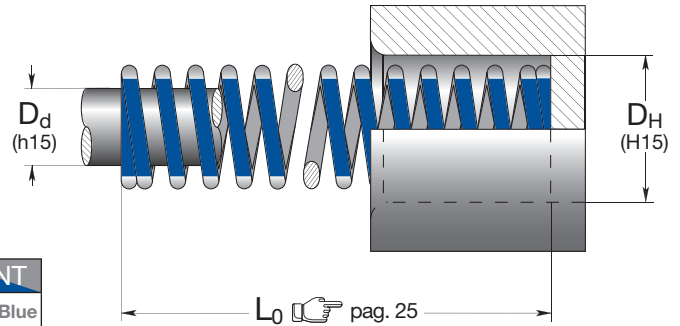
ROMS	ROHS	ROES
Medium Heavy Duty	Heavy Duty	Extra Heavy Duty
US series	US series	US series
Max. Defl. 37% L ₀	Max. Defl. 30% L ₀	Max. Defl. 25% L ₀
R ± 10%	R ± 10%	R ± 10%
N/mm	N/mm	N/mm
27.5	54.6	75.6
24.0	50.4	68.9
21.9	44.8	63.0
19.1	39.2	53.4
16.8	33.6	46.5
11.4	22.4	30.8
200.3	385.2	471.1
176.5	318.0	415.0
146.7	261.9	359.0
109.3	205.9	267.0
89.7	166.7	213.6
77.1	136.6	190.0
66.7	116.3	155.8
57.6	102.3	146.2
52.5	92.8	122.6
46.2	82.6	110.0
43.8	78.8	100.7
36.8	64.4	90.0
32.2	57.4	80.5
25.4	44.8	60.4
21.7	38.5	47.3
180.4	346.7	715.3
142.2	271.4	575.2
109.3	227.6	446.5
94.6	186.3	373.8
81.4	159.7	323.1
71.8	142.9	284.5
64.4	127.8	253.9
57.8	117.3	229.0
51.7	102.3	211.0
44.7	86.8	180.0
38.5	75.6	158.5
30.8	63.4	124.3
25.2	52.5	96.3
207.3	439.9	719.7
162.8	360.7	558.6
136.9	297.7	484.0
116.3	262.7	404.7
105.1	222.7	330.6
93.5	207.7	315.9
85.8	188.6	280.0
78.8	171.1	257.9
65.5	143.6	220.0
57.8	127.8	195.4
45.5	100.2	154.8
37.6	83.5	124.7
300.1	-	-
256.0	-	-
225.0	-	-
196.0	-	-
176.0	-	-
159.0	-	-
144.0	-	-
120.0	-	-
104.5	-	-
92.0	-	-
82.0	-	-
66.0	-	-



D_H	Hole diameter Diámetro del agujero de alojamiento	
D_d	Rod diameter Diámetro de la clavija de guía	
L₀	Spring free length Longitud libre del muelle	Tolerance Tolerancia
	mm	mm
	From 25 to 51	+ 2.4 - 0
	From 64 to 115	+ 3.2 - 0
	From 127 to 178	+ 4.8 - 0
	From 203 to 229	+ 6.4 - 0
R	From 254 to 305	+ 9.5 - 0
	Spring rate (N/mm) - load required to deflect by 1mm deflection Carga (N/mm) necesaria para desviar el muelle de 1mm	
Max. Defl.	Deflection values near solid are intended for design information ONLY Los valores de deflexión por muelle a bloque están destinados SOLAMENTE a información de diseño	

EN Medium duty die springs
Silver-blue color

ES Muelles carga mediana
Color plateado-azul



Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Rate	A 25% L ₀		B 35% L ₀		C 40% L ₀		D* 50% L ₀		BOX Pcs
					± 10%	For Optimum Life	For Long Life	Max. Operating Def.	Max. Deflection				
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	
ROLS37-100	9.53	4.76	25.40	10.5	6.4	67	8.9	93	10.2	107	12.7	128	200
ROLS37-125			31.75	8.8	7.9	69	11.1	97	12.7	111	15.9	128	200
ROLS37-150			38.10	7.4	9.5	70	13.3	98	15.2	112	19.1	128	100
ROLS37-175			44.45	6.5	11.1	72	15.6	101	17.8	115	22.2	128	100
ROLS37-200			50.80	5.4	12.7	69	17.8	97	20.3	110	25.4	128	100
ROLS37-250			63.50	4.6	15.9	73	22.2	101	25.4	116	31.8	128	100
ROLS37-300			76.20	3.7	19.1	70	26.7	98	30.5	112	38.1	128	100
ROLS37-1200	304.80	1.1	76.2	80	106.7	112	121.9	128	152.4	128	50		
ROLS50-100	12.70	7.14	25.40	19.3	6.4	122	8.9	171	10.2	196	12.7	200	100
ROLS50-125			31.75	14.4	7.9	114	11.1	160	12.7	182	15.9	200	100
ROLS50-150			38.10	11.9	9.5	113	13.3	159	15.2	181	19.1	200	100
ROLS50-175			44.45	10.5	11.1	117	15.6	163	17.8	187	22.2	200	100
ROLS50-200			50.80	9.6	12.7	122	17.8	171	20.3	196	25.4	200	100
ROLS50-250			63.50	7.9	15.9	125	22.2	175	25.4	200	31.8	200	50
ROLS50-300			76.20	6.1	19.1	117	26.7	163	30.5	187	38.1	200	50
ROLS50-350			88.90	5.3	22.2	117	31.1	163	35.6	187	44.5	200	50
ROLS50-400			101.60	4.5	25.4	114	35.6	160	40.6	183	50.8	200	50
ROLS50-450			114.30	4.0	28.6	115	40.0	161	45.7	184	57.2	200	50
ROLS50-550			139.70	3.5	34.9	122	48.9	171	55.9	196	69.9	200	50
ROLS50-650			165.10	2.5	41.3	101	57.8	142	66.0	162	82.6	200	50
ROLS50-750			190.50	2.1	47.6	100	66.7	140	76.2	160	95.3	200	50
ROLS50-1200			304.80	1.2	76.2	93	106.7	131	121.9	149	152.4	200	50
ROLS62-100	15.88	8.73	25.40	28.7	6.4	182	8.9	255	10.2	292	12.7	300	100
ROLS62-125			31.75	21.7	7.9	173	11.1	242	12.7	276	15.9	300	100
ROLS62-150			38.10	18.9	9.5	180	13.3	252	15.2	288	19.1	300	100
ROLS62-175			44.45	16.8	11.1	187	15.6	262	17.8	299	22.2	300	50
ROLS62-200			50.80	15.1	12.7	191	17.8	268	20.3	306	25.4	300	50
ROLS62-250			63.50	11.4	15.9	181	22.2	253	25.4	289	31.8	300	50
ROLS62-300			76.20	10.2	19.1	193	26.7	271	30.5	310	38.1	300	50
ROLS62-350			88.90	8.8	22.2	195	31.1	273	35.6	311	44.5	300	50
ROLS62-400			101.60	7.7	25.4	196	35.6	274	40.6	313	50.8	300	50
ROLS62-450			114.30	6.7	28.6	192	40.0	268	45.7	306	57.2	300	50
ROLS62-1200			304.80	2.6	76.2	200	106.7	280	121.9	320	152.4	300	50
ROLS75-100			19.05	9.50	25.40	56.0	6.4	356	8.9	498	10.2	569	12.7
ROLS75-125	31.75	44.8			7.9	356	11.1	498	12.7	569	15.9	600	50
ROLS75-150	38.10	35.0			9.5	334	13.3	467	15.2	534	19.1	600	50
ROLS75-175	44.45	30.8			11.1	342	15.6	479	17.8	548	22.2	600	50
ROLS75-200	50.80	26.3			12.7	334	17.8	467	20.3	534	25.4	600	50
ROLS75-250	63.50	21.0			15.9	334	22.2	467	25.4	534	31.8	600	50
ROLS75-300	76.20	17.7			19.1	337	26.7	472	30.5	539	38.1	600	50
ROLS75-350	88.90	14.5			22.2	323	31.1	452	35.6	517	44.5	600	50
ROLS75-400	101.60	13.1			25.4	334	35.6	467	40.6	534	50.8	600	50
ROLS75-450	114.30	11.2			28.6	320	40.0	448	45.7	512	57.2	600	50
ROLS75-500	127.00	10.5			31.8	334	44.5	467	50.8	534	63.5	600	50
ROLS75-550	139.70	9.6			34.9	336	48.9	471	55.9	538	69.9	600	50
ROLS75-600	152.40	8.8			38.1	334	53.3	467	61.0	534	76.2	600	50
ROLS75-650	165.10	8.2			41.3	340	57.8	475	66.0	544	82.6	600	50
ROLS75-750	190.50	6.7			47.6	317	66.7	444	76.2	507	95.3	600	50
ROLS75-1200	304.80	4.2	76.2	320	106.7	448	121.9	512	152.4	600	50		

*Deflection values near solid intended for design information ONLY.

The color silver-blue is a registered trademark of Special Springs Srl.

Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs					
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	25% L ₀	35% L ₀	40% L ₀	50% L ₀						
	mm	mm	mm	N/mm	mm	N	mm	N		mm				
				± 10%	For Optimum Life	For Long Life	Max. Operating Def.	Max. Deflection						
ROLS100-100	25.40	12.70	25.40	96.3	6.4	612	8.9	856	10.2	979	12.7	50		
ROLS100-125			31.75	78.8	7.9	626	11.1	876	12.7	1001	15.9	50		
ROLS100-150			38.10	65.3	9.5	622	13.3	871	15.2	995	19.1	50		
ROLS100-175			44.45	56.0	11.1	623	15.6	872	17.8	996	22.2	50		
ROLS100-200			50.80	46.9	12.7	596	17.8	834	20.3	954	25.4	50		
ROLS100-250			63.50	36.6	15.9	581	22.2	814	25.4	930	31.8	50		
ROLS100-300			76.20	29.9	19.1	571	26.7	799	30.5	913	38.1	25		
ROLS100-350			88.90	25.4	22.2	564	31.1	790	35.6	903	44.5	25		
ROLS100-400			101.60	21.9	25.4	556	35.6	778	40.6	890	50.8	25		
ROLS100-450			114.30	19.3	28.6	551	40.0	771	45.7	881	57.2	25		
ROLS100-500			127.00	16.8	31.8	534	44.5	747	50.8	854	63.5	25		
ROLS100-550			139.70	15.4	34.9	538	48.9	753	55.9	861	69.9	25		
ROLS100-600			152.40	14.0	38.1	534	53.3	747	61.0	854	76.2	25		
ROLS100-700			177.80	12.6	44.5	560	62.2	785	71.1	897	88.9	25		
ROLS100-800	203.20	10.5	50.8	534	71.1	747	81.3	854	101.6	25				
ROLS100-1200	304.80	7.0	76.2	534	106.7	747	121.9	854	152.4	25				
ROLS125-150	31.75	15.88	38.10	86.9	9.5	827	13.3	1158	15.2	1324	19.1	50		
ROLS125-175			44.45	71.1	11.1	790	15.6	1106	17.8	1264	22.2	50		
ROLS125-200			50.80	65.8	12.7	836	17.8	1171	20.3	1338	25.4	50		
ROLS125-250			63.50	50.4	15.9	801	22.2	1121	25.4	1281	31.8	25		
ROLS125-300			76.20	42.0	19.1	801	26.7	1121	30.5	1281	38.1	25		
ROLS125-350			88.90	35.0	22.2	778	31.1	1090	35.6	1245	44.5	25		
ROLS125-400			101.60	30.8	25.4	783	35.6	1096	40.6	1253	50.8	25		
ROLS125-450			114.30	28.0	28.6	801	40.0	1121	45.7	1281	57.2	25		
ROLS125-500			127.00	25.0	31.8	795	44.5	1113	50.8	1272	63.5	25		
ROLS125-550			139.70	22.4	34.9	783	48.9	1096	55.9	1253	69.9	25		
ROLS125-600			152.40	21.0	38.1	801	53.3	1121	61.0	1281	76.2	25		
ROLS125-700			177.80	18.2	44.5	810	62.2	1133	71.1	1295	88.9	25		
ROLS125-800			203.20	15.4	50.8	783	71.1	1096	81.3	1253	101.6	25		
ROLS125-1000			254.00	12.6	63.5	801	88.9	1121	101.6	1281	127.0	25		
ROLS125-1200	304.80	10.5	76.2	801	106.7	1121	121.9	1281	152.4	25				
ROLS150-200	38.10	19.05	50.80	92.8	12.7	1179	17.8	1650	20.3	1886	25.4	25		
ROLS150-250			63.50	74.8	15.9	1187	22.2	1662	25.4	1899	31.8	25		
ROLS150-300			76.20	63.0	19.1	1201	26.7	1681	30.5	1922	38.1	25		
ROLS150-350			88.90	52.5	22.2	1168	31.1	1635	35.6	1868	44.5	25		
ROLS150-400			101.60	43.6	25.4	1108	35.6	1551	40.6	1772	50.8	25		
ROLS150-450			114.30	40.3	28.6	1151	40.0	1611	45.7	1841	57.2	25		
ROLS150-500			127.00	36.8	31.8	1168	44.5	1635	50.8	1868	63.5	25		
ROLS150-550			139.70	32.4	34.9	1131	48.9	1584	55.9	1810	69.9	25		
ROLS150-600			152.40	29.8	38.1	1134	53.3	1588	61.0	1815	76.2	25		
ROLS150-700			177.80	26.8	44.5	1191	62.2	1668	71.1	1906	88.9	25		
ROLS150-800			203.20	23.1	50.8	1174	71.1	1644	81.3	1879	101.6	25		
ROLS150-1000			254.00	18.6	63.5	1179	88.9	1650	101.6	1886	127.0	25		
ROLS150-1200			304.80	14.9	76.2	1134	106.7	1588	121.9	1815	152.4	25		
ROLS200-250			50.80	25.40	63.50	175.1	15.9	2780	22.2	3892	25.4	4448	31.8	25
ROLS200-300	76.20	145.3			19.1	2769	26.7	3876	30.5	4430	38.1	25		
ROLS200-350	88.90	118.5			22.2	2635	31.1	3689	35.6	4216	44.5	25		
ROLS200-400	101.60	105.1			25.4	2669	35.6	3736	40.6	4270	50.8	25		
ROLS200-450	114.30	92.8			28.6	2652	40.0	3713	45.7	4243	57.2	25		
ROLS200-500	127.00	82.3			31.8	2613	44.5	3658	50.8	4181	63.5	25		
ROLS200-550	139.70	70.9			34.9	2477	48.9	3468	55.9	3963	69.9	25		
ROLS200-600	152.40	68.3			38.1	2602	53.3	3643	61.0	4163	76.2	25		
ROLS200-700	177.80	54.6			44.5	2429	62.2	3400	71.1	3886	88.9	25		
ROLS200-800	203.20	49.9			50.8	2535	71.1	3550	81.3	4057	101.6	10		
ROLS200-1000	254.00	37.8			63.5	2402	88.9	3363	101.6	3843	127.0	10		
ROLS200-1200	304.80	32.4			76.2	2469	106.7	3456	121.9	3950	152.4	10		
ROLS250-300	63.50	38.10			76.20	189.3	19.1	3616	26.7	5054	30.5	5774	38.1	15
ROLS250-350					88.90	156.9	22.2	3483	31.1	4880	35.6	5586	44.5	15
ROLS250-400			101.60	133.4	25.4	3388	35.6	4749	40.6	5416	50.8	15		
ROLS250-450			114.30	116.7	28.6	3338	40.0	4668	45.7	5333	57.2	15		
ROLS250-500			127.00	104.0	31.8	3307	44.5	4628	50.8	5283	63.5	5		
ROLS250-550			139.70	93.1	34.9	3249	48.9	4553	55.9	5204	69.9	5		
ROLS250-600			152.40	84.3	38.1	3212	53.3	4493	61.0	5142	76.2	5		
ROLS250-700			177.80	72.6	44.5	3231	62.2	4516	71.1	5162	88.9	5		
ROLS250-800			203.20	62.8	50.8	3190	71.1	4465	81.3	5106	101.6	5		
ROLS250-1000			254.00	47.1	63.5	2991	88.9	4187	101.6	4785	127.0	5		
ROLS250-1200			304.80	41.0	76.2	3124	106.7	4375	121.9	4998	152.4	5		

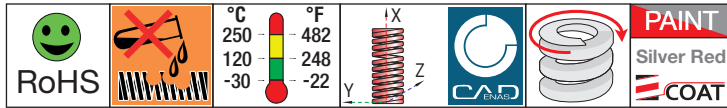
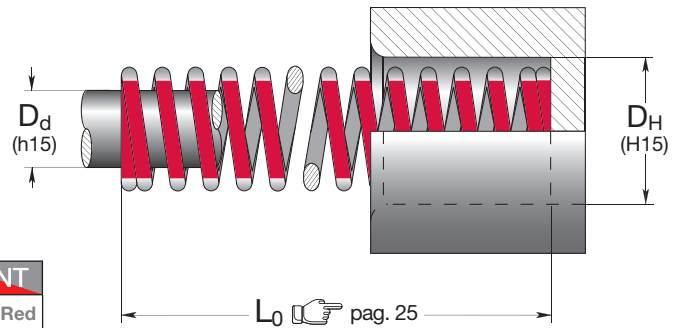
The color silver-blue is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

Load (N) = R (N/mm) x Deflection (mm) 1 N = 0.102 kgf

EN Medium heavy duty die springs
Silver-red color

ES Muelles carga medio-fuerte
Color plateado-rojo



Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Rate	A		B		C		D*	BOX Pcs
					20% L ₀	N	25% L ₀	N	30% L ₀	N	37% L ₀	
	mm	mm	mm	± 10% N/mm	mm	N	mm	N	mm	N	mm	
ROMS37-100	9.53	4.76	25.40	14.7	5.1	75	6.4	93	7.6	112	9.4	200
ROMS37-125			31.75	12.8	6.4	81	7.9	101	9.5	122	11.7	200
ROMS37-150			38.10	11.7	7.6	89	9.5	112	11.4	134	14.1	100
ROMS37-175			44.45	10.2	8.9	90	11.1	113	13.3	135	16.4	100
ROMS37-200			50.80	8.8	10.2	89	12.7	111	15.2	133	18.8	100
ROMS37-250			63.50	6.5	12.7	82	16.0	104	19.1	124	23.5	100
ROMS37-300			76.20	5.3	15.2	80	19.1	100	22.9	120	28.2	100
ROMS37-1200			304.80	1.4	61.0	85	76.2	107	91.4	128	112.8	50
ROMS50-100	12.70	7.14	25.40	27.1	5.1	138	6.4	173	7.6	207	9.4	100
ROMS50-125			31.75	21.4	6.4	136	7.9	168	9.5	204	11.7	100
ROMS50-150			38.10	17.2	7.6	131	9.7	165	11.4	196	14.1	100
ROMS50-175			44.45	14.9	8.9	132	11.1	165	13.3	198	16.4	100
ROMS50-200			50.80	13.1	10.2	133	12.7	167	15.2	200	18.8	100
ROMS50-250			63.50	10.5	12.7	133	15.9	167	19.1	200	23.5	50
ROMS50-300			76.20	8.9	15.2	136	19.1	170	22.9	204	28.2	50
ROMS50-350			88.90	7.0	17.8	125	22.2	156	26.7	187	32.9	50
ROMS50-400			101.60	6.4	20.3	130	25.4	163	30.5	195	37.6	50
ROMS50-1200			304.80	1.9	61.0	117	76.2	147	91.4	176	112.8	50
ROMS62-100	15.88	8.73	25.40	52.5	5.1	267	6.4	334	7.6	400	9.4	100
ROMS62-125			31.75	37.7	6.4	239	7.9	299	9.5	359	11.7	100
ROMS62-150			38.10	33.3	7.6	254	9.5	317	11.4	380	14.1	100
ROMS62-175			44.45	29.4	8.9	262	11.1	327	13.3	392	16.4	50
ROMS62-200			50.80	27.1	10.2	276	12.7	345	15.2	414	18.8	50
ROMS62-250			63.50	20.1	12.7	256	15.9	320	19.1	384	23.5	50
ROMS62-300			76.20	17.5	15.2	267	19.1	334	22.9	400	28.2	50
ROMS62-350			88.90	14.9	17.8	265	22.2	331	26.7	397	32.9	50
ROMS62-400			101.60	13.3	20.3	270	25.4	338	30.5	406	37.6	50
ROMS62-450			114.30	11.5	22.9	263	28.7	330	34.3	395	42.3	50
ROMS62-1200			304.80	4.6	61.0	278	76.2	347	91.4	416	112.8	50
ROMS75-100			19.05	9.53	25.40	87.6	5.1	445	6.4	556	7.6	667
ROMS75-125	31.75	66.5			6.4	423	7.9	528	9.5	634	11.7	50
ROMS75-150	38.10	54.3			7.6	414	9.7	524	11.4	620	14.1	50
ROMS75-175	44.45	47.3			8.9	420	11.2	528	13.3	631	16.4	50
ROMS75-200	50.80	42.0			10.2	427	12.7	534	15.2	641	18.8	50
ROMS75-250	63.50	32.9			12.7	418	16.0	527	19.1	627	23.5	50
ROMS75-300	76.20	26.1			15.2	398	19.1	497	22.9	596	28.2	50
ROMS75-350	88.90	22.4			17.8	399	22.2	498	26.7	598	32.9	50
ROMS75-400	101.60	19.3			20.3	391	25.4	489	30.5	587	37.6	50
ROMS75-450	114.30	17.5			22.9	400	28.7	503	34.3	600	42.3	50
ROMS75-500	127.00	15.8			25.4	400	31.8	500	38.1	600	47.0	50
ROMS75-550	139.70	14.0			27.9	391	34.9	489	41.9	587	51.7	50
ROMS75-600	152.40	13.1			30.5	400	38.1	500	45.7	600	56.4	50
ROMS75-1200	304.80	6.1			61.0	374	76.2	467	91.4	560	112.8	50

*Deflection values near solid intended for design information ONLY.

The color silver-red is a registered trademark of Special Springs Srl.

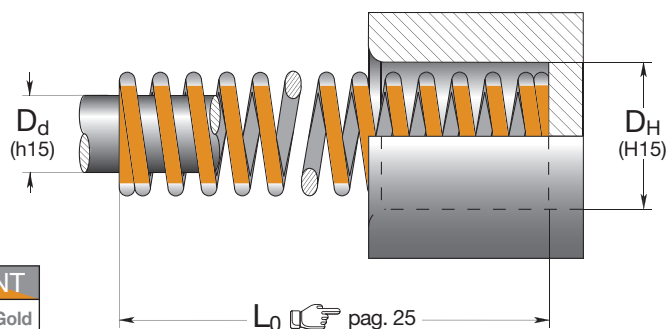
Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs					
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	20% L ₀	25% L ₀	30% L ₀	37% L ₀						
	mm	mm	mm	N/mm	mm	N	mm	N		mm	N	mm		
				± 10%	For Optimum Life	For Long Life	Max. Operating Def.	Max. Deflection						
ROMS100-100	25.40	12.70	25.40	144.8	5.1	736	6.4	920	7.6	1104	9.4	50		
ROMS100-125			31.75	114.3	6.4	726	7.9	900	9.5	1089	11.7	50		
ROMS100-150			38.10	94.2	7.6	718	9.7	909	11.4	1077	14.1	50		
ROMS100-175			44.45	80.7	8.9	718	11.2	902	13.3	1076	16.4	50		
ROMS100-200			50.80	70.0	10.2	712	12.7	890	15.2	1068	18.8	50		
ROMS100-250			63.50	56.4	12.7	716	16.0	902	19.1	1074	23.5	50		
ROMS100-300			76.20	46.8	15.2	713	19.1	891	22.9	1069	28.2	25		
ROMS100-350			88.90	40.1	17.8	713	22.4	896	26.7	1070	32.9	25		
ROMS100-400			101.60	35.4	20.3	719	25.4	898	30.5	1078	37.6	25		
ROMS100-450			114.30	31.2	22.9	713	28.7	894	34.3	1069	42.3	25		
ROMS100-500			127.00	27.5	25.4	698	31.8	873	38.1	1048	47.0	25		
ROMS100-550			139.70	24.0	27.9	670	34.9	838	41.9	1006	51.7	25		
ROMS100-600			152.40	21.9	30.5	667	38.1	834	45.7	1001	56.4	25		
ROMS100-700			177.80	19.1	35.6	679	44.5	849	53.3	1018	65.8	25		
ROMS100-800	203.20	16.8	40.6	683	50.8	854	61.0	1025	75.2	25				
ROMS100-1200	304.80	11.4	61.0	694	76.2	867	91.4	1041	112.8	25				
ROMS125-150	31.75	15.88	38.10	200.3	7.6	1527	9.5	1908	11.4	2290	14.1	50		
ROMS125-175			44.45	176.5	8.9	1569	11.1	1962	13.3	2354	16.4	50		
ROMS125-200			50.80	146.7	10.2	1491	12.7	1864	15.2	2236	18.8	50		
ROMS125-250			63.50	109.3	12.7	1388	15.9	1735	19.1	2082	23.5	25		
ROMS125-300			76.20	89.7	15.2	1366	19.1	1708	22.9	2050	28.2	25		
ROMS125-350			88.90	77.1	17.8	1370	22.2	1712	26.7	2055	32.9	25		
ROMS125-400			101.60	66.7	20.3	1356	25.4	1695	30.5	2034	37.6	25		
ROMS125-450			114.30	57.6	22.9	1317	28.7	1654	34.3	1976	42.3	25		
ROMS125-500			127.00	52.5	25.4	1334	31.8	1668	38.1	2002	47.0	25		
ROMS125-550			139.70	46.2	27.9	1292	34.9	1612	41.9	1938	51.7	25		
ROMS125-600			152.40	43.8	30.5	1334	38.1	1668	45.7	2002	56.4	25		
ROMS125-700			177.80	36.8	35.6	1308	44.5	1635	53.3	1962	65.8	25		
ROMS125-800			203.20	32.2	40.6	1309	50.8	1637	61.0	1964	75.2	25		
ROMS125-1000			254.00	25.4	50.8	1290	63.5	1612	76.2	1935	94.0	25		
ROMS125-1200	304.80	21.7	61.0	1324	76.2	1655	91.4	1986	112.8	25				
ROMS150-200	38.10	19.05	50.80	180.4	10.2	1833	12.7	2291	15.2	2749	18.8	25		
ROMS150-250			63.50	142.2	12.7	1806	16.0	2276	19.1	2709	23.5	25		
ROMS150-300			76.20	109.3	15.2	1665	19.1	2082	22.9	2498	28.2	25		
ROMS150-350			88.90	94.6	17.8	1681	22.4	2114	26.7	2522	32.9	25		
ROMS150-400			101.60	81.4	20.3	1655	25.4	2068	30.5	2482	37.6	25		
ROMS150-450			114.30	71.8	22.9	1641	28.7	2061	34.3	2462	42.3	25		
ROMS150-500			127.00	64.4	25.4	1637	31.8	2046	38.1	2455	47.0	25		
ROMS150-550			139.70	57.8	27.9	1615	34.9	2017	41.9	2422	51.7	25		
ROMS150-600			152.40	51.7	30.5	1575	38.1	1968	45.7	2362	56.4	25		
ROMS150-700			177.80	44.7	35.6	1588	44.5	1985	53.3	2382	65.8	25		
ROMS150-800			203.20	38.5	40.6	1566	50.8	1957	61.0	2349	75.2	25		
ROMS150-1000			254.00	30.8	50.8	1566	63.5	1957	76.2	2349	94.0	25		
ROMS150-1200			304.80	25.2	61.0	1537	76.2	1922	91.4	2306	112.8	25		
ROMS200-250			50.80	25.40	63.50	207.3	12.7	2633	15.9	3292	19.1	3950	23.5	25
ROMS200-300	76.20	162.8			15.2	2482	19.1	3102	22.9	3723	28.2	25		
ROMS200-350	88.90	136.9			17.8	2435	22.4	3061	26.7	3652	32.9	25		
ROMS200-400	101.60	116.3			20.3	2363	25.4	2953	30.5	3544	37.6	25		
ROMS200-450	114.30	105.1			22.9	2402	28.6	3002	34.3	3603	42.3	25		
ROMS200-500	127.00	93.5			25.4	2375	31.8	2969	38.1	3563	47.0	25		
ROMS200-550	139.70	85.8			27.9	2397	34.9	2994	41.9	3596	51.7	25		
ROMS200-600	152.40	78.8			30.5	2402	38.1	3002	45.7	3603	56.4	25		
ROMS200-700	177.80	65.5			35.6	2329	44.5	2911	53.3	3493	65.8	25		
ROMS200-800	203.20	57.8			40.6	2349	50.8	2936	61.0	3523	75.2	10		
ROMS200-1000	254.00	45.5			50.8	2313	63.5	2891	76.2	3469	94.0	10		
ROMS200-1200	304.80	37.6			61.0	2295	76.2	2869	91.4	3443	112.8	10		
ROMS250-300	63.50	38.10			76.20	300.1	15.2	4562	19.1	5732	22.9	6872	28.2	15
ROMS250-350					88.90	256.0	17.8	4557	22.2	5683	26.7	6835	32.9	15
ROMS250-400			101.60	225.0	20.3	4568	25.4	5715	30.5	6863	37.6	15		
ROMS250-450			114.30	196.0	22.9	4488	28.6	5606	34.3	6723	42.3	15		
ROMS250-500			127.00	176.0	25.4	4470	31.8	5597	38.1	6706	47.0	5		
ROMS250-550			139.70	159.0	27.9	4436	34.9	5549	41.9	6662	51.7	5		
ROMS250-600			152.40	144.0	30.5	4392	38.1	5486	45.7	6581	56.4	5		
ROMS250-700			177.80	120.0	35.6	4272	44.5	5340	53.3	6396	65.8	5		
ROMS250-800			203.20	104.5	40.6	4243	50.8	5309	61.0	6375	75.2	5		
ROMS250-900			228.60	92.0	45.7	4204	57.2	5262	68.6	6311	84.6	5		
ROMS250-1000			254.00	82.0	50.8	4166	63.5	5207	76.2	6248	94.0	5		
ROMS250-1200			304.80	66.0	61.0	4026	76.2	5029	91.4	6032	112.8	5		

The color silver-red is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

EN Heavy duty die springs
Silver-gold color

ES Muelles carga fuerte
Color plateado-oro



RoHS

°C: 250, 120, -30
°F: 482, 248, -22

CAD

PAINT
Silver Gold
COAT

Part number	D _H Hole Diameter	D _d Hole Diameter	L ₀ Free Length	R Spring Rate	A		B		C		D*	BOX
					15% L ₀	N	20% L ₀	N	25% L ₀	N	30% L ₀	
	mm	mm	mm	± 10% N/mm	For Optimum Life mm	N	For Long Life mm	N	Max. Operating Def. mm	N	Max. Deflection mm	Pcs
ROHS37-100	9.53	4.76	25.40	20.3	3.8	77	5.1	103	6.4	129	7.6	200
ROHS37-125			31.75	17.2	4.8	83	6.4	109	7.9	135	9.5	200
ROHS37-150			38.10	14.0	5.8	82	7.6	107	9.7	135	11.4	100
ROHS37-175			44.45	13.1	6.6	87	8.9	117	11.2	147	13.3	100
ROHS37-200			50.80	10.9	7.6	83	10.2	110	12.7	138	15.2	100
ROHS37-250			63.50	8.8	9.7	85	12.7	111	16.0	140	19.1	100
ROHS37-300			76.20	7.2	11.4	82	15.2	109	19.1	137	22.9	100
ROHS37-1200	304.80	1.9	45.7	88	61.0	117	76.2	147	91.4	50		
ROHS50-100	12.70	7.14	25.40	39.4	3.8	150	5.1	200	6.4	250	7.6	100
ROHS50-125			31.75	31.9	4.8	154	6.4	202	7.9	251	9.5	100
ROHS50-150			38.10	25.9	5.8	151	7.6	197	9.7	250	11.4	100
ROHS50-175			44.45	22.1	6.6	146	8.9	196	11.2	246	13.3	100
ROHS50-200			50.80	19.3	7.6	147	10.2	196	12.7	245	15.2	100
ROHS50-250			63.50	15.1	9.7	145	12.7	191	16.0	241	19.1	50
ROHS50-300			76.20	13.0	11.4	148	15.2	197	19.1	247	22.9	50
ROHS50-350			88.90	10.5	13.5	141	17.8	187	22.4	235	26.7	50
ROHS50-400			101.60	9.3	15.2	141	20.3	189	25.4	236	30.5	50
ROHS50-1200			304.80	3.0	45.7	136	61.0	181	76.2	227	91.4	50
ROHS62-100	15.88	8.73	25.40	74.2	3.8	283	5.1	377	6.4	471	7.6	100
ROHS62-125			31.75	56.9	4.8	275	6.4	362	7.9	448	9.5	100
ROHS62-150			38.10	49.0	5.8	286	7.6	374	9.7	473	11.4	100
ROHS62-175			44.45	42.0	6.6	278	8.9	374	11.2	470	13.3	50
ROHS62-200			50.80	36.4	7.6	278	10.2	370	12.7	463	15.2	50
ROHS62-250			63.50	29.8	9.7	287	12.7	378	16.0	476	19.1	50
ROHS62-300			76.20	24.5	11.4	280	15.2	374	19.1	467	22.9	50
ROHS62-350			88.90	21.4	13.5	288	17.8	380	22.4	478	26.7	50
ROHS62-400			101.60	18.9	15.2	288	20.3	384	25.4	480	30.5	50
ROHS62-450			114.30	16.7	17.3	288	22.9	382	28.7	479	34.3	50
ROHS62-1200	304.80	5.3	45.7	240	61.0	320	76.2	400	91.4	50		
ROHS75-100	19.05	9.53	25.40	189.1	3.8	721	5.1	961	6.4	1201	6.9	50
ROHS75-125			31.75	154.1	4.8	744	6.4	979	7.9	1213	8.9	50
ROHS75-150			38.10	120.8	5.8	706	7.6	921	9.7	1166	11.4	50
ROHS75-175			44.45	105.1	6.6	694	8.9	934	11.2	1174	13.3	50
ROHS75-200			50.80	90.2	7.6	687	10.2	916	12.7	1145	15.2	50
ROHS75-250			63.50	70.0	9.7	676	12.7	890	16.0	1121	19.1	50
ROHS75-300			76.20	57.8	11.4	661	15.2	881	19.1	1101	22.9	50
ROHS75-350			88.90	50.8	13.5	684	17.8	903	22.4	1135	26.7	50
ROHS75-400			101.60	43.8	15.2	667	20.3	890	25.4	1112	30.5	50
ROHS75-450			114.30	38.5	17.3	665	22.9	881	28.7	1106	34.3	50
ROHS75-500			127.00	34.1	19.1	651	25.4	867	31.8	1084	38.1	50
ROHS75-550			139.70	31.2	21.1	657	27.9	871	35.1	1092	41.9	50
ROHS75-600			152.40	28.0	22.9	641	30.5	854	38.1	1068	45.7	50
ROHS75-1200	304.80	14.0	45.7	641	61.0	854	76.2	1068	91.4	50		

*Deflection values near solid intended for design information ONLY.

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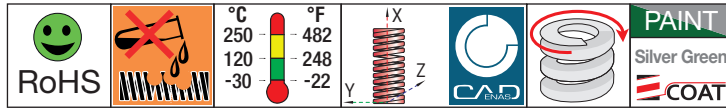
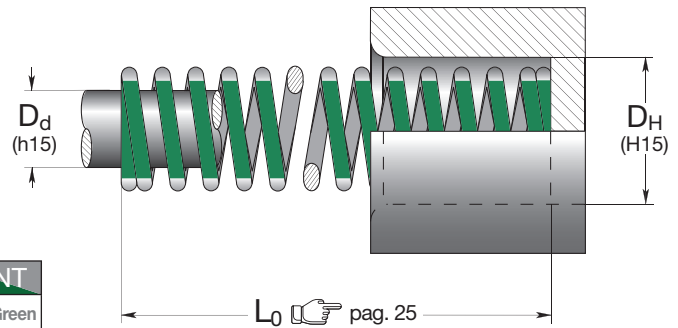
Part number	D _H	D _d	L ₀	R	 15% L ₀ For Optimum Life	A N	 20% L ₀ For Long Life	B N	 25% L ₀ Max. Operating Def.	C N	 30% L ₀ Max. Deflection	BOX						
	Hole Diameter	Rod Diameter	Free Length	Spring Rate								mm	mm	mm	mm	mm	mm	Pcs
	mm	mm	mm	N/mm								mm	N	mm	N	mm	N	mm
ROHS100-100	25.40	12.70	25.40	338.3	3.8	1289	5.1	1719	6.4	2148	6.9	50						
ROHS100-125			31.75	256.5	4.8	1238	6.4	1629	7.9	2020	9.5	50						
ROHS100-150			38.10	210.1	5.8	1228	7.6	1601	9.7	2028	11.4	50						
ROHS100-175			44.45	182.1	6.6	1203	8.9	1619	11.2	2035	13.3	50						
ROHS100-200			50.80	152.7	7.6	1164	10.2	1551	12.7	1939	15.2	50						
ROHS100-250			63.50	116.4	9.7	1124	12.7	1479	16.0	1864	19.1	50						
ROHS100-300			76.20	95.3	11.4	1089	15.2	1452	19.1	1815	22.9	25						
ROHS100-350			88.90	79.8	13.5	1075	17.8	1420	22.4	1785	26.7	25						
ROHS100-400			101.60	70.0	15.2	1068	20.3	1423	25.4	1779	30.5	25						
ROHS100-450			114.30	61.6	17.3	1065	22.9	1409	28.7	1769	34.3	25						
ROHS100-500			127.00	54.6	19.1	1041	25.4	1388	31.8	1735	38.1	25						
ROHS100-550			139.70	50.4	21.1	1063	27.9	1409	35.1	1768	41.9	25						
ROHS100-600			152.40	44.8	22.9	1025	30.5	1366	38.1	1708	45.7	25						
ROHS100-700			177.80	39.2	26.7	1046	35.6	1395	44.5	1744	53.3	25						
ROHS100-800			203.20	33.6	30.5	1025	40.6	1366	50.8	1708	61.0	25						
ROHS100-1200	304.80	22.4	45.7	1025	61.0	1366	76.2	1708	91.4	25								
ROHS125-150	31.75	15.88	38.10	385.2	5.8	2251	7.6	2936	9.7	3719	11.4	50						
ROHS125-175			44.45	318.0	6.6	2100	8.9	2827	11.2	3554	13.3	50						
ROHS125-200			50.80	261.9	7.6	1996	10.2	2662	12.7	3327	14.5	50						
ROHS125-250			63.50	205.9	9.7	1988	12.7	2615	16.0	3296	19.1	25						
ROHS125-300			76.20	166.7	11.4	1906	15.2	2541	19.1	3176	22.9	25						
ROHS125-350			88.90	136.6	13.5	1839	17.8	2429	22.4	3053	26.7	25						
ROHS125-400			101.60	116.3	15.2	1772	20.3	2363	25.4	2953	30.5	25						
ROHS125-450			114.30	102.3	17.3	1766	22.9	2338	28.7	2935	34.3	25						
ROHS125-500			127.00	92.8	19.1	1768	25.4	2357	31.8	2947	38.1	25						
ROHS125-550			139.70	82.6	21.1	1743	27.9	2309	35.1	2897	41.9	25						
ROHS125-600			152.40	78.8	22.9	1801	30.5	2402	38.1	3002	45.7	25						
ROHS125-700			177.80	64.4	26.7	1719	35.6	2292	44.5	2865	53.3	25						
ROHS125-800			203.20	57.4	30.5	1751	40.6	2334	50.8	2918	61.0	25						
ROHS125-1000			254.00	44.8	38.1	1708	50.8	2277	63.5	2847	76.2	25						
ROHS125-1200			304.80	38.5	45.7	1761	61.0	2349	76.2	2936	91.4	25						
ROHS150-200	38.10	19.05	50.80	346.7	7.6	2642	10.2	3523	12.7	4404	15.2	25						
ROHS150-250			63.50	271.4	9.7	2620	12.7	3447	16.0	4343	19.1	25						
ROHS150-300			76.20	227.6	11.4	2602	15.2	3469	19.1	4337	22.9	25						
ROHS150-350			88.90	186.3	13.5	2508	17.8	3313	22.4	4165	26.7	25						
ROHS150-400			101.60	159.7	15.2	2434	20.3	3245	25.4	4057	30.5	25						
ROHS150-450			114.30	142.9	17.3	2468	22.9	3267	28.7	4102	34.3	25						
ROHS150-500			127.00	127.8	19.1	2435	25.4	3247	31.8	4059	38.1	25						
ROHS150-550			139.70	117.3	21.1	2474	27.9	3278	35.1	4113	41.9	25						
ROHS150-600			152.40	102.3	22.9	2338	30.5	3117	38.1	3896	45.7	25						
ROHS150-700			177.80	86.8	26.7	2317	35.6	3089	44.5	3861	53.3	25						
ROHS150-800			203.20	75.6	30.5	2306	40.6	3074	50.8	3843	61.0	25						
ROHS150-1000			254.00	63.4	38.1	2415	50.8	3220	63.5	4025	76.2	25						
ROHS150-1200			304.80	52.5	45.7	2402	61.0	3203	76.2	4003	91.4	25						
ROHS200-250			50.80	25.40	63.50	439.9	9.7	4246	12.7	5587	16.0	7039	19.1	25				
ROHS200-300					76.20	360.7	11.4	4123	15.2	5498	19.1	6872	22.9	25				
ROHS200-350	88.90	297.7			13.5	4008	17.8	5293	22.4	6654	26.7	25						
ROHS200-400	101.60	262.7			15.2	4003	20.3	5338	25.4	6672	30.5	25						
ROHS200-450	114.30	222.7			17.3	3848	22.9	5092	28.7	6394	34.3	25						
ROHS200-500	127.00	207.7			19.1	3956	25.4	5275	31.8	6594	38.1	25						
ROHS200-550	139.70	188.6			21.1	3976	27.9	5270	35.1	6611	41.9	25						
ROHS200-600	152.40	171.1			22.9	3911	30.5	5215	38.1	6519	45.7	25						
ROHS200-700	177.80	143.6			26.7	3830	35.6	5106	44.5	6383	53.3	25						
ROHS200-800	203.20	127.8			30.5	3896	40.6	5195	50.8	6494	61.0	10						
ROHS200-1000	254.00	100.2			38.1	3816	50.8	5089	63.5	6361	76.2	10						
ROHS200-1200	304.80	83.5			45.7	3819	61.0	5092	76.2	6365	91.4	10						

The color silver-gold is a registered trademark of Special Springs Srl.

*Deflection values near solid intended for design information ONLY.

EN Extra heavy duty die springs
Silver-green color

ES Muelles carga extra-fuerte
Color platerado-verde



Part number	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Rate	A 15% L ₀		B 17% L ₀		C 20% L ₀		D* 25% L ₀		BOX Pcs
					± 10%	For Optimum Life	For Long Life	Max. Operating Def.	Max. Deflection				
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm		
ROES37-100	9.53	4.76	25.40	36.8	3.8	140	4.3	159	5.1	187	6.4	200	
ROES37-125			31.75	25.6	4.8	123	5.3	137	6.4	162	7.9	200	
ROES37-150			38.10	21.9	5.8	128	6.6	145	7.6	167	9.5	100	
ROES37-175			44.45	18.4	6.6	121	7.6	140	8.9	164	11.1	100	
ROES37-200			50.80	15.8	7.6	120	8.6	136	10.2	160	12.7	100	
ROES37-250			63.50	13.1	9.7	127	10.9	144	12.7	167	15.9	100	
ROES37-300			76.20	11.0	11.4	126	13.0	143	15.2	168	19.1	100	
ROES37-1200			304.80	2.6	45.7	120	51.8	136	61.0	160	76.2	50	
ROES50-100	12.70	7.14	25.40	54.3	3.8	207	4.3	234	5.1	276	6.4	100	
ROES50-125			31.75	42.0	4.8	203	5.3	224	6.4	267	7.9	100	
ROES50-150			38.10	33.6	5.8	197	6.6	222	7.6	256	9.5	100	
ROES50-175			44.45	29.8	6.6	197	7.6	227	8.9	265	11.1	100	
ROES50-200			50.80	24.5	7.6	187	8.6	212	10.2	249	12.7	100	
ROES50-250			63.50	20.1	9.7	194	10.9	220	12.7	256	15.9	50	
ROES50-300			76.20	16.5	11.4	188	13.0	213	15.2	251	19.1	50	
ROES50-350			88.90	14.0	13.5	189	15.2	214	17.8	249	22.2	50	
ROES50-400			101.60	12.5	15.2	190	17.3	216	20.3	254	25.4	50	
ROES50-1200			304.80	4.2	45.7	192	51.8	218	61.0	256	76.2	50	
ROES62-100	15.88	8.73	25.40	110.3	3.8	420	4.3	476	5.1	560	6.4	100	
ROES62-125			31.75	76.7	4.8	370	5.3	409	6.4	487	7.9	100	
ROES62-150			38.10	64.8	5.8	379	6.6	428	7.6	494	9.5	100	
ROES62-175			44.45	54.3	6.6	359	7.6	414	8.9	483	11.1	50	
ROES62-200			50.80	49.0	7.6	374	8.6	423	10.2	498	12.7	50	
ROES62-250			63.50	38.5	9.7	372	10.9	421	12.7	489	15.9	50	
ROES62-300			76.20	33.3	11.4	380	13.0	431	15.2	507	19.1	50	
ROES62-350			88.90	27.0	13.5	363	15.2	411	17.8	479	22.2	50	
ROES62-400			101.60	23.6	15.2	360	17.3	408	20.3	480	25.4	50	
ROES62-450			114.30	21.1	17.3	365	19.6	414	22.9	483	28.6	50	
ROES62-1200	304.80	7.9	45.7	360	51.8	408	61.0	480	76.2	50			
ROES75-100	19.05	9.53	25.40	245.1	3.8	934	4.3	1059	5.1	1245	6.4	50	
ROES75-125			31.75	192.6	4.8	930	5.3	1027	6.4	1223	7.9	50	
ROES75-150			38.10	155.8	5.8	911	6.6	1029	7.6	1188	9.5	50	
ROES75-175			44.45	131.3	6.6	867	7.6	1001	8.9	1168	11.1	50	
ROES75-200			50.80	115.6	7.6	881	8.6	998	10.2	1174	12.7	50	
ROES75-250			63.50	87.6	9.7	845	10.9	956	12.7	1112	15.9	50	
ROES75-300			76.20	70.9	11.4	811	13.0	919	15.2	1081	19.1	50	
ROES75-350			88.90	60.4	13.5	814	15.2	921	17.8	1074	22.2	50	
ROES75-400			101.60	52.5	15.2	801	17.3	907	20.3	1068	25.4	50	
ROES75-450			114.30	46.4	17.3	802	19.6	908	22.9	1061	28.6	50	
ROES75-500			127.00	41.1	19.1	784	21.6	889	25.4	1045	31.8	50	
ROES75-550			139.70	37.6	21.1	794	23.9	899	27.9	1052	34.9	50	
ROES75-600			152.40	34.1	22.9	781	25.9	885	30.5	1041	38.1	50	
ROES75-1200			304.80	16.6	45.7	761	51.8	862	61.0	1014	76.2	50	

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Part number	D _H	D _d	L ₀	R	A	B	C	D*	BOX ↓ Pcs			
	Hole Diameter	Rod Diameter	Free Length	Spring Rate	15% L ₀	17% L ₀	20% L ₀	25% L ₀				
	mm	mm	mm	N/mm	mm	N	mm	N		mm	N	mm
ROES100-100	25.40	12.70	25.40	426.8	3.8	1622	4.3	1835	5.1	2177	6.4	50
ROES100-125			31.75	328.6	4.8	1577	5.3	1742	6.4	2103	7.9	50
ROES100-150			38.10	280.2	5.8	1637	6.6	1850	7.6	2135	9.5	50
ROES100-175			44.45	234.5	6.6	1548	7.6	1782	8.9	2087	11.1	50
ROES100-200			50.80	203.1	7.6	1548	8.6	1754	10.2	2064	12.7	50
ROES100-250			63.50	156.9	9.7	1515	10.9	1714	12.7	1993	15.9	50
ROES100-300			76.20	128.9	11.4	1473	13.0	1670	15.2	1964	19.1	25
ROES100-350			88.90	109.3	13.5	1471	15.2	1665	17.8	1943	22.2	25
ROES100-400			101.60	96.7	15.2	1473	17.3	1670	20.3	1964	25.4	25
ROES100-450			114.30	85.4	17.3	1476	19.6	1672	22.9	1954	28.6	25
ROES100-500			127.00	75.6	19.1	1441	21.6	1633	25.4	1922	31.8	25
ROES100-550			139.70	68.9	21.1	1454	23.9	1647	27.9	1922	34.9	25
ROES100-600			152.40	63.0	22.9	1441	25.9	1633	30.5	1922	38.1	25
ROES100-700			177.80	53.4	26.7	1426	30.2	1613	35.6	1901	44.5	25
ROES100-800	203.20	46.5	30.5	1418	34.5	1604	40.6	1888	50.8	25		
ROES100-1200	304.80	30.8	45.7	1409	51.8	1597	61.0	1879	76.2	25		
ROES125-150	31.75	15.88	38.10	471.1	5.8	2732	6.6	3109	7.6	3580	9.5	50
ROES125-175			44.45	415.0	6.6	2739	7.6	3154	8.9	3694	11.1	25
ROES125-200			50.80	359.0	7.6	2736	8.6	3100	10.2	3647	12.7	50
ROES125-250			63.50	267.0	9.7	2578	10.9	2917	12.7	3392	15.9	25
ROES125-300			76.20	213.6	11.4	2442	13.0	2768	15.2	3256	19.1	25
ROES125-350			88.90	190.0	13.5	2558	15.2	2896	17.8	3378	22.2	25
ROES125-400			101.60	155.8	15.2	2375	17.3	2692	20.3	3167	25.4	25
ROES125-450			114.30	146.2	17.3	2526	19.6	2860	22.9	3343	28.6	25
ROES125-500			127.00	122.6	19.1	2335	21.6	2647	25.4	3114	31.8	25
ROES125-550			139.70	110.0	21.1	2321	23.9	2629	27.9	3069	34.9	25
ROES125-600			152.40	100.7	22.9	2302	25.9	2609	30.5	3069	38.1	25
ROES125-700			177.80	90.0	26.7	2403	30.2	2718	35.6	3204	44.5	25
ROES125-800			203.20	80.5	30.5	2455	34.5	2783	40.6	3274	50.8	25
ROES125-1000			254.00	60.4	38.1	2302	43.2	2609	50.8	3069	63.5	25
ROES125-1200	304.80	47.3	45.7	2162	51.8	2450	61.0	2882	76.2	25		
ROES150-200	38.10	19.05	50.80	715.3	7.6	5451	8.6	6178	10.2	7268	11.4	25
ROES150-250			63.50	575.2	9.7	5552	10.9	6283	12.7	7306	15.9	25
ROES150-300			76.20	446.5	11.4	5104	13.0	5785	15.2	6805	19.1	25
ROES150-350			88.90	373.8	13.5	5033	15.2	5698	17.8	6648	22.2	25
ROES150-400			101.60	323.1	15.2	4924	17.3	5580	20.3	6565	25.4	25
ROES150-450			114.30	284.5	17.3	4915	19.6	5566	22.9	6505	28.6	25
ROES150-500			127.00	253.9	19.1	4837	21.6	5482	25.4	6450	31.8	25
ROES150-550			139.70	229.0	21.1	4832	23.9	5473	27.9	6389	34.9	25
ROES150-600			152.40	211.0	22.9	4824	25.9	5467	30.5	6432	38.1	25
ROES150-700			177.80	180.0	26.7	4806	30.2	5436	35.6	6408	44.5	25
ROES150-800			203.20	158.5	30.5	4831	34.5	5475	40.6	6441	50.8	25
ROES150-1000			254.00	124.3	38.1	4737	43.2	5369	50.8	6316	63.5	25
ROES150-1200			304.80	96.3	45.7	4404	51.8	4991	61.0	5871	76.2	25
ROES200-250			50.80	25.40	63.50	719.7	9.7	6947	10.9	7861	12.7	9141
ROES200-300	76.20	558.6			11.4	6385	13.0	7236	15.2	8513	17.8	25
ROES200-350	88.90	484.0			13.5	6516	15.2	7377	17.8	8606	22.2	25
ROES200-400	101.60	404.7			15.2	6168	17.3	6990	20.3	8223	24.6	25
ROES200-450	114.30	330.6			17.3	5710	19.6	6467	22.9	7558	28.6	25
ROES200-500	127.00	315.9			19.1	6018	21.6	6821	25.4	8024	31.8	25
ROES200-550	139.70	280.0			21.1	5908	23.9	6692	27.9	7812	34.9	25
ROES200-600	152.40	257.9			22.9	5897	25.9	6683	30.5	7862	38.1	25
ROES200-700	177.80	220.0			26.7	5874	30.2	6644	35.6	7832	44.5	25
ROES200-800	203.20	195.4			30.5	5957	34.5	6751	40.6	7942	50.8	10
ROES200-1000	254.00	154.8			38.1	5898	43.2	6684	50.8	7864	63.5	10
ROES200-1200	304.80	124.7			45.7	5701	51.8	6461	61.0	7601	76.2	10

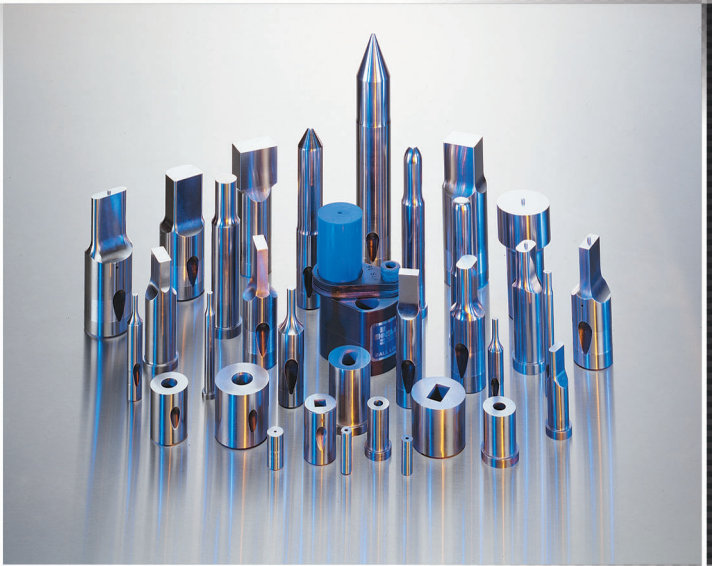
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