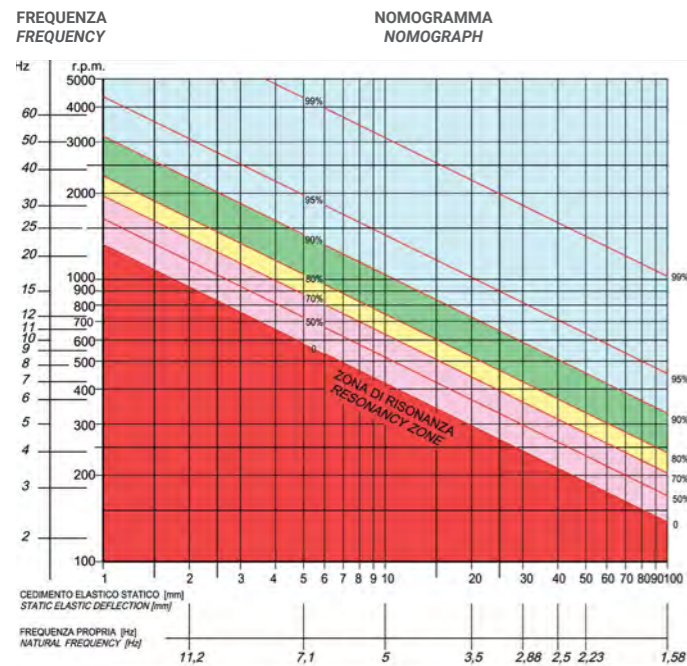


PER SCEGLIERE IL SUPPORTO ANTIVIBRANTE CORRETTO BISOGNA CONOSCERE:

1. PESO STATICO della macchina e NUMERO DEI PUNTI DI APPOGGIO con rispettivo carico gravante.
2. FREQUENZA ECCITANTE determinata dal corpo rotante con r.p.m. più bassa.
3. LUOGO D'INSTALLAZIONE: se la macchina viene installata in una zona sismica, in copertura, se è soggetta alle forze del vento o in una zona con elevata presenza di nebbie saline o altri agenti aggressivi.
4. TEMPERATURA D'IMPIEGO: bisogna tenere in considerazione le temperature alle quali saranno soggetti i supporti antivibranti.

L'INSTALLAZIONE È CORRETTA QUANDO TUTTI I SUPPORTI INSTALLATI PRESENTANO LA STESSA FRECCIA ELASTICA.

Se le basi di appoggio dei diversi supporti antivibranti non sono tra loro a livello, è necessario compensare tale mancanza utilizzando appositi registri (MARTINETTI).



TO CHOOSE THE CORRECT ANTI-VIBRATION MOUNT, YOU MUST KNOW:

1. The **STATIC WEIGHT** of the machine and the **NUMBER OF SUPPORT POINTS** with their respective loads;
2. The **EXCITATION FREQUENCY** determined by the rotating body at the lowest r.p.m..
3. **INSTALLATION SITE**: if the machine is installed in a seismic area, on the roof, if it is subject to wind forces or in an area with high presence of saline mists or other aggressive agents.
4. **WORKING TEMPERATURE**: the temperatures to which the anti-vibration mounts will be subject must be taken into consideration.

THE INSTALLATION IS CORRECT WHEN ALL THE INSTALLED MOUNTS HAVE THE SAME ELASTIC DEFLECTION.

If the support bases of the different anti-vibration mounts are not among them at level, it is necessary to compensate for this lack using special registers (JACKS).

Il diagramma degli isolamenti, riassume graficamente, le relazioni intercorrenti tra la freccia elastica espressa in mm, il regime vibrante in r.p.m. o i cicli/mm e il grado di isolamento espresso in %.

The insulation diagram shows graphically the ratios between the elastic deflections in mm, the vibration speed in r.p.m. or cycles/mm and the degree of insulation as a %.



SOSPENSIONI A MOLLA
SPRING HANGERS

Soleco engineering s.r.l. non si assume responsabilità nei casi dove si evidenzia l'errata installazione del supporto.

Soleco Engineering S.r.l. declines all responsibility in cases where the incorrect installation of the support is detected.

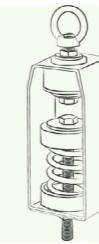
SERIE N - NG
N - NG SERIES

p. 4



SERIE NMN
NMN SERIES

p. 9



SERIE NMNa
NMNa SERIES

p. 10



IDENTIFICAZIONE DEL K DAL COLORE
K IDENTIFICATION THROUGH COLOUR

SERIE NMNT
NMNT SERIES

p. 12



ADATTO PER ALTE FREQUENZE
SUITABLE FOR HIGH FREQUENCIES

SERIE T
T SERIES

p. 13



SERIE N - NG

CARATTERISTICHE COSTRUTTIVE

- Struttura in acciaio UNI EN 10025-S235JR sabbiata, protetta da trattamento cataforetico e verniciata a polvere poliesteri con viti in acciaio zincato.
- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Placche di contenimento molla, formate da dischi in acciaio UNI EN 10111 DD13 zincate secondo UNI ISO 2081 Fe/Zn12c1A bianca rivestiti in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detergenti, ai raggi UV e alle temperature da -45°C a +110°C.
- Boccole in materiale termoplastico, inserite di testa e alla base, per garantire continuità d'isolamento dalle vibrazioni soniche.
- Viti in acciaio zincato opportunamente dimensionate al carico in tabella.

A RICHIESTA

- Verniciatura delle molle a polvere poliesteri, secondo la nostra tabella RAL;
- Golfare M12 - M16 - M20 per l'aggancio del tirante al punto fisso.

A RICHIESTA

Disponibile con struttura in acciaio INOX AISI 316 e molla in acciaio INOX AISI 302 nei seguenti modelli:

- NFW12: struttura metallica NF (p. 4)
- NV22 AISI 316 - NV305 AISI 316 - NV47 AISI 316 - NV510 AISI 316 - NV55 AISI 316: struttura metallica NV (p. 5)

Vedere il grafico a pagina 5 per le caratteristiche delle molle.

Tramite esecuzioni speciali e strutture rinforzate è possibile raggiungere carichi di 3.000 kg per punto.

N - NG SERIES

MANUFACTURING CHARACTERISTICS

- UNI EN 10025-S235JR sandblasted steel structure, protected by cathoretic treatment and polyester powder coated with galvanized steel screws.
- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cathoretic treatment.
- Spring containment plates, made of UNI EN 10111 DD13 galvanized steel discs according to UNI ISO 2081 Fe / Zn12c1A white coated in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents, UV rays and temperatures from -45°C to +110°C.
- Bushings in thermoplastic material, inserted at the head and at the base, to ensure continuity of isolation from sonic vibrations.
- Galvanized steel screws suitably sized for the load in the table.

ON REQUEST

- Painting of the spring with polyester powder, according to our RAL chart;
- M12 - M16 - M20 eyebolt for hooking the tie rod to the fixed point.

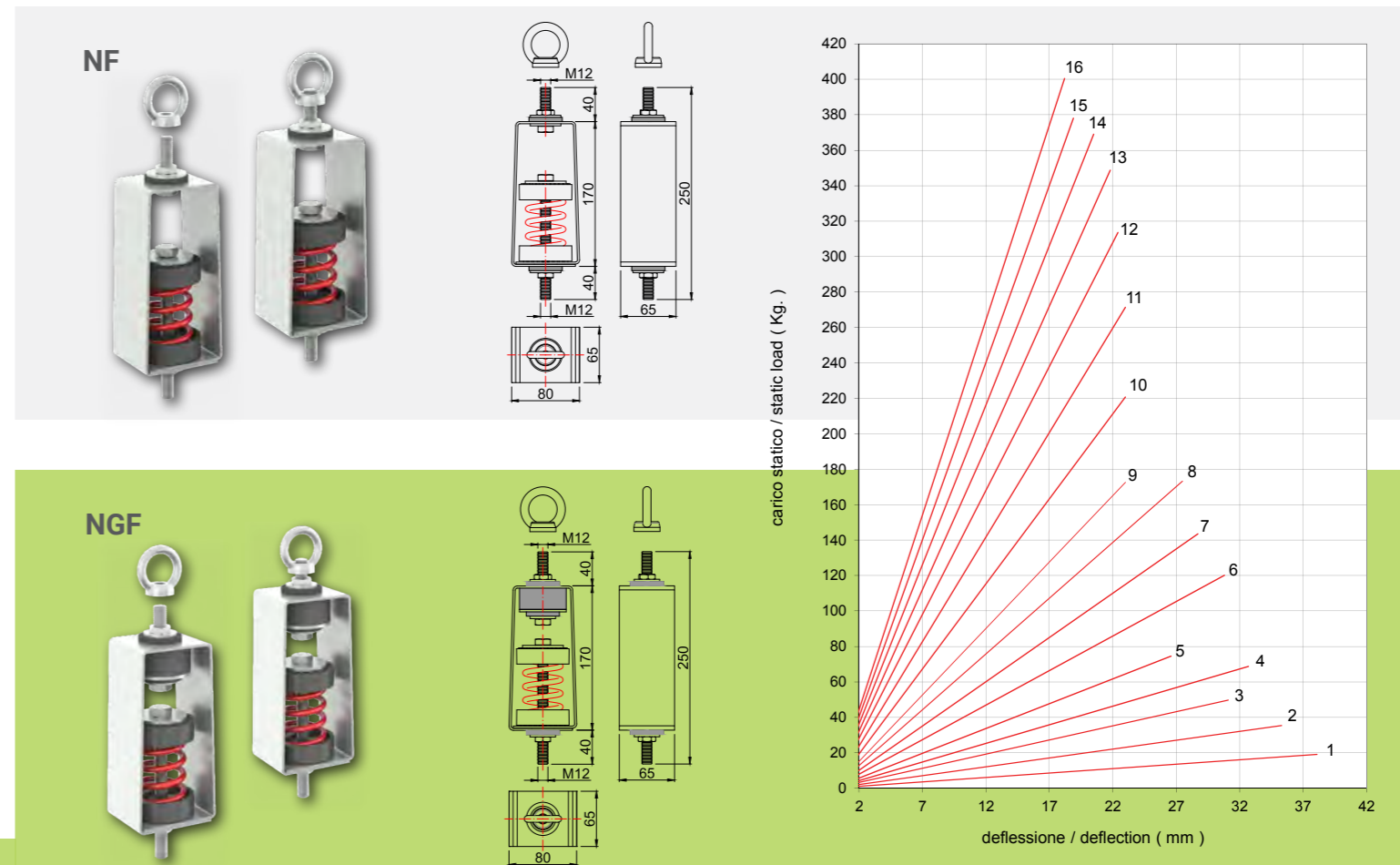
ON REQUEST

Available with AISI 316 STAINLESS steel structure and AISI 302 STAINLESS steel spring in the following models:

- NFW12: NF metal structure (p. 4)
- NV22 AISI 316 - NV305 AISI 316 - NV47 AISI 316 - NV510 AISI 316 - NV55 AISI 316: NV metal structure (p. 5)

See graphic on page 5 for the characteristics of the springs.

Through special executions and reinforced structures it is possible to reach loads of 3.000 kg per point.



ISOLA ANCHE LE ALTE FREQUENZE ISOLATION OF HIGH FREQUENCIES

N.	MODEL	WEIGHT (kg)	k
1	NF 1	1.16	0.5
2	NF 2	1.17	1.0
3	NF 4	1.20	1.6
4	NF 5	1.24	2.1
5	NF 8	1.26	2.8
6	NF 80	1.26	3.9
7	NF 9	1.26	5.0
8	NF 90	1.28	6.3
9	NF 10	1.35	7.5
10	NF 11	1.36	9.6
11	NF 12	1.35	11.8
12	NF 13	1.39	14.0
13	NF 130	1.46	16.0
14	NF 14	1.40	18.0
15	NF 20	1.48	20.0
16	NF 22	1.47	22.0

N.	MODEL	WEIGHT (kg)	k
1	NGF 1	1.17	0.5
2	NGF 2	1.18	1.0
3	NGF 4	1.22	1.6
4	NGF 5	1.25	2.1
5	NGF 8	1.27	2.8
6	NGF 80	1.28	3.9
7	NGF 9	1.27	5.0
8	NGF 90	1.29	6.3
9	NGF 10	1.36	7.5
10	NGF 11	1.37	9.6
11	NGF 12	1.37	11.8
12	NGF 13	1.41	14.0
13	NGF 130	1.47	16.0
14	NGF 14	1.41	18.0



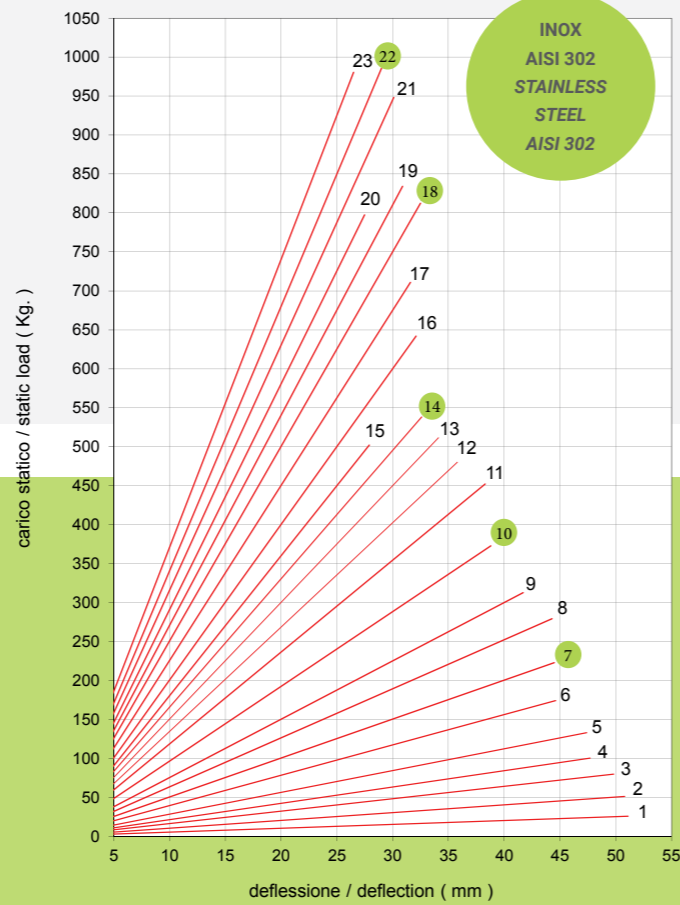
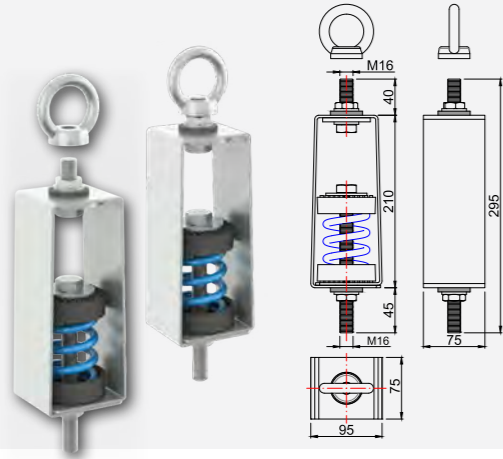
SERIE NG

Cuscinetto smorzatore in elastomero termoplastico adatto per temperature di impiego da -45°C a +110°C, elevata resistenza all'invecchiamento, alle sostanze inquinanti, agli idrocarburi, nebbie saline, raggi UV e detergenti. Composto da materiale riciclabile garantisce continuità d'isolamento dalle vibrazioni soniche anche in caso di ALTE frequenze.

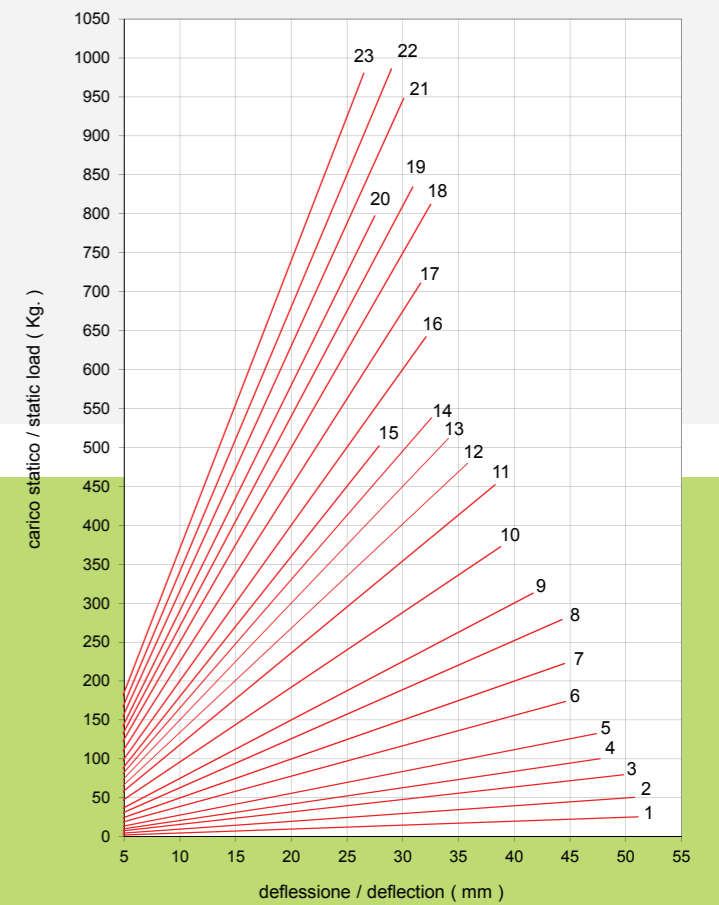
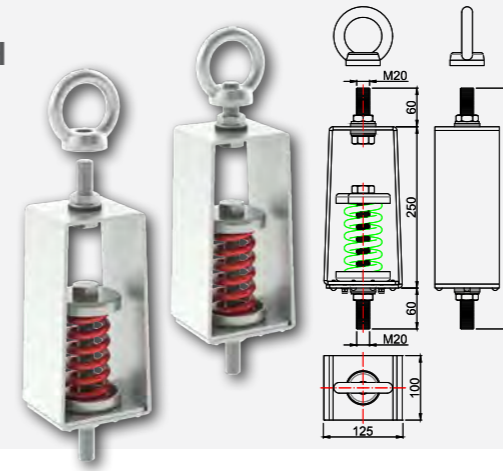
NG SERIES

Damper bearing in thermoplastic elastomer suitable for operating temperatures from -45°C to +110°C, high resistance aging, pollutants, hydrocarbons, saline mist, UV rays and detergents. Made of recyclable material, it guarantees continuity of isolation from sonic vibrations even in the case of HIGH frequencies.

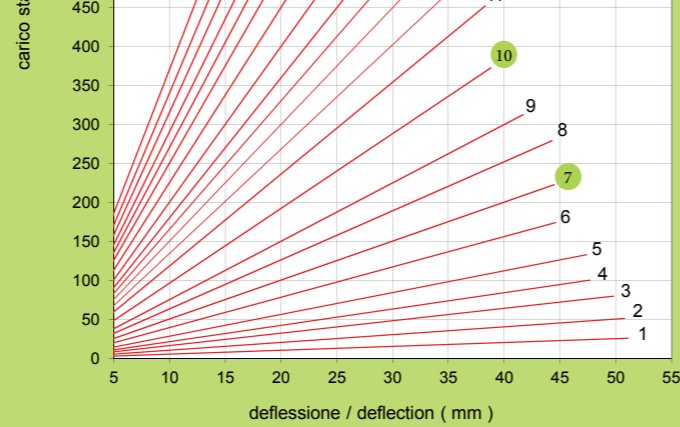
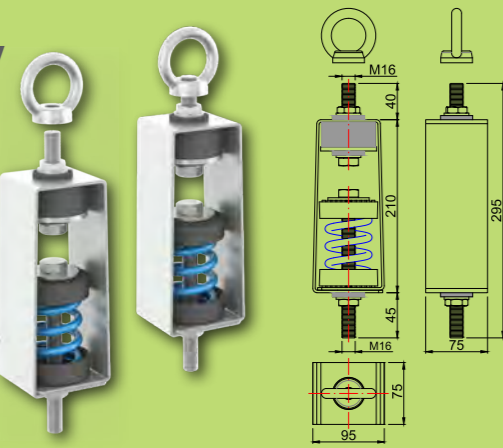
NW - NV



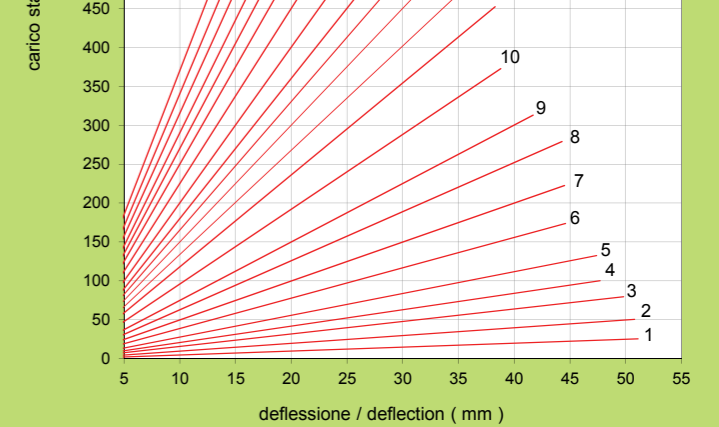
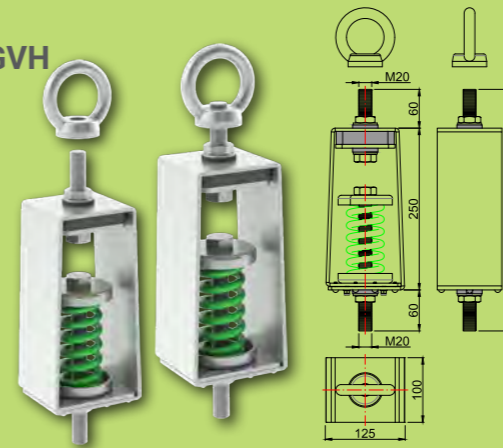
NWH - NVH



NGW - NGV



NGWH - NGVH



ISOLA ANCHE LE ALTE FREQUENZE ISOLATION OF HIGH FREQUENCIES

N.	MODEL	WEIGHT (kg)	k
1	NW 02	2.10	0.5
2	NW 04	2.12	1.0
3	NW 05	2.14	1.6
4	NW 06	2.17	2.1
5	NW 08	2.22	2.8
6	NW 09	2.26	3.9
7	NW 12	2.28	5.0
8	NV 14	2.33	6.3
9	NV 20	2.33	7.5
10	NV 22	2.44	9.6
11	NV 30	2.39	11.8
12	NV 300	2.44	13.4
13	NV 301	2.39	15.0
14	NV 305	2.50	16.5
15	NV 31	2.45	18.0
16	NV 33	2.53	20.0
17	NV 45	2.63	22.5
18	NV 47	2.64	25.0
19	NV 48	2.65	27.0
20	NV 50	2.57	29.0
21	NV 501	2.74	31.5
22	NV 510	2.82	34.0
23	NV 51	2.83	37.0

N.	MODEL	WEIGHT (kg)	k
1	NGW 02	2.21	0.5
2	NGW 04	2.23	1.0
3	NGW 05	2.26	1.6
4	NGW 06	2.29	2.1
5	NGW 08	2.33	2.8
6	NGW 09	2.37	3.9
7	NGW 12	2.39	5.0
8	NGV 14	2.44	6.3
9	NGV 20	2.44	7.5
10	NGV 22	2.55	9.6
11	NGV 30	2.49	11.8
12	NGV 300	2.55	13.4
13	NGV 301	2.50	15.0
14	NGV 305	2.62	16.5
15	NGV 31	2.56	18.0
16	NGV 33	2.65	20.0
17	NGV 45	2.74	22.5
18	NGV 47	2.75	25.0
19	NGV 48	2.76	27.0
20	NGV 50	2.69	29.0
21	NGV 501	2.85	31.5
22	NGV 510	2.93	34.0
23	NGV 51	2.94	37.0

ISOLA ANCHE LE ALTE FREQUENZE ISOLATION OF HIGH FREQUENCIES

N.	MODEL	WEIGHT (kg)	k
1	NWH 02	4.84	0.5
2	NWH 04	4.91	1.0
3	NWH 05	4.99	1.6
4	NWH 06	5.00	2.1
5	NWH 08	5.05	2.8
6	NWH 09	5.01	3.9
7	NWH 12	5.05	5.0
8	NVH 14	5.11	6.3
9	NVH 20	5.18	7.5
10	NVH 22	5.25	9.6
11	NVH 30	5.22	11.8
12	NVH 300	5.20	13.4
13	NVH 301	5.51	15.0
14	NVH 305	5.43	16.5
15	NVH 31	5.61	18.0
16	NVH 33	5.51	20.0
17	NVH 45	5.51	22.5
18	NVH 47	5.56	25.0
19	NVH 48	5.66	27.0
20	NVH 50	5.72	29.0
21	NVH 501	5.61	31.5
22	NVH 510	5.71	34.0
23	NVH 51	5.82	37.0

N.	MODEL	WEIGHT (kg)	k
1	NGWH 02	4.12	0.5
2	NGWH 04	4.19	1.0
3	NGWH 05	4.27	1.6
4	NGWH 06	4.28	2.1
5	NGWH 08	4.33	2.8
6	NGWH 09	4.29	3.9
7	NGWH 12	4.33	5.0
8	NGVH 14	4.39	6.3
9	NGVH 20	4.46	7.5
10	NGVH 22	4.53	9.6
11	NGVH 30	4.50	11.8
12	NGVH 300	4.82	13.4
13	NGVH 301	4.79	15.0
14	NGVH 305	4.71	16.5
15	NGVH 31	4.89	18.0
16	NGVH 33	4.79	20.0
17	NGVH 45	4.79	22.5
18	NGVH 47	4.84	25.0
19	NGVH 48	4.94	27.0
20	NGVH 50	5.00	29.0
21	NGVH 501	4.89	31.5
22	NGVH 510	4.99	34.0
23	NGVH 51	5.10	37.0



SERIE NMN

CARATTERISTICHE COSTRUTTIVE

- Struttura in acciaio UNI EN 10111 DD13 sabbiata, protetta da trattamento cataforetico e verniciata a polvere poliestere.
- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Placche di contenimento molla in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detersivi, ai raggi UV e alle temperature da -45°C a +110°C.
- Viti e dadi M8 o M10 per l'ancoraggio di testa e alla base del supporto.
- Anello elastico smorzatore per isolare le frequenze soniche.

A RICHIESTA

- Verniciatura delle molle a polvere poliestere, secondo la nostra tabella RAL;
- Golfare M8 - M10 per l'aggancio del tirante al punto fisso.

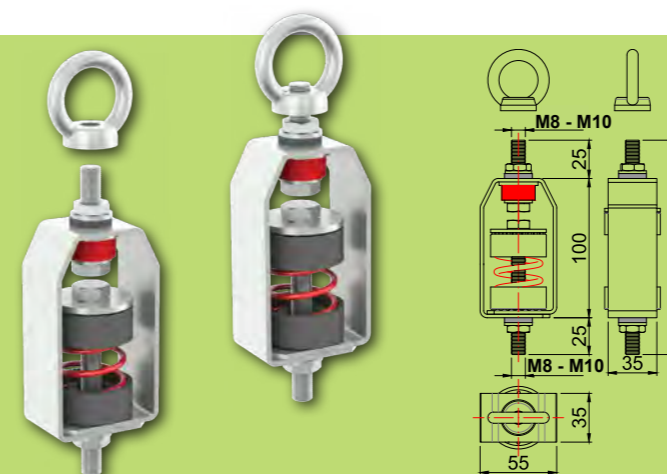
NMN SERIES

MANUFACTURING CHARACTERISTICS

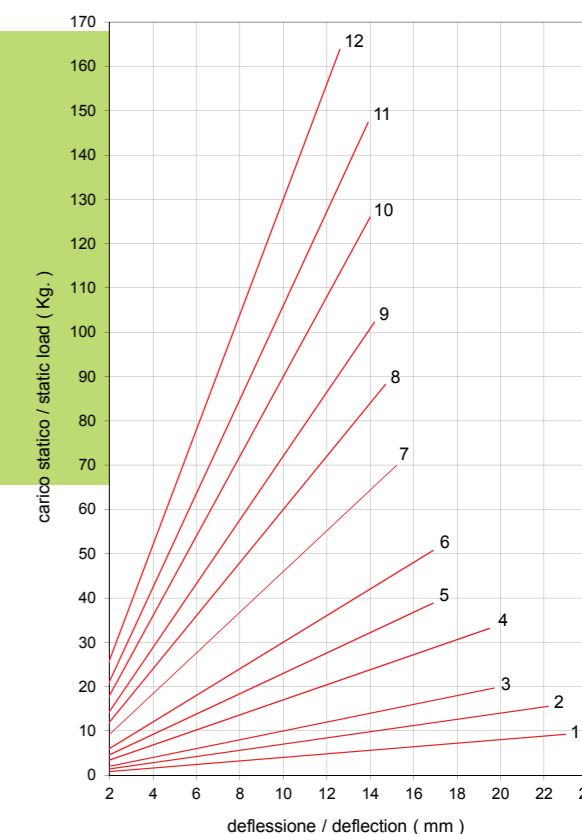
- Structure in sandblasted UNI EN 10111 DD13 steel, protected by cathoretic treatment and painted with polyester powder.
- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cathoretic treatment.
- Spring containment plates in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents, UV rays and temperatures from -45°C to +110°C.
- M8 or M10 screws and nuts for anchoring the head and base of the support.
- Damping snap ring to isolate sonic frequencies.

ON REQUEST

- Painting of the spring with polyester powder, according to our RAL chart;
- M8 - M10 eyebolt for hooking the tie rod to the fixed point.



N.	MODEL	WEIGHT (kg)	k
1	NMNZb 0	0.34	0.4
2	NMNZb 1	0.34	0.7
3	NMNZb 2	0.35	1.0
4	NMNZb 3	0.35	1.7
5	NMNZb 4	0.36	2.3
6	NMNZb 5	0.36	3.0
7	NMNZb 8	0.38	4.6
8	NMNxb 10	0.38	6.0
9	NMNxb 101	0.38	7.2
10	NMNxb 11	0.38	9.0
11	NMNxb 12	0.41	10.6
12	NMNxb 13	0.39	13.0



SERIE NMNa

CARATTERISTICHE COSTRUTTIVE

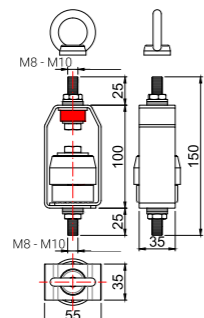
- Struttura in acciaio UNI EN 10111 DD13 sabbiata, protetta da trattamento cataforetico e verniciata a polvere poliestere.
- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Placche di contenimento molla con sistema telescopico, per aumentare la resistenza agli spostamenti laterali, in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detersivi, ai raggi UV e alle temperature da -45°C a +110°C.
- Placche colorate per un'immediata identificazione del modello installato.
- Viti e dadi M8 o M10 per l'ancoraggio di testa e alla base del supporto.
- Anello elastico smorzatore per isolare le frequenze soniche.

A RICHIESTA

- Golfare M8 - M10 per l'aggancio del tirante al punto fisso.



N.	MODEL	WEIGHT (kg)	k
1	NMNaZc 0	0.33	0.4
2	NMNaZc 1	0.34	0.7
3	NMNaZc 2	0.34	1.0
4	NMNaZc 3	0.34	1.7
5	NMNaZc 4	0.34	2.3
6	NMNaZc 5	0.35	3.0
7	NMNaZc 8	0.35	4.0
8	NMNaXc 10	0.35	5.5



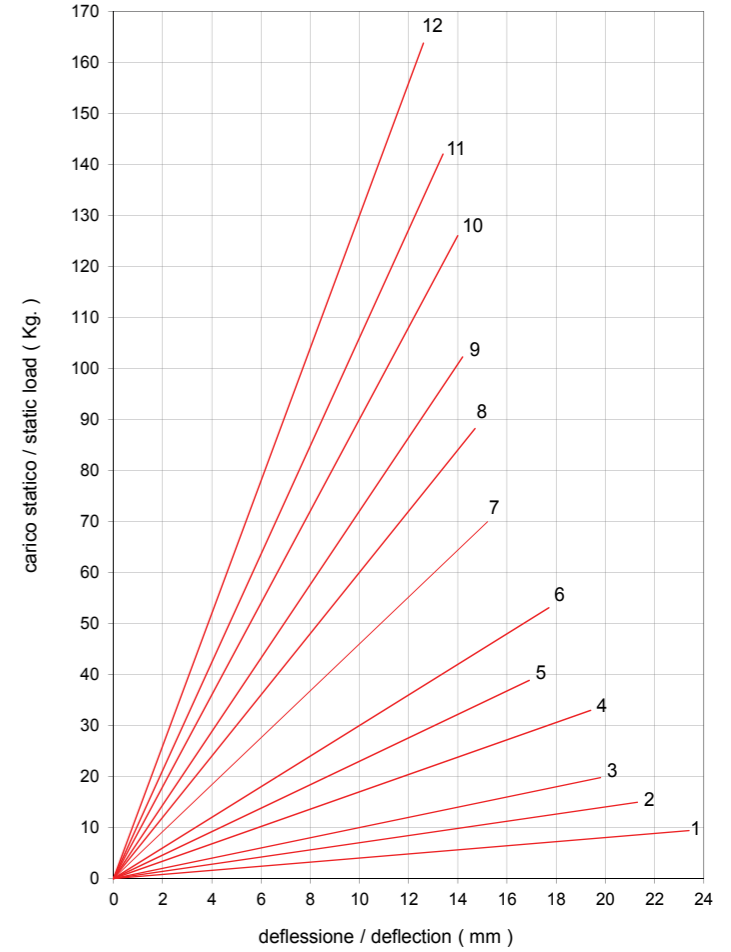
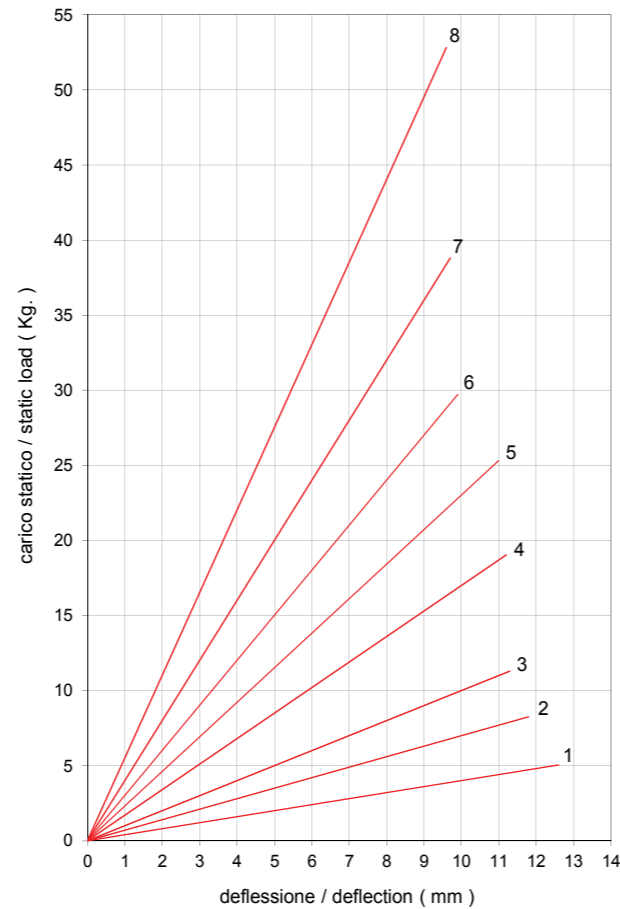
NMNa SERIES

MANUFACTURING CHARACTERISTICS

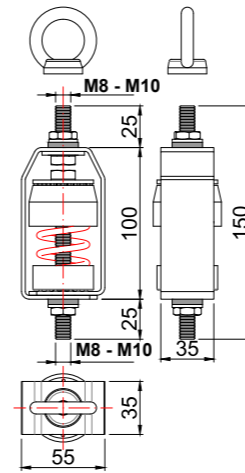
- Structure in sandblasted UNI EN 10111 DD13 steel, protected by cathoretic treatment and painted with polyester powder.
- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cathoretic treatment.
- Spring containment plates with telescopic system, to increase the resistance to lateral displacements, in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents, UV rays and temperatures from -45°C to +110°C.
- Colored plates for immediate identification of the model installed.
- M8 or M10 screws and nuts for anchoring the head and base of the support.
- Damping snap ring to isolate sonic frequencies.

ON REQUEST

- M8 - M10 eyebolt for hooking the tie rod to the fixed point.



MOLLA PROTETTA E IDENTIFICAZIONE IMMEDIATA CON IL COLORE PROTECTED SPRING AND IDENTIFICATION THROUGH THE COLOUR



N.	MODEL	WEIGHT (kg)	k
1	NMNaZb 0	0.33	0.4
2	NMNaZb 1	0.33	0.7
3	NMNaZb 2	0.33	1.0
4	NMNaZb 3	0.35	1.7
5	NMNaZb 4	0.33	2.3
6	NMNaZb 5	0.33	3.0
7	NMNaZb 8	0.33	4.6
8	NMNaXb 10	0.33	6.0
9	NMNaXb 101	0.33	7.2
10	NMNaXb 11	0.33	9.0
11	NMNaXb 12	0.33	10.6
12	NMNaXb 13	0.33	13.0

SERIE NMNT

CARATTERISTICHE COSTRUTTIVE

- Struttura in acciaio UNI EN 10111 DD13 sabbiata, protetta da trattamento cataforetico e verniciata a polvere poliestere.
- Placca e piedino smorzatore in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detergenti, ai raggi UV e alle temperature da -45°C a +110°C per le durezze 35, 45, 70 ShA e da -55°C a +135°C per il 60 ShA.
- Viti e dadi M8 o M10 per l'ancoraggio di testa e alla base del supporto.

Carichi variabili in funzione della durezza dei corpi elastici, forniti colorati per un'immediata identificazione:
35 ShA - VERDE; 45 ShA - BEIGE; 60 ShA - ROSSO; 70 ShA - NERO

A RICHIESTA

- Golfare M8 - M10 per l'aggancio del tirante al punto fisso.

NMNT SERIES

MANUFACTURING CHARACTERISTICS

- Structure in sandblasted UNI EN 10111 DD13 steel, protected by cathoretic treatment and painted with polyester powder.
- Plate and damper foot in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents, UV rays and temperatures from -45°C to +110°C for hardnesses 35, 45, 70 ShA and from -55°C to +135°C for 60 ShA.
- M8 or M10 screws and nuts for anchoring the head and base of the support.

Variable loads depending on the hardness of the elastic bodies, supplied colored for immediate identification:
35 ShA - GREEN; 45 ShA - BEIGE; 60 ShA - RED; 70 ShA - BLACK

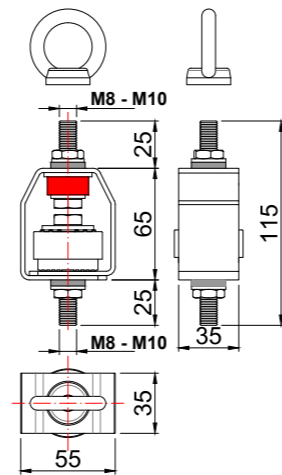
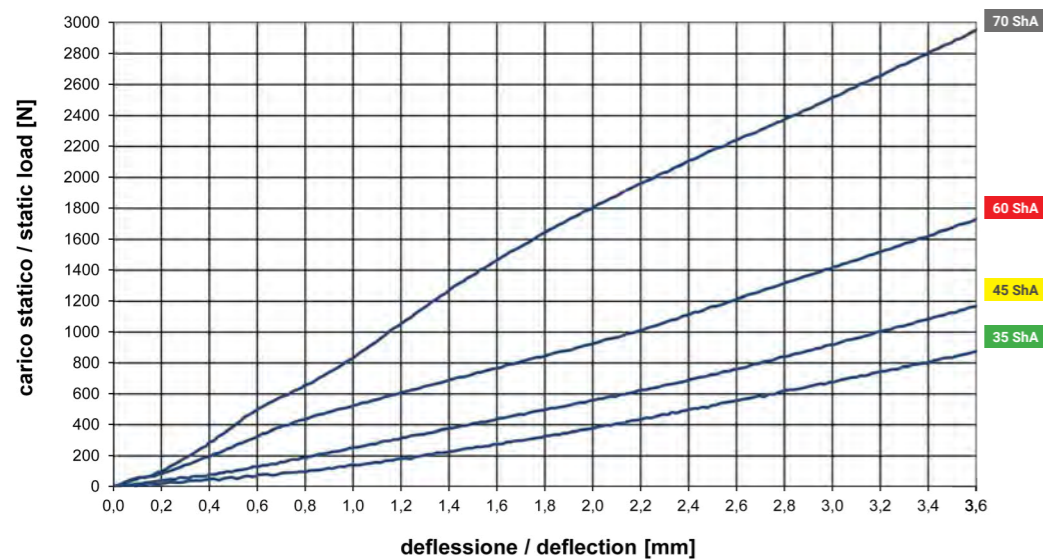
ON REQUEST

- M8 - M10 eyebolt for hooking the tie rod to the fixed point.



ADATTO PER LE ALTE FREQUENZE SUITABLE FOR HIGH FREQUENCIES

N.	MODEL	WEIGHT (kg)	k
1	NMNT 35 ShA	0.23	3.0
2	NMNT 45 ShA	0.23	3.0
3	NMNT 60 ShA	0.23	3.0
4	NMNT 70 ShA	0.23	3.0



SERIE T

CARATTERISTICHE COSTRUTTIVE

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Vite e cavallotto zincati, dimensionati per i carichi in tabella, passano all'interno della molla la quale, viene bloccata tra i dischi guida in acciaio UNI EN 10025-S235JR zincati secondo UNI ISO 2081 Fe/Zn12c1A bianca.
- Guarnizioni elastiche interposte tra molla e dischi guida garantiscono l'isolamento delle frequenze sonore.

A RICHIESTA

- Verniciatura delle molle a polvere poliestere, secondo la nostra tabella RAL;
- Golfare M10 - M12 per l'aggancio del tirante al punto fisso.

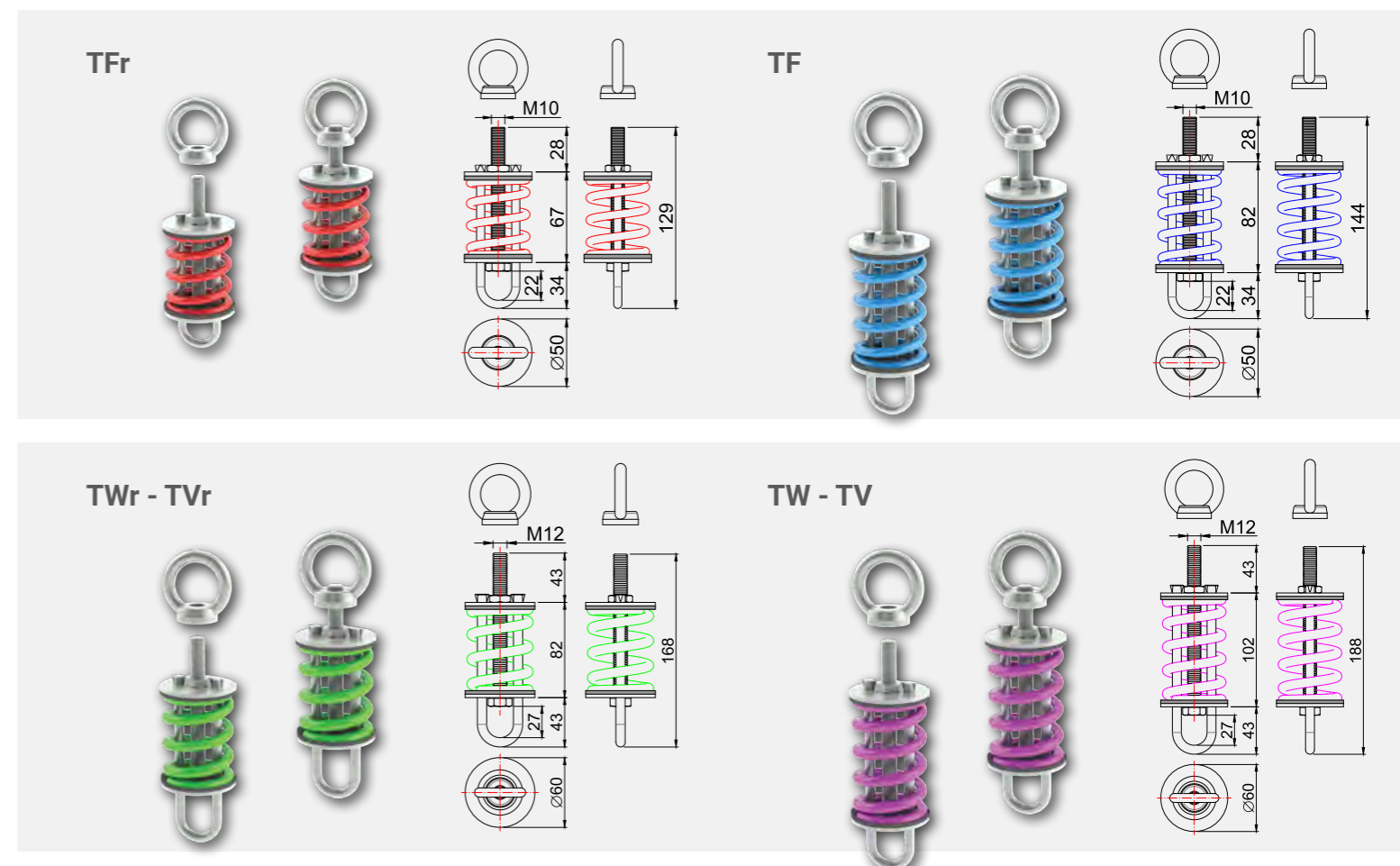
T SERIES

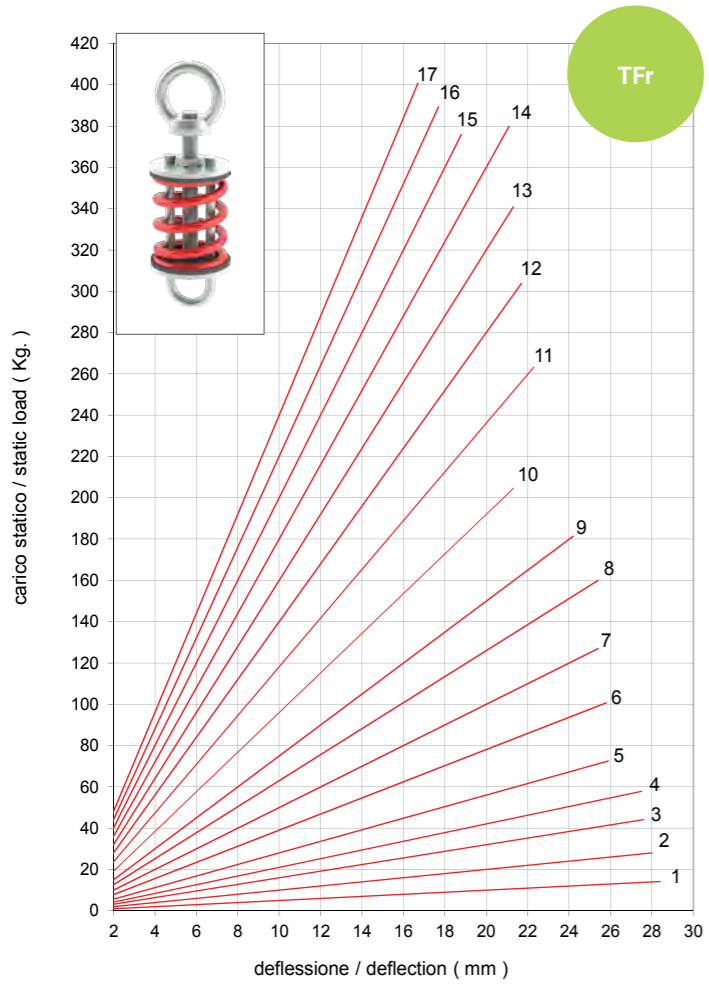
MANUFACTURING CHARACTERISTICS

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cathoretic treatment.
- Galvanized screw and U-bolt, sized for the loads in the table, pass inside the spring which is locked between the UNI EN 10025-S235JR galvanized steel guide discs according to UNI ISO 2081 Fe / Zn12c1A white.
- Elastic seals interposed between the spring and the guide discs ensure the isolation of sonic frequencies.

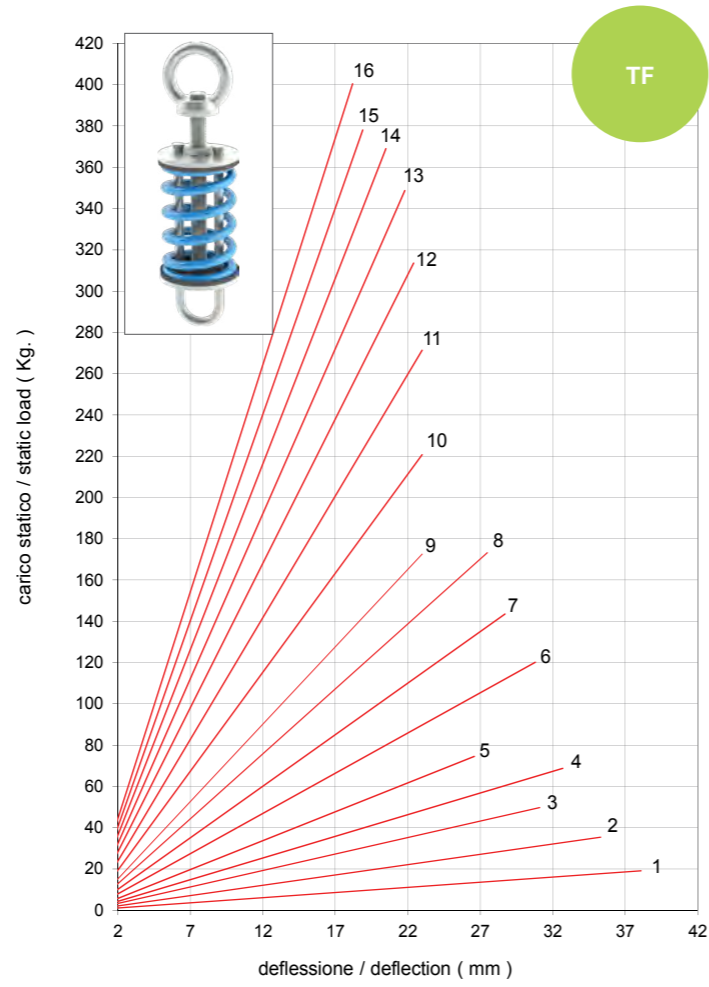
ON REQUEST

- Painting of the spring with polyester powder, according to our RAL chart;
- M10 - M12 eyebolt for hooking the tie rod to the fixed point.

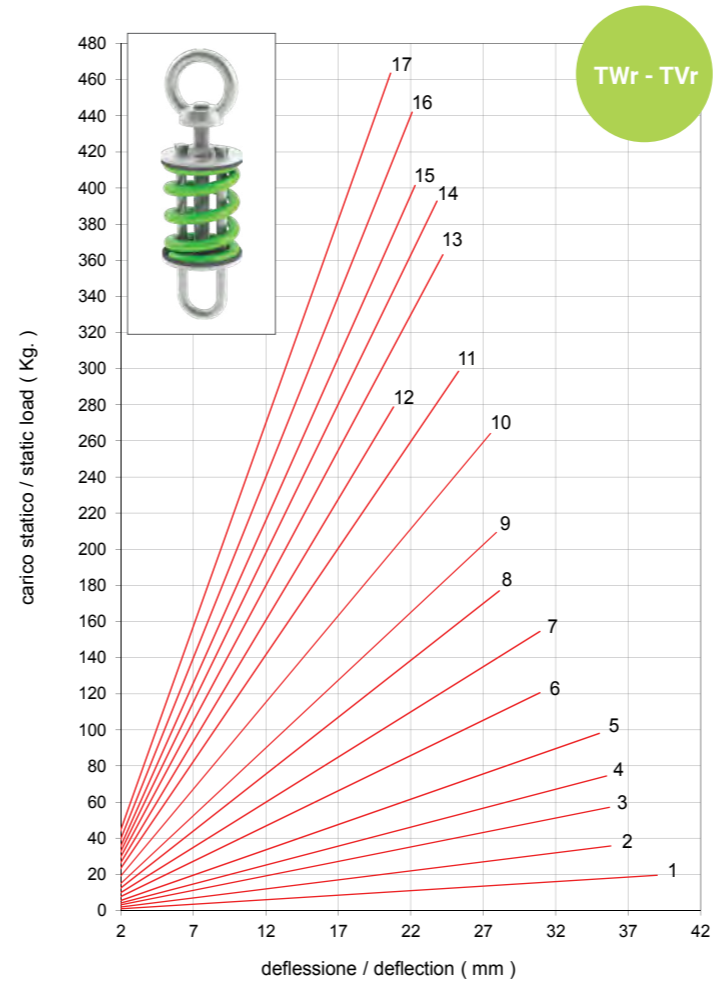




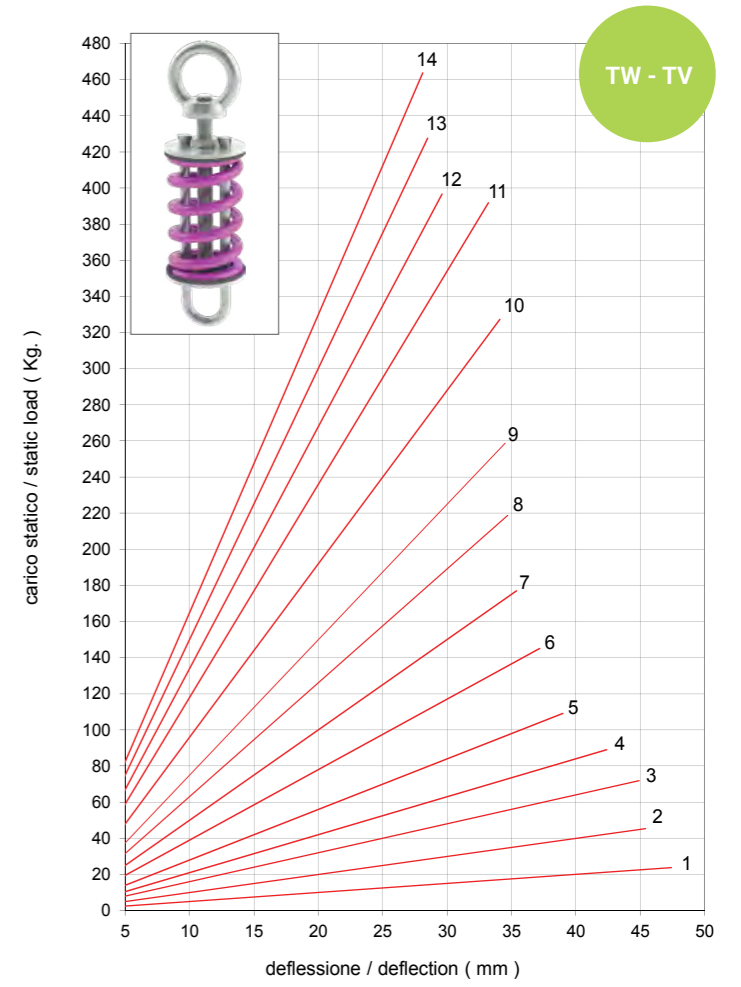
N.	MODEL	WEIGHT (kg)	k
1	TFr 1	0.20	0.5
2	TFr 2	0.21	1.0
3	TFr 4	0.23	1.6
4	TFr 5	0.23	2.1
5	TFr 8	0.26	2.8
6	TFr 80	0.26	3.9
7	TFr 9	0.28	5.0
8	TFr 90	0.28	6.3
9	TFr 10	0.29	7.5
10	TFr 11	0.31	9.6
11	TFr 12	0.32	11.8
12	TFr 13	0.32	14.0
13	TFr 130	0.35	16.0
14	TFr 14	0.34	18.0
15	TFr 20	0.39	20.0
16	TFr 22	0.38	22.0
17	TFr 30	0.34	24.0



N.	MODEL	WEIGHT (kg)	k
1	TF 1	0.22	0.5
2	TF 2	0.23	1.0
3	TF 4	0.26	1.6
4	TF 5	0.30	2.1
5	TF 8	0.32	2.8
6	TF 80	0.32	3.9
7	TF 9	0.32	5.0
8	TF 90	0.34	6.3
9	TF 10	0.41	7.5
10	TF 11	0.42	9.6
11	TF 12	0.41	11.8
12	TF 13	0.45	14.0
13	TF 130	0.52	16.0
14	TF 14	0.46	18.0
15	TF 20	0.54	20.0
16	TF 22	0.53	22.0



N.	MODEL	WEIGHT (kg)	k
1	TWr 02	0.40	0.5
2	TWr 04	0.41	1.0
3	TWr 05	0.42	1.6
4	TWr 06	0.50	2.1
5	TWr 08	0.45	2.8
6	TWr 09	0.48	3.9
7	TWr 12	0.51	5.0
8	TVr 14	0.54	6.3
9	TVr 20	0.57	7.5
10	TVr 22	0.59	9.6
11	TVr 30	0.62	11.8
12	TVr 300	0.63	13.4
13	TVr 301	0.65	15.0
14	TVr 305	0.67	16.5
15	TVr 31	0.68	18.0
16	TVr 33	0.64	20.0
17	TVr 45	0.72	22.5



N.	MODEL	WEIGHT (kg)	k
1	TW 02	0.44	0.5
2	TW 04	0.46	1.0
3	TW 05	0.49	1.6
4	TW 06	0.52	2.1
5	TW 08	0.56	2.8
6	TW 09	0.60	3.9
7	TW 12	0.62	5.0
8	TV 14	0.67	6.3
9	TV 20	0.67	7.5
10	TV 22	0.78	9.6
11	TV 30	0.72	11.8
12	TV 300	0.78	13.4
13	TV 301	0.73	15.0
14	TV 305	0.85	16.5