

# ANTIVIBRANTI MONOMOLLA SINGLE SPRING MOUNT



 **Soleco**  
engineering s.r.l.

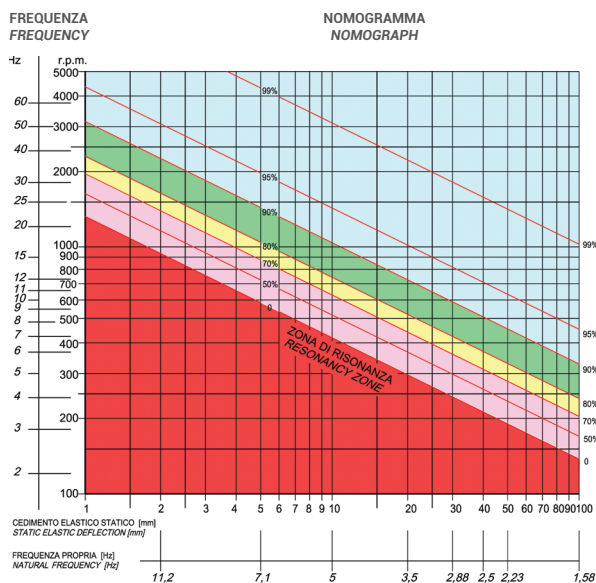
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### PER SCEGLIERE IL SUPPORTO ANTIVIBRANTE CORRETTO BISOGNA CONOSCERE:

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 %.





# **SERIE MC – EMC – E – MN – PMN**

## **MC – EMC – E – MN – PMN SERIES**



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.

## CARATTERISTICHE COSTRUTTIVE

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Placca base e placca superiore formate da una piastra o disco in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, rivestiti in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detergenti, e ai raggi UV.
- La molla, alloggiata all'interno delle placche, viene bloccata mediante l'applicazione di adesivi speciali.
- La superficie delle placche presenta rilievi deformabili che consentono all'antivibrante caricato di stazionare per attrito e allo stesso tempo riducono la trasmissione di rumori.

## A RICHIESTA

- Verniciatura della molla a polvere poliestere, colori secondo nostra tabella RAL.
- Le serie MC e MN possono essere fornite con ancoraggio vite-dado o vite-vite.

## MANUFACTURING CHARACTERISTICS

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cataphoretic treatment.
- Base plate and upper plate formed by a plate or disc in UNI EN 10111 DD13 steel, galvanized according to UNI ISO 2081 Fe/Zn 12c1A, coated in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents and to UV.
- The spring, housed inside the plates, is blocked by applying special adhesives.
- The surface of the plates has deformable reliefs that allow the loaded anti-vibration mount to be stationary by friction and at the same time reduce the transmission of noise.

## ON REQUEST

- Polyester powder coating of the spring, colors according to our RAL chart.
- The MC and MN series can be supplied with screw-nut or screw-screw anchoring.

## MOLLA INCOLLATA

La molla viene alloggiata all'interno delle placche e bloccata mediante l'applicazione di adesivi speciali testati per garantirne la tenuta.

## GLUED SPRING

The spring is housed inside the plates and blocked by applying special adhesives tested to ensure their tightness.

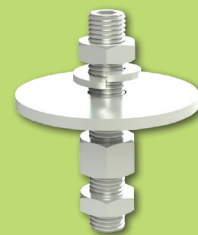


## ACCESSORI

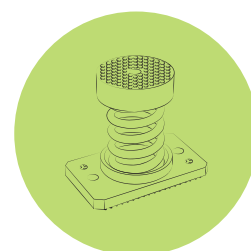
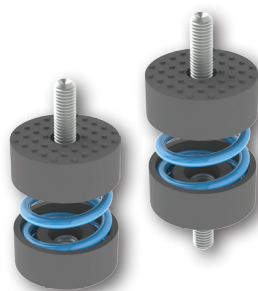
- Martinetto, in acciaio zincato o inox AISI 316, per la registrazione della quota macchina.

## ACCESSORIES

- Jack in galvanized steel or in stainless steel AISI 316, to facilitate the registration of the machine level.



| CODE          | DESCRIPTION | SUITABLE FOR SERIES |
|---------------|-------------|---------------------|
| 0000MRM8/0000 | jack M8     | MC - EMC - PMN      |
| 0000MRM10/000 | jack M10    | MC - EMC - PMN      |
| 0000MRM12/000 | jack M12    | MC - EMC            |





#### **SERIE MC**

##### **ANCORAGGIO CON VITI**

Le placche sono dotate di fori filettati M8, M10 o M12 per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra, disponibili anche in versione foro passante diametro 12.5 mm (MCF), 16.5 o 20.5 mm (MCV).

#### **MC SERIES**

##### **ANCHORING WITH SCREWS**

The plates are equipped with M8, M10 or M12 threaded holes for anchoring the anti-vibration mount to the machine base and / or to the ground, also available in a 12.5 mm diameter (MCF), 16.5 or 20.5 mm (MCV) through hole version.



#### **SERIE EMC**

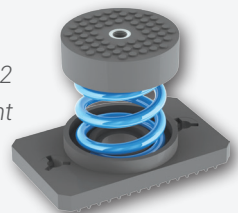
##### **ANCORAGGIO A TERRA CON PLACCA BASE**

La placca superiore è dotata di foro filettato M8, M10 o M12 per l'ancoraggio dell'antivibrante al basamento della macchina. La placca base è dotata di 2 fori ai lati per l'ancoraggio dell'antivibrante verso terra.

#### **EMC SERIES**

##### **GROUND ANCHORING WITH BASE PLATE**

The upper plate is equipped with an M8, M10 or M12 threaded hole for anchoring the anti-vibration mount to the machine base. The base plate has 2 holes on the sides for anchoring the anti-vibration mount to the ground.



#### **SERIE E**

##### **ANCORAGGIO A TERRA E ALLA MACCHINA**

Le placche sono dotate di 2 fori ai lati per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra. La placca superiore inoltre è dotata di bussola filettata centrale M12 o M16.

#### **E SERIES**

##### **GROUND AND MACHINE ANCHORING**

The plates have 2 holes on the sides for anchoring the anti-vibration mount to the machine base and / or to the ground. The upper plate is also equipped with a central M12 or M16 threaded bush.



#### **SERIE MN**

##### **ANCORAGGIO CON VITI**

Le placche sono dotate di fori filettati M8 o M10 per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra, disponibili anche in versione foro passante diametro 9 o 11 mm.

#### **MN SERIES**

##### **ANCHORING WITH SCREWS**

The plates have M8 or M10 threaded holes for anchoring the anti-vibration mount to the base of the machine and / or to the ground, also available in a 9 or 11 mm diameter through hole version.



#### **SERIE PMN**

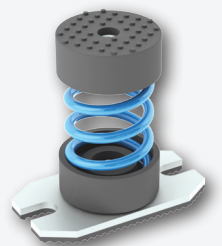
##### **ANCORAGGIO A TERRA CON PIASTRA BASE**

Piastra base in acciaio UNI EN 10111 DD13, zincata secondo UNI ISO 2081 Fe/Zn 12c1A, dotata di 2 sedi per l'ancoraggio dell'antivibrante verso terra. La placca superiore è dotata di filettatura M8 o M10 per l'ancoraggio al basamento della macchina.

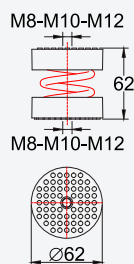
#### **PMN SERIES**

##### **GROUND ANCHORING WITH BASE PLATE**

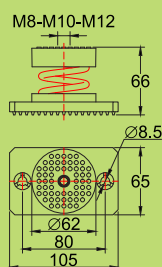
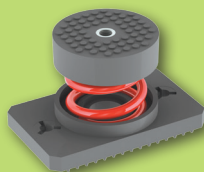
Base plate in UNI EN 10111 DD13 steel, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, equipped with 2 seats for anchoring the anti-vibration mount to the ground. The upper plate is equipped with an M8 or M10 thread for anchoring to the machine base.



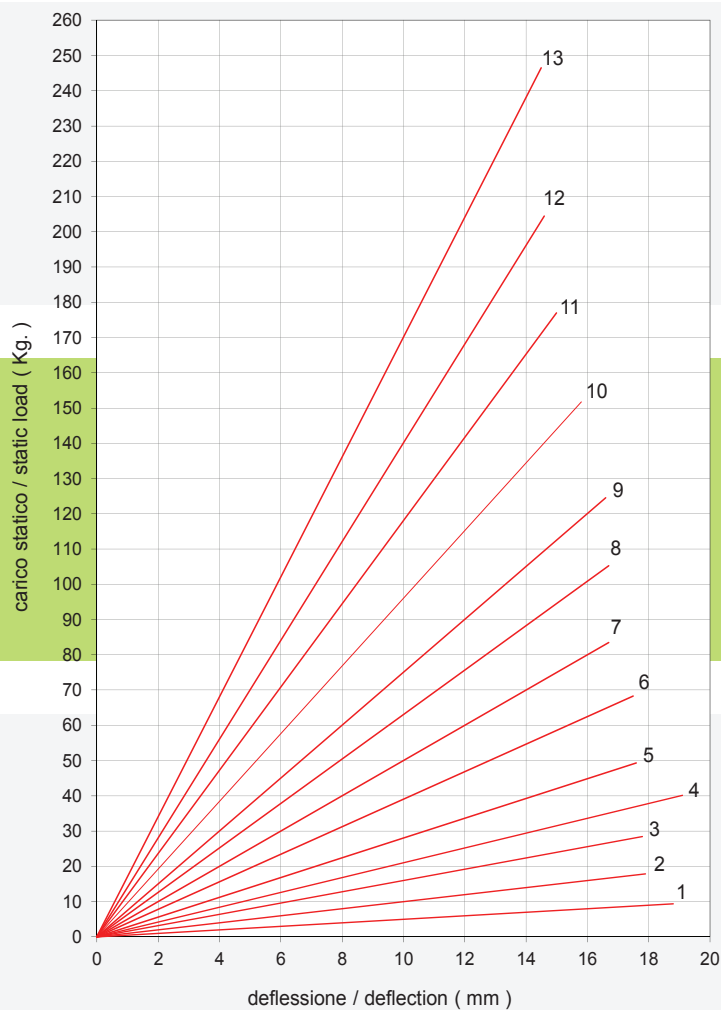
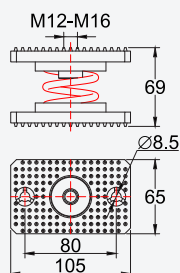
### MCFb



### EMCFb



### EFb



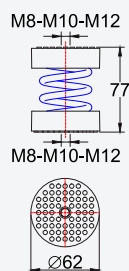
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MCFb 1  | 0.17        | 0.5  |
| 2  | MCFb 2  | 0.17        | 1.0  |
| 3  | MCFb 4  | 0.18        | 1.6  |
| 4  | MCFb 5  | 0.17        | 2.1  |
| 5  | MCFb 8  | 0.19        | 2.8  |
| 6  | MCFb 80 | 0.18        | 3.9  |
| 7  | MCFb 9  | 0.21        | 5.0  |
| 8  | MCFb 90 | 0.21        | 6.3  |
| 9  | MCFb 10 | 0.21        | 7.5  |
| 10 | MCFb 11 | 0.22        | 9.6  |
| 11 | MCFb 12 | 0.25        | 11.8 |
| 12 | MCFb 13 | 0.24        | 14.0 |
| 13 | MCFb 14 | 0.25        | 17.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | EMCFb 1  | 0.24        | 0.5  |
| 2  | EMCFb 2  | 0.24        | 1.0  |
| 3  | EMCFb 4  | 0.25        | 1.6  |
| 4  | EMCFb 5  | 0.24        | 2.1  |
| 5  | EMCFb 8  | 0.26        | 2.8  |
| 6  | EMCFb 80 | 0.25        | 3.9  |
| 7  | EMCFb 9  | 0.28        | 5.0  |
| 8  | EMCFb 90 | 0.28        | 6.3  |
| 9  | EMCFb 10 | 0.28        | 7.5  |
| 10 | EMCFb 11 | 0.29        | 9.6  |
| 11 | EMCFb 12 | 0.32        | 11.8 |
| 12 | EMCFb 13 | 0.31        | 14.0 |
| 13 | EMCFb 14 | 0.32        | 17.0 |

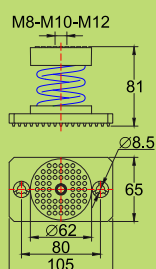
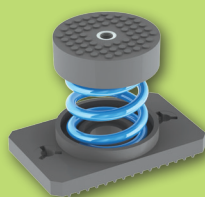
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | EFb 1  | 0.38        | 0.5  |
| 2  | EFb 2  | 0.38        | 1.0  |
| 3  | EFb 4  | 0.39        | 1.6  |
| 4  | EFb 5  | 0.38        | 2.1  |
| 5  | EFb 8  | 0.40        | 2.8  |
| 6  | EFb 80 | 0.39        | 3.9  |
| 7  | EFb 9  | 0.42        | 5.0  |
| 8  | EFb 90 | 0.42        | 6.3  |
| 9  | EFb 10 | 0.42        | 7.5  |
| 10 | EFb 11 | 0.43        | 9.6  |
| 11 | EFb 12 | 0.45        | 11.8 |
| 12 | EFb 13 | 0.45        | 14.0 |
| 13 | EFb 14 | 0.46        | 17.0 |



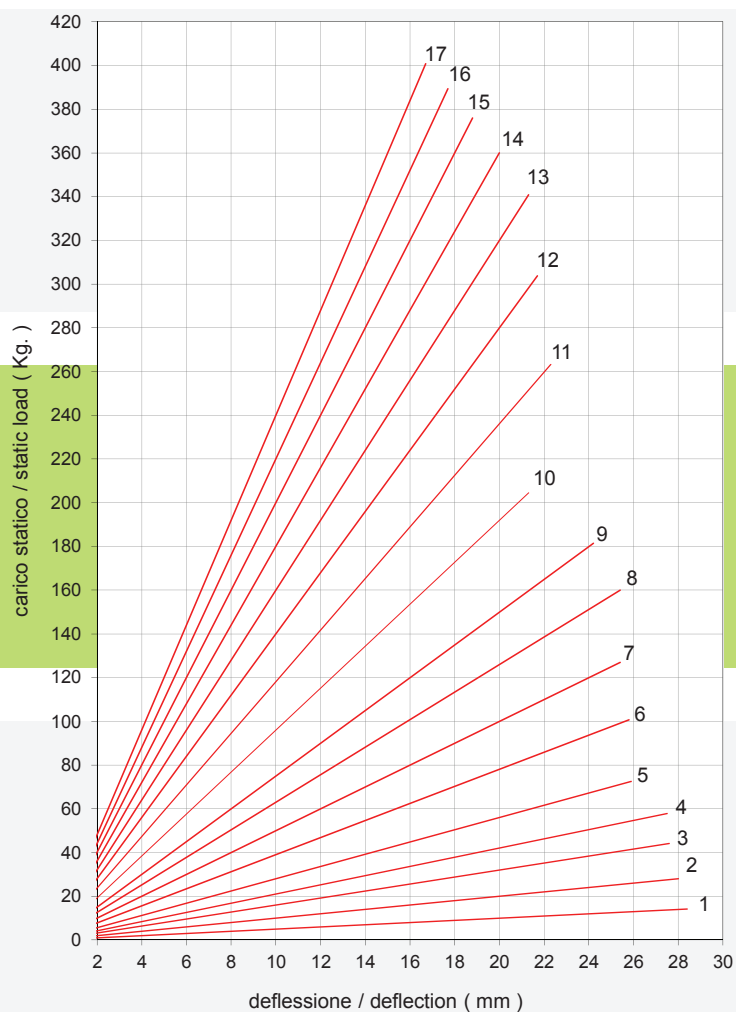
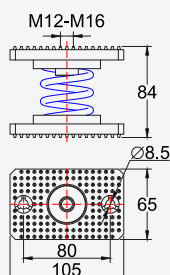
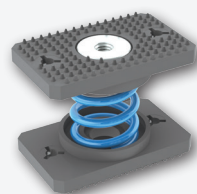
## MCFr



## EMCFr



## EFr

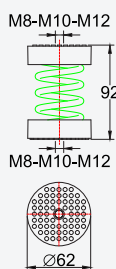


| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | MCFr 1   | 0.16        | 0.5  |
| 2  | MCFr 2   | 0.17        | 1.0  |
| 3  | MCFr 4   | 0.19        | 1.6  |
| 4  | MCFr 5   | 0.19        | 2.1  |
| 5  | MCFr 8   | 0.22        | 2.8  |
| 6  | MCFr 80  | 0.22        | 3.9  |
| 7  | MCFr 9   | 0.24        | 5.0  |
| 8  | MCFr 90  | 0.24        | 6.3  |
| 9  | MCFr 10  | 0.25        | 7.5  |
| 10 | MCFr 11  | 0.27        | 9.6  |
| 11 | MCFr 12  | 0.28        | 11.8 |
| 12 | MCFr 13  | 0.30        | 14.0 |
| 13 | MCFr 130 | 0.31        | 16.0 |
| 14 | MCFr 14  | 0.30        | 18.0 |
| 15 | MCFr 20  | 0.35        | 20.0 |
| 16 | MCFr 22  | 0.35        | 22.0 |
| 17 | MCFr 30  | 0.30        | 24.0 |

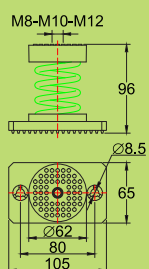
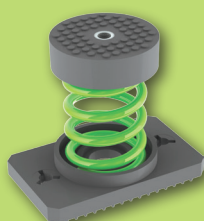
| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | EMCFr 1   | 0.23        | 0.5  |
| 2  | EMCFr 2   | 0.24        | 1.0  |
| 3  | EMCFr 4   | 0.26        | 1.6  |
| 4  | EMCFr 5   | 0.26        | 2.1  |
| 5  | EMCFr 8   | 0.29        | 2.8  |
| 6  | EMCFr 80  | 0.29        | 3.9  |
| 7  | EMCFr 9   | 0.31        | 5.0  |
| 8  | EMCFr 90  | 0.31        | 6.3  |
| 9  | EMCFr 10  | 0.34        | 7.5  |
| 10 | EMCFr 11  | 0.35        | 9.6  |
| 11 | EMCFr 12  | 0.36        | 11.8 |
| 12 | EMCFr 13  | 0.38        | 14.0 |
| 13 | EMCFr 130 | 0.37        | 16.0 |
| 14 | EMCFr 14  | 0.37        | 18.0 |
| 15 | EMCFr 20  | 0.42        | 20.0 |
| 16 | EMCFr 22  | 0.42        | 22.0 |
| 17 | EMCFr 30  | 0.37        | 24.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | EFr 1   | 0.37        | 0.5  |
| 2  | EFr 2   | 0.38        | 1.0  |
| 3  | EFr 4   | 0.40        | 1.6  |
| 4  | EFr 5   | 0.40        | 2.1  |
| 5  | EFr 8   | 0.43        | 2.8  |
| 6  | EFr 80  | 0.42        | 3.9  |
| 7  | EFr 9   | 0.45        | 5.0  |
| 8  | EFr 90  | 0.45        | 6.3  |
| 9  | EFr 10  | 0.46        | 7.5  |
| 10 | EFr 11  | 0.47        | 9.6  |
| 11 | EFr 12  | 0.49        | 11.8 |
| 12 | EFr 13  | 0.50        | 14.0 |
| 13 | EFr 130 | 0.51        | 16.0 |
| 14 | EFr 14  | 0.51        | 18.0 |
| 15 | EFr 20  | 0.56        | 20.0 |
| 16 | EFr 22  | 0.55        | 22.0 |
| 17 | EFr 30  | 0.51        | 24.0 |

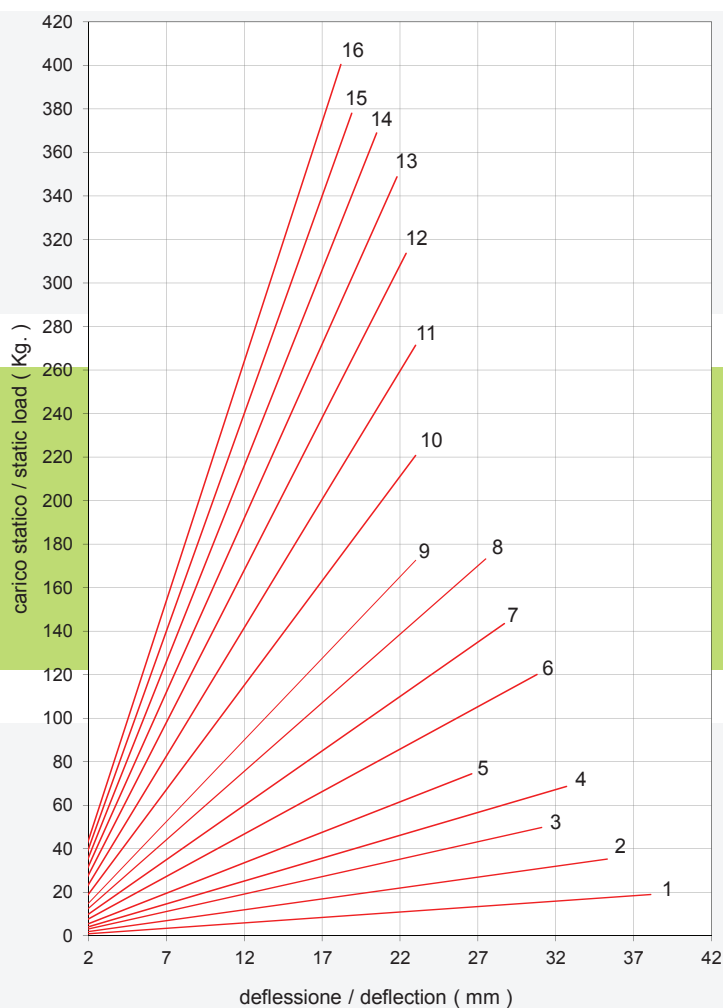
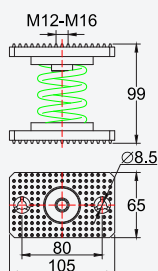
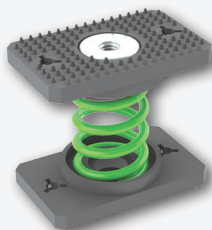
### MCF



### EMCF



### EF

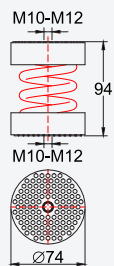


| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MCF 1   | 0.18        | 0.5  |
| 2  | MCF 2   | 0.19        | 1.0  |
| 3  | MCF 4   | 0.22        | 1.6  |
| 4  | MCF 5   | 0.26        | 2.1  |
| 5  | MCF 8   | 0.28        | 2.8  |
| 6  | MCF 80  | 0.28        | 3.9  |
| 7  | MCF 9   | 0.28        | 5.0  |
| 8  | MCF 90  | 0.30        | 6.3  |
| 9  | MCF 10  | 0.37        | 7.5  |
| 10 | MCF 11  | 0.38        | 9.6  |
| 11 | MCF 12  | 0.37        | 11.8 |
| 12 | MCF 13  | 0.41        | 14.0 |
| 13 | MCF 130 | 0.48        | 16.0 |
| 14 | MCF 14  | 0.42        | 18.0 |
| 15 | MCF 20  | 0.50        | 20.0 |
| 16 | MCF 22  | 0.49        | 22.0 |

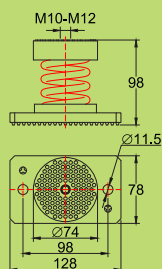
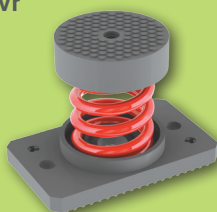
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | EMCF 1   | 0.25        | 0.5  |
| 2  | EMCF 2   | 0.26        | 1.0  |
| 3  | EMCF 4   | 0.29        | 1.6  |
| 4  | EMCF 5   | 0.33        | 2.1  |
| 5  | EMCF 8   | 0.35        | 2.8  |
| 6  | EMCF 80  | 0.35        | 3.9  |
| 7  | EMCF 9   | 0.35        | 5.0  |
| 8  | EMCF 90  | 0.37        | 6.3  |
| 9  | EMCF 10  | 0.44        | 7.5  |
| 10 | EMCF 11  | 0.45        | 9.6  |
| 11 | EMCF 12  | 0.44        | 11.8 |
| 12 | EMCF 13  | 0.48        | 14.0 |
| 13 | EMCF 130 | 0.55        | 16.0 |
| 14 | EMCF 14  | 0.49        | 18.0 |
| 15 | EMCF 20  | 0.57        | 20.0 |
| 16 | EMCF 22  | 0.56        | 22.0 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | EF 1   | 0.39        | 0.5  |
| 2  | EF 2   | 0.40        | 1.0  |
| 3  | EF 4   | 0.43        | 1.6  |
| 4  | EF 5   | 0.46        | 2.1  |
| 5  | EF 8   | 0.49        | 2.8  |
| 6  | EF 80  | 0.49        | 3.9  |
| 7  | EF 9   | 0.49        | 5.0  |
| 8  | EF 90  | 0.51        | 6.3  |
| 9  | EF 10  | 0.58        | 7.5  |
| 10 | EF 11  | 0.59        | 9.6  |
| 11 | EF 12  | 0.58        | 11.8 |
| 12 | EF 13  | 0.62        | 14.0 |
| 13 | EF 130 | 0.68        | 16.0 |
| 14 | EF 14  | 0.63        | 18.0 |
| 15 | EF 20  | 0.71        | 20.0 |
| 16 | EF 22  | 0.70        | 22.0 |

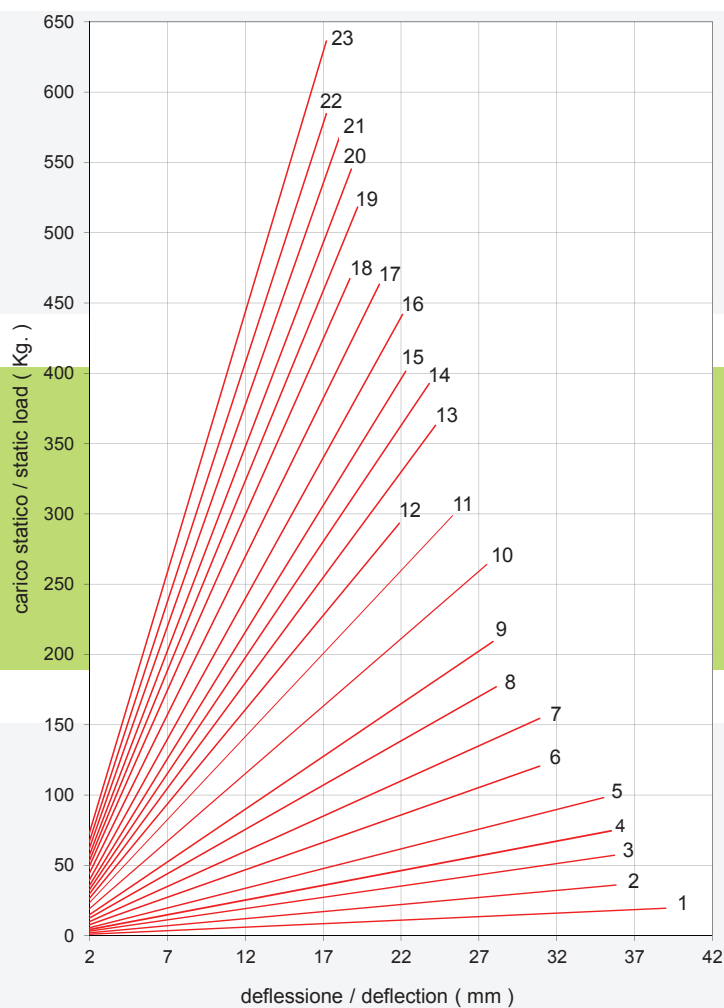
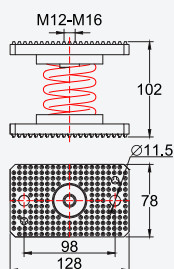
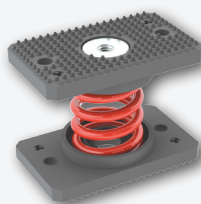
## MCWr - MCVr



## EMCWr - EMCVr



## EWr - EVr



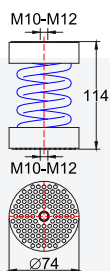
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | MCWr 02  | 0.28        | 0.5  |
| 2  | MCWr 04  | 0.29        | 1.0  |
| 3  | MCWr 05  | 0.30        | 1.6  |
| 4  | MCWr 06  | 0.38        | 2.1  |
| 5  | MCWr 08  | 0.33        | 2.8  |
| 6  | MCWr 09  | 0.36        | 3.9  |
| 7  | MCWr 12  | 0.39        | 5.0  |
| 8  | MCVr 14  | 0.43        | 6.3  |
| 9  | MCVr 20  | 0.45        | 7.5  |
| 10 | MCVr 22  | 0.47        | 9.6  |
| 11 | MCVr 30  | 0.50        | 11.8 |
| 12 | MCVr 300 | 0.52        | 13.4 |
| 13 | MCVr 301 | 0.53        | 15.0 |
| 14 | MCVr 305 | 0.55        | 16.5 |
| 15 | MCVr 31  | 0.57        | 18.0 |
| 16 | MCVr 33  | 0.53        | 20.0 |
| 17 | MCVr 45  | 0.60        | 22.5 |
| 18 | MCVr 47  | 0.64        | 25.0 |
| 19 | MCVr 48  | 0.67        | 27.0 |
| 20 | MCVr 50  | 0.75        | 29.0 |
| 21 | MCVr 501 | 0.72        | 31.5 |
| 22 | MCVr 510 | 0.70        | 34.0 |
| 23 | MCVr 51  | 0.76        | 37.0 |

| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | EMCWr 02  | 0.44        | 0.5  |
| 2  | EMCWr 04  | 0.46        | 1.0  |
| 3  | EMCWr 05  | 0.46        | 1.6  |
| 4  | EMCWr 06  | 0.55        | 2.1  |
| 5  | EMCWr 08  | 0.49        | 2.8  |
| 6  | EMCWr 09  | 0.53        | 3.9  |
| 7  | EMCWr 12  | 0.56        | 5.0  |
| 8  | EMCVr 14  | 0.59        | 6.3  |
| 9  | EMCVr 20  | 0.62        | 7.5  |
| 10 | EMCVr 22  | 0.63        | 9.6  |
| 11 | EMCVr 30  | 0.67        | 11.8 |
| 12 | EMCVr 300 | 0.68        | 13.4 |
| 13 | EMCVr 301 | 0.70        | 15.0 |
| 14 | EMCVr 305 | 0.72        | 16.5 |
| 15 | EMCVr 31  | 0.73        | 18.0 |
| 16 | EMCVr 33  | 0.69        | 20.0 |
| 17 | EMCVr 45  | 0.76        | 22.5 |
| 18 | EMCVr 47  | 0.81        | 25.0 |
| 19 | EMCVr 48  | 0.83        | 27.0 |
| 20 | EMCVr 50  | 0.91        | 29.0 |
| 21 | EMCVr 501 | 0.88        | 31.5 |
| 22 | EMCVr 510 | 0.87        | 34.0 |
| 23 | EMCVr 51  | 0.93        | 37.0 |

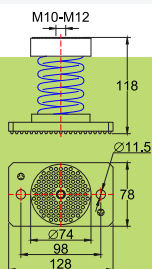
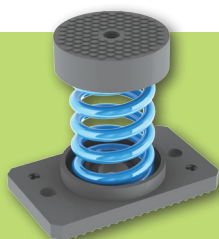
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | EWr 02  | 0.68        | 0.5  |
| 2  | EWr 04  | 0.69        | 1.0  |
| 3  | EWr 05  | 0.70        | 1.6  |
| 4  | EWr 06  | 0.78        | 2.1  |
| 5  | EWr 08  | 0.73        | 2.8  |
| 6  | EWr 09  | 0.76        | 3.9  |
| 7  | EWr 12  | 0.79        | 5.0  |
| 8  | EVr 14  | 0.82        | 6.3  |
| 9  | EVr 20  | 0.85        | 7.5  |
| 10 | EVr 22  | 0.87        | 9.6  |
| 11 | EVr 30  | 0.90        | 11.8 |
| 12 | EVr 300 | 0.91        | 13.4 |
| 13 | EVr 301 | 0.93        | 15.0 |
| 14 | EVr 305 | 0.95        | 16.5 |
| 15 | EVr 31  | 0.96        | 18.0 |
| 16 | EVr 33  | 0.92        | 20.0 |
| 17 | EVr 45  | 1.00        | 22.5 |
| 18 | EVr 47  | 1.04        | 25.0 |
| 19 | EVr 48  | 1.07        | 27.0 |
| 20 | EVr 50  | 1.14        | 29.0 |
| 21 | EVr 501 | 1.11        | 31.5 |
| 22 | EVr 510 | 1.10        | 34.0 |
| 23 | EVr 51  | 1.16        | 37.0 |



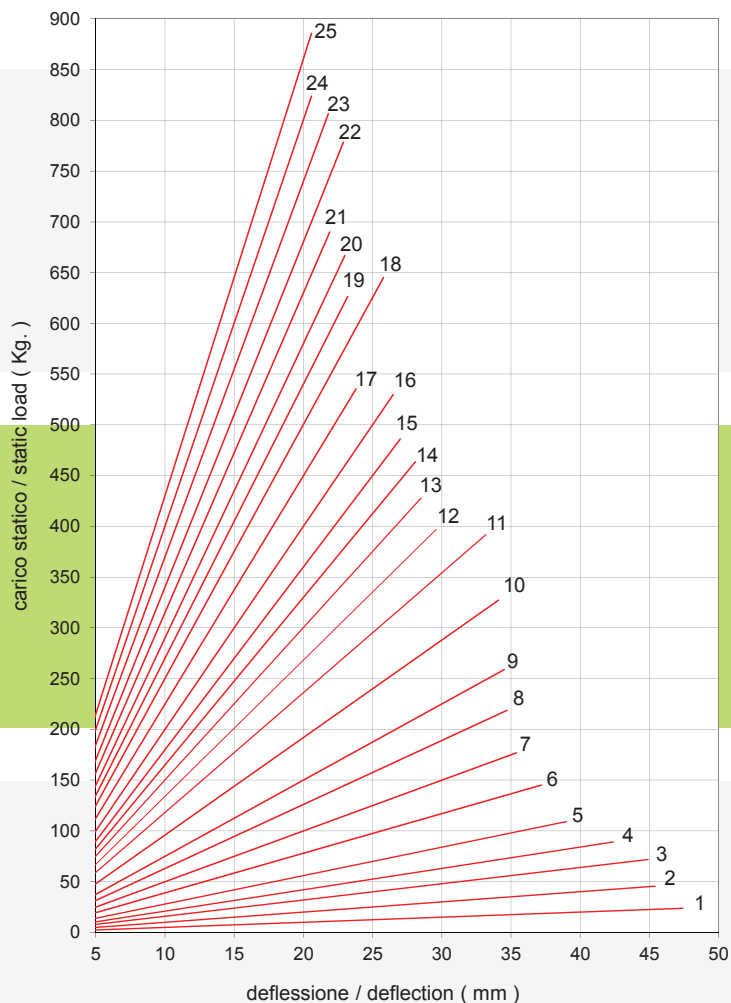
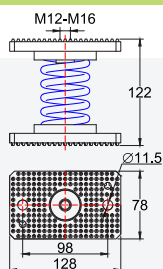
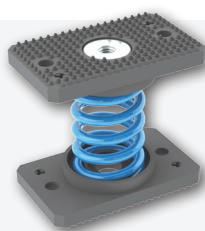
### MCW - MCV



### EMCW - EMCV



### EW - EV



| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MCW 02  | 0.31        | 0.5  |
| 2  | MCW 04  | 0.34        | 1.0  |
| 3  | MCW 05  | 0.36        | 1.6  |
| 4  | MCW 06  | 0.39        | 2.1  |
| 5  | MCW 08  | 0.43        | 2.8  |
| 6  | MCW 09  | 0.47        | 3.9  |
| 7  | MCW 12  | 0.50        | 5.0  |
| 8  | MCV 14  | 0.55        | 6.3  |
| 9  | MCV 20  | 0.54        | 7.5  |
| 10 | MCV 22  | 0.65        | 9.6  |
| 11 | MCV 30  | 0.60        | 11.8 |
| 12 | MCV 300 | 0.66        | 13.4 |
| 13 | MCV 301 | 0.60        | 15.0 |
| 14 | MCV 305 | 0.72        | 16.5 |
| 15 | MCV 31  | 0.67        | 18.0 |
| 16 | MCV 33  | 0.75        | 20.0 |
| 17 | MCV 45  | 0.84        | 22.5 |
| 18 | MCV 47  | 0.86        | 25.0 |
| 19 | MCV 48  | 0.86        | 27.0 |
| 20 | MCV 50  | 0.79        | 29.0 |
| 21 | MCV 501 | 0.96        | 31.5 |
| 22 | MCV 510 | 1.04        | 34.0 |
| 23 | MCV 51  | 1.04        | 37.0 |
| 24 | MCV 53  | 0.84        | 40.0 |
| 25 | MCV 55  | 0.94        | 43.0 |

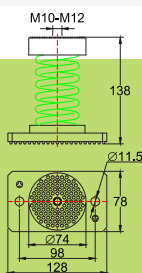
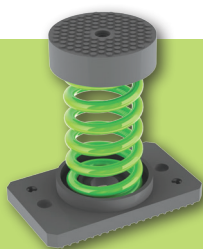
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | EMCW 02  | 0.48        | 0.5  |
| 2  | EMCW 04  | 0.50        | 1.0  |
| 3  | EMCW 05  | 0.52        | 1.6  |
| 4  | EMCW 06  | 0.55        | 2.1  |
| 5  | EMCW 08  | 0.60        | 2.8  |
| 6  | EMCW 09  | 0.64        | 3.9  |
| 7  | EMCW 12  | 0.66        | 5.0  |
| 8  | EMCV 14  | 0.71        | 6.3  |
| 9  | EMCV 20  | 0.71        | 7.5  |
| 10 | EMCV 22  | 0.82        | 9.6  |
| 11 | EMCV 30  | 0.76        | 11.8 |
| 12 | EMCV 300 | 0.82        | 13.4 |
| 13 | EMCV 301 | 0.77        | 15.0 |
| 14 | EMCV 305 | 0.88        | 16.5 |
| 15 | EMCV 31  | 0.83        | 18.0 |
| 16 | EMCV 33  | 0.91        | 20.0 |
| 17 | EMCV 45  | 1.01        | 22.5 |
| 18 | EMCV 47  | 1.02        | 25.0 |
| 19 | EMCV 48  | 1.03        | 27.0 |
| 20 | EMCV 50  | 0.95        | 29.0 |
| 21 | EMCV 501 | 1.12        | 31.5 |
| 22 | EMCV 510 | 1.20        | 34.0 |
| 23 | EMCV 51  | 1.21        | 37.0 |
| 24 | EMCV 53  | 1.01        | 40.0 |
| 25 | EMCV 55  | 1.10        | 43.0 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | EW 02  | 0.71        | 0.5  |
| 2  | EW 04  | 0.73        | 1.0  |
| 3  | EW 05  | 0.76        | 1.6  |
| 4  | EW 06  | 0.79        | 2.1  |
| 5  | EW 08  | 0.83        | 2.8  |
| 6  | EW 09  | 0.87        | 3.9  |
| 7  | EW 12  | 0.89        | 5.0  |
| 8  | EV 14  | 0.94        | 6.3  |
| 9  | EV 20  | 0.94        | 7.5  |
| 10 | EV 22  | 1.05        | 9.6  |
| 11 | EV 30  | 0.99        | 11.8 |
| 12 | EV 300 | 1.05        | 13.4 |
| 13 | EV 301 | 1.00        | 15.0 |
| 14 | EV 305 | 1.12        | 16.5 |
| 15 | EV 31  | 1.06        | 18.0 |
| 16 | EV 33  | 1.15        | 20.0 |
| 17 | EV 45  | 1.24        | 22.5 |
| 18 | EV 47  | 1.25        | 25.0 |
| 19 | EV 48  | 1.26        | 27.0 |
| 20 | EV 50  | 1.19        | 29.0 |
| 21 | EV 501 | 1.35        | 31.5 |
| 22 | EV 510 | 1.43        | 34.0 |
| 23 | EV 51  | 1.44        | 37.0 |
| 24 | EV 53  | 1.24        | 40.0 |
| 25 | EV 55  | 1.34        | 43.0 |

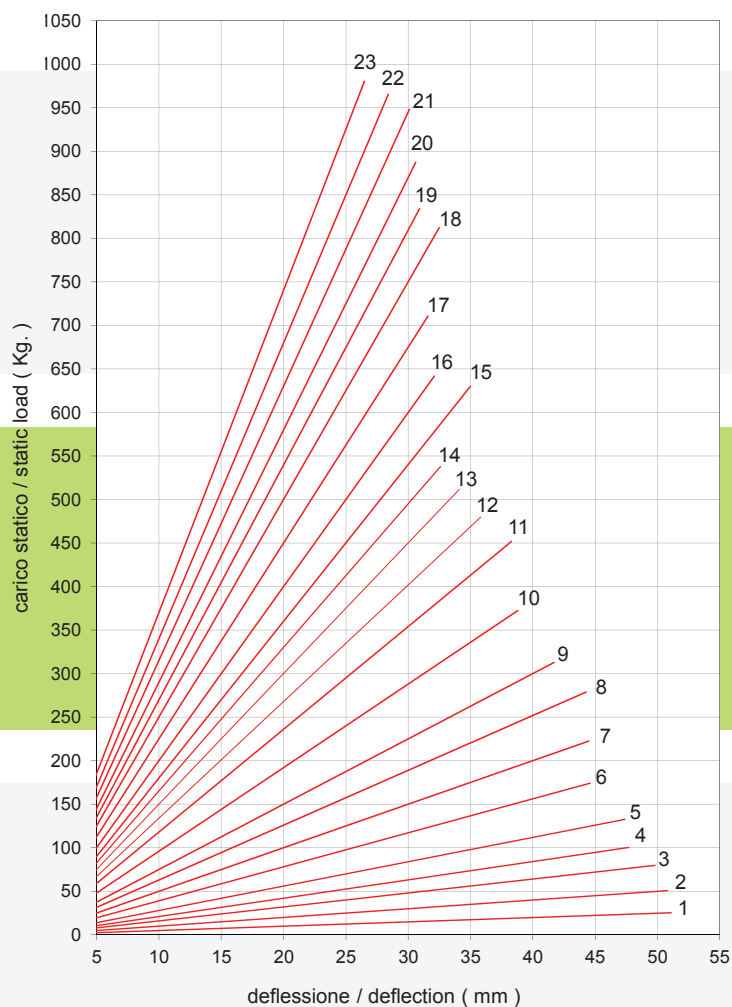
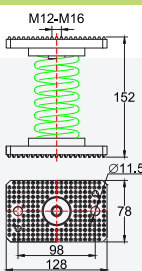
## MCWH - MCVH



## EMCWH - EMCVH



## EWH - EVH

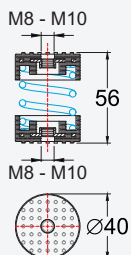


| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | MCWH 02  | 0.40        | 0.5  |
| 2  | MCWH 04  | 0.46        | 1.0  |
| 3  | MCWH 05  | 0.55        | 1.6  |
| 4  | MCWH 06  | 0.55        | 2.1  |
| 5  | MCWH 08  | 0.61        | 2.8  |
| 6  | MCWH 09  | 0.57        | 3.9  |
| 7  | MCWH 12  | 0.61        | 5.0  |
| 8  | MCVH 14  | 0.66        | 6.3  |
| 9  | MCVH 20  | 0.73        | 7.5  |
| 10 | MCVH 22  | 0.80        | 9.6  |
| 11 | MCVH 30  | 0.77        | 11.8 |
| 12 | MCVH 300 | 0.76        | 13.4 |
| 13 | MCVH 301 | 1.06        | 15.0 |
| 14 | MCVH 305 | 0.99        | 16.5 |
| 15 | MCVH 31  | 1.16        | 18.0 |
| 16 | MCVH 33  | 1.06        | 20.0 |
| 17 | MCVH 45  | 1.06        | 22.5 |
| 18 | MCVH 47  | 1.11        | 25.0 |
| 19 | MCVH 48  | 1.21        | 27.0 |
| 20 | MCVH 50  | 1.28        | 29.0 |
| 21 | MCVH 501 | 1.17        | 31.5 |
| 22 | MCVH 510 | 1.27        | 34.0 |
| 23 | MCVH 51  | 1.38        | 37.0 |

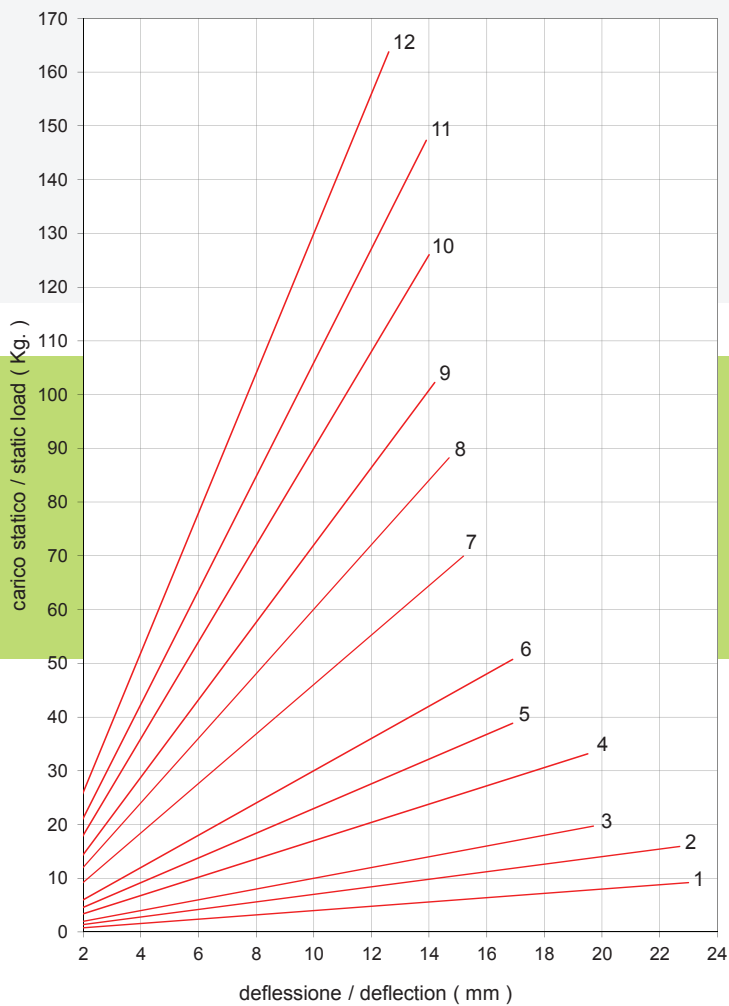
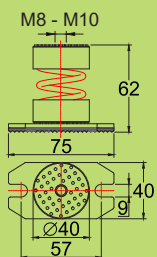
| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | EMCWH 02  | 0.56        | 0.5  |
| 2  | EMCWH 04  | 0.63        | 1.0  |
| 3  | EMCWH 05  | 0.71        | 1.6  |
| 4  | EMCWH 06  | 0.72        | 2.1  |
| 5  | EMCWH 08  | 0.77        | 2.8  |
| 6  | EMCWH 09  | 0.73        | 3.9  |
| 7  | EMCWH 12  | 0.77        | 5.0  |
| 8  | EMCVH 14  | 0.77        | 6.3  |
| 9  | EMCVH 20  | 0.83        | 7.5  |
| 10 | EMCVH 22  | 0.90        | 9.6  |
| 11 | EMCVH 30  | 0.97        | 11.8 |
| 12 | EMCVH 300 | 0.92        | 13.4 |
| 13 | EMCVH 301 | 1.23        | 15.0 |
| 14 | EMCVH 305 | 1.15        | 16.5 |
| 15 | EMCVH 31  | 1.33        | 18.0 |
| 16 | EMCVH 33  | 1.23        | 20.0 |
| 17 | EMCVH 45  | 1.23        | 22.5 |
| 18 | EMCVH 47  | 1.28        | 25.0 |
| 19 | EMCVH 48  | 1.38        | 27.0 |
| 20 | EMCVH 50  | 1.44        | 29.0 |
| 21 | EMCVH 501 | 1.33        | 31.5 |
| 22 | EMCVH 510 | 1.43        | 34.0 |
| 23 | EMCVH 51  | 1.54        | 37.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | EWH 02  | 0.79        | 0.5  |
| 2  | EWH 04  | 0.86        | 1.0  |
| 3  | EWH 05  | 0.94        | 1.6  |
| 4  | EWH 06  | 0.95        | 2.1  |
| 5  | EWH 08  | 1.00        | 2.8  |
| 6  | EWH 09  | 0.96        | 3.9  |
| 7  | EWH 12  | 1.01        | 5.0  |
| 8  | EVH 14  | 1.06        | 6.3  |
| 9  | EVH 20  | 1.13        | 7.5  |
| 10 | EVH 22  | 1.20        | 9.6  |
| 11 | EVH 30  | 1.17        | 11.8 |
| 12 | EVH 300 | 1.15        | 13.4 |
| 13 | EVH 301 | 1.46        | 15.0 |
| 14 | EVH 305 | 1.38        | 16.5 |
| 15 | EVH 31  | 1.56        | 18.0 |
| 16 | EVH 33  | 1.46        | 20.0 |
| 17 | EVH 45  | 1.46        | 22.5 |
| 18 | EVH 47  | 1.51        | 25.0 |
| 19 | EVH 48  | 1.61        | 27.0 |
| 20 | EVH 50  | 1.67        | 29.0 |
| 21 | EVH 501 | 1.57        | 31.5 |
| 22 | EVH 510 | 1.66        | 34.0 |
| 23 | EVH 51  | 1.77        | 37.0 |

### MNZb - MNXb



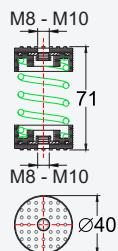
### PMNZb - PMNXb



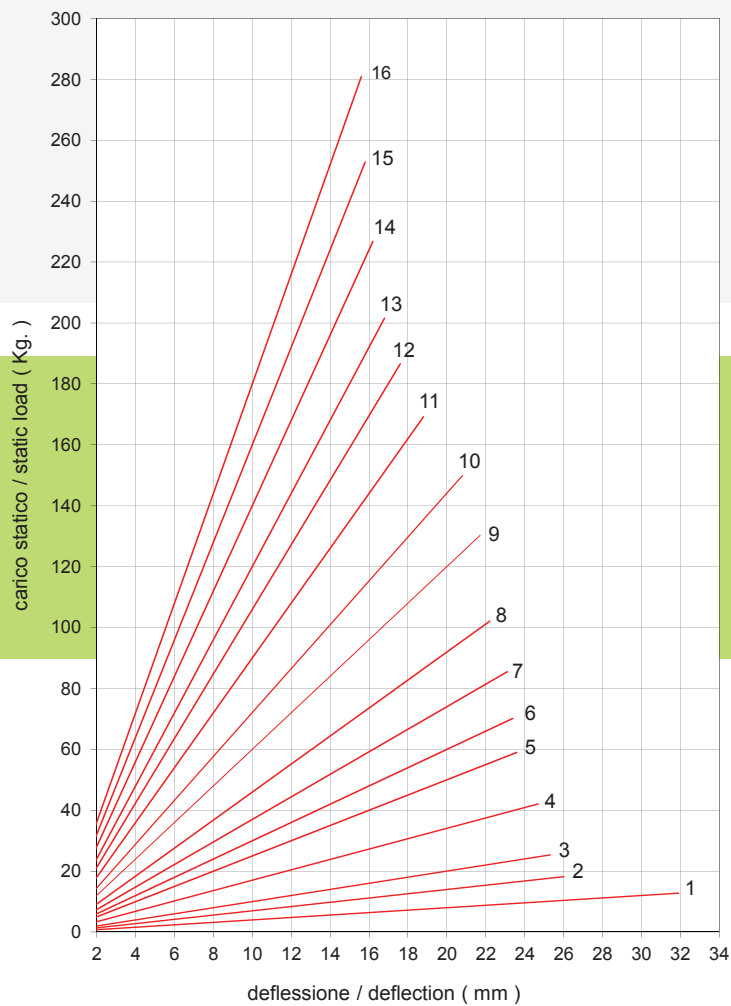
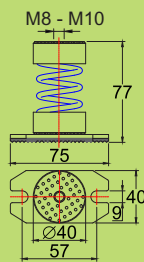
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | MNZb 0   | 0.08        | 0.4  |
| 2  | MNZb 1   | 0.08        | 0.7  |
| 3  | MNZb 2   | 0.09        | 1.0  |
| 4  | MNZb 3   | 0.09        | 1.7  |
| 5  | MNZb 4   | 0.10        | 2.3  |
| 6  | MNZb 5   | 0.10        | 3.0  |
| 7  | MNZb 8   | 0.11        | 4.6  |
| 8  | MNXb 10  | 0.11        | 6.0  |
| 9  | MNXb 101 | 0.12        | 7.2  |
| 10 | MNXb 11  | 0.15        | 9.0  |
| 11 | MNXb 12  | 0.13        | 10.6 |
| 12 | MNXb 13  | 0.14        | 13.0 |

| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | PMNZb 0   | 0.14        | 0.4  |
| 2  | PMNZb 1   | 0.14        | 0.7  |
| 3  | PMNZb 2   | 0.15        | 1.0  |
| 4  | PMNZb 3   | 0.15        | 1.7  |
| 5  | PMNZb 4   | 0.16        | 2.3  |
| 6  | PMNZb 5   | 0.16        | 3.0  |
| 7  | PMNZb 8   | 0.18        | 4.6  |
| 8  | PMNXb 10  | 0.17        | 6.0  |
| 9  | PMNXb 101 | 0.18        | 7.2  |
| 10 | PMNXb 11  | 0.21        | 9.0  |
| 11 | PMNXb 12  | 0.19        | 10.6 |
| 12 | PMNXb 13  | 0.20        | 13.0 |

MNZr - MNXr



PMNZr - PMNXr

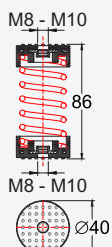


| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MNZr 0  | 0.09        | 0.4  |
| 2  | MNZr 1  | 0.10        | 0.7  |
| 3  | MNZr 2  | 0.10        | 1.0  |
| 4  | MNZr 3  | 0.11        | 1.7  |
| 5  | MNXr 1  | 0.12        | 2.5  |
| 6  | MNZr 5  | 0.12        | 3.0  |
| 7  | MNXr 2  | 0.13        | 3.7  |
| 8  | MNZr 8  | 0.13        | 4.6  |
| 9  | MNXr 3  | 0.13        | 6.0  |
| 10 | MNZr 12 | 0.15        | 7.2  |
| 11 | MNXr 4  | 0.16        | 9.0  |
| 12 | MNZr 20 | 0.15        | 10.6 |
| 13 | MNXr 7  | 0.16        | 12.0 |
| 14 | MNZr 22 | 0.17        | 14.0 |
| 15 | MNZr 24 | 0.18        | 16.0 |
| 16 | MNXr 8  | 0.19        | 18.0 |

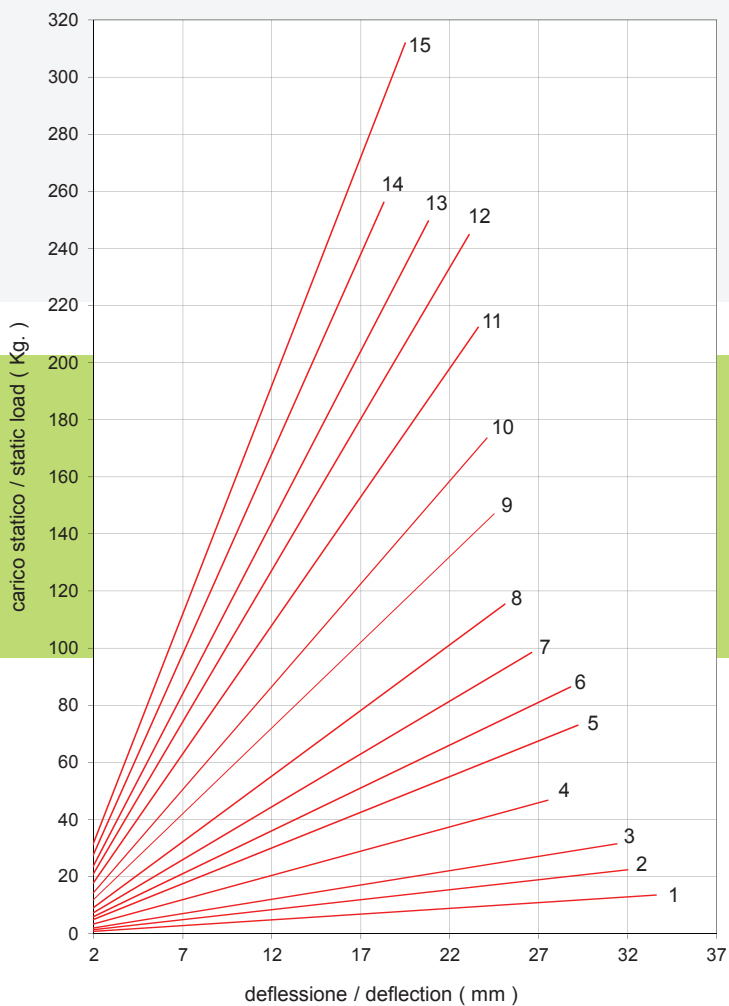
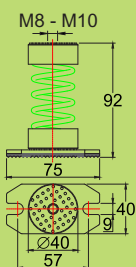
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | PMNZr 0  | 0.15        | 0.4  |
| 2  | PMNZr 1  | 0.16        | 0.7  |
| 3  | PMNZr 2  | 0.16        | 1.0  |
| 4  | PMNZr 3  | 0.17        | 1.7  |
| 5  | PMNXr 1  | 0.18        | 2.5  |
| 6  | PMNZr 5  | 0.18        | 3.0  |
| 7  | PMNXr 2  | 0.19        | 3.7  |
| 8  | PMNZr 8  | 0.19        | 4.6  |
| 9  | PMNXr 3  | 0.20        | 6.0  |
| 10 | PMNZr 12 | 0.21        | 7.2  |
| 11 | PMNXr 4  | 0.22        | 9.0  |
| 12 | PMNZr 20 | 0.21        | 10.6 |
| 13 | PMNXr 7  | 0.22        | 12.0 |
| 14 | PMNZr 22 | 0.23        | 14.0 |
| 15 | PMNZr 24 | 0.24        | 16.0 |
| 16 | PMNXr 8  | 0.24        | 18.0 |



### MNZ - MNX



### PMNZ - PMNX



| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | MNZ 0  | 0.11        | 0.4  |
| 2  | MNZ 1  | 0.11        | 0.7  |
| 3  | MNZ 2  | 0.11        | 1.0  |
| 4  | MNZ 3  | 0.15        | 1.7  |
| 5  | MNX 1  | 0.15        | 2.5  |
| 6  | MNZ 5  | 0.14        | 3.0  |
| 7  | MNX 2  | 0.16        | 3.7  |
| 8  | MNZ 8  | 0.16        | 4.6  |
| 9  | MNX 3  | 0.17        | 6.0  |
| 10 | MNZ 12 | 0.18        | 7.2  |
| 11 | MNX 4  | 0.20        | 9.0  |
| 12 | MNZ 20 | 0.20        | 10.6 |
| 13 | MNX 7  | 0.22        | 12.0 |
| 14 | MNZ 22 | 0.23        | 14.0 |
| 15 | MNZ 24 | 0.21        | 16.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | PMNZ 0  | 0.17        | 0.4  |
| 2  | PMNZ 1  | 0.17        | 0.7  |
| 3  | PMNZ 2  | 0.17        | 1.0  |
| 4  | PMNZ 3  | 0.21        | 1.7  |
| 5  | PMNX 1  | 0.21        | 2.5  |
| 6  | PMNZ 5  | 0.21        | 3.0  |
| 7  | PMNX 2  | 0.22        | 3.7  |
| 8  | PMNZ 8  | 0.22        | 4.6  |
| 9  | PMNX 3  | 0.23        | 6.0  |
| 10 | PMNZ 12 | 0.24        | 7.2  |
| 11 | PMNX 4  | 0.26        | 9.0  |
| 12 | PMNZ 20 | 0.26        | 10.6 |
| 13 | PMNX 7  | 0.28        | 12.0 |
| 14 | PMNZ 22 | 0.29        | 14.0 |
| 15 | PMNZ 24 | 0.27        | 16.0 |

# **SERIE MS – MCS – EMCS – ES – M – P**

## **MS – MCS – EMCS – ES – M – P SERIES**



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.

## CARATTERISTICHE COSTRUTTIVE

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Placca base e placca superiore formate da una piastra o disco in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, rivestiti in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detergenti e ai raggi UV.
- Dischi sagomati in acciaio disco in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, bloccano la molla alle placche tramite bussole filettate.
- La superficie delle placche presenta rilievi deformabili che consentono all'antivibrante caricato di stazionare per attrito e allo stesso tempo riducono la trasmissione di rumori.

## A RICHIESTA

- Verniciatura della molla a polvere poliestere, colori secondo nostra tabella RAL.

## MANUFACTURING CHARACTERISTICS

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cataphoretic treatment.
- Base plate and upper plate formed by a plate or disc in UNI EN 10111 DD13 steel, galvanized according to UNI ISO 2081 Fe/Zn 12c1A, coated in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents and to UV rays.
- Shaped steel discs UNI EN 10111 DD13 steel disc, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, lock the spring to the plates by means of threaded bushes.
- The surface of the plates has deformable reliefs that allow the loaded anti-vibration mount to be stationary by friction and at the same time reduce the transmission of noise.

## ON REQUEST

- Polyester powder coating of the spring, colors according to our RAL chart.

## MOLLA BLOCCATA MECCANICAMENTE

Antivibranti dotati di dischi sagomati in acciaio zincato che bloccano la molla alle placche.

## SPRING MECHANICALLY LOCKED

Mounts provided with shaped disks in galvanized steel that block the spring to the plates.

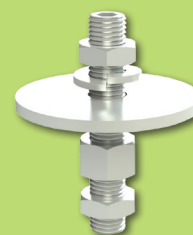


## ACCESSORI

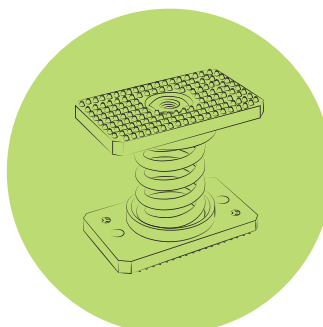
Martinetto, in acciaio zincato o inox AISI 316, per la registrazione della quota macchina.

## ACCESSORIES

Jack in galvanized steel or in stainless steel AISI 316, to facilitate the registration of the machine level.



| CODE          | DESCRIPTION | SUITABLE FOR SERIES      |
|---------------|-------------|--------------------------|
| 0000MRM8/0000 | jack M8     | M - P                    |
| 0000MRM10/000 | jack M10    | MS - MCS - P             |
| 0000MRM12/000 | jack M12    | MS - MCS - EMCS - ES - P |
| 0000MRM16/000 | jack M16    | MCS - EMCS - ES - P      |





### **SERIE MS - MCS**

#### **ANCORAGGIO CON VITI**

Le placche sono dotate di bussole filettate M10 o M12 (MSF) e M12 o M16 (MCSW/V) per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra.

### **MS - MCS SERIES**

#### **ANCHORING WITH SCREWS**

The plates are equipped with M10 or M12 (MSF) and M12 or M16 (MCSW/V) threaded bushes for anchoring the anti-vibration mount to the machine base and/or to the ground.



### **SERIE EMCS**

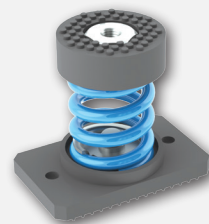
#### **ANCORAGGIO A TERRA CON PLACCA BASE**

La placca superiore è dotata di bussola filettata M10 o M12 (EMCSF) e M12 o M16 (EMCSW/V) per l'ancoraggio dell'antivibrante al basamento della macchina. La placca base è dotata di 2 fori ai lati per l'ancoraggio dell'antivibrante verso terra.

### **EMCS SERIES**

#### **GROUND ANCHORING WITH BASE PLATE**

The upper plate is equipped with a threaded bush M10 or M12 (EMCSF) and M12 or M16 (EMCSW/V) for anchoring the anti-vibration mount to the machine base. The base plate has 2 holes on the sides for anchoring the anti-vibration mount to the ground.



### **SERIE ES**

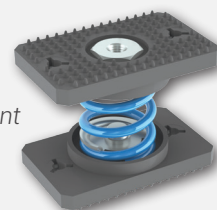
#### **ANCORAGGIO A TERRA E ALLA MACCHINA**

La placca superiore è dotata di bussola filettata M12 o M16 per l'ancoraggio dell'antivibrante al basamento della macchina. La placca base è dotata di 2 fori ai lati per l'ancoraggio dell'antivibrante verso terra.

### **ES SERIES**

#### **GROUND AND MACHINE ANCHORING**

The upper plate is equipped with an M12 or M16 threaded bush for anchoring the anti-vibration mount to the machine base. The base plate has 2 holes on the sides for anchoring the anti-vibration mount to the ground.



### **SERIE M**

#### **ANCORAGGIO CON VITI**

Le placche sono dotate di bussole filettate M8 per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra.

### **M SERIES**

#### **ANCHORING WITH SCREWS**

The plates are equipped with M8 threaded sleeves for anchoring the anti-vibration mount to the base of the machine and/or to the ground.



### **SERIE P**

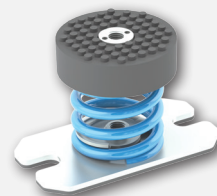
#### **ANCORAGGIO A TERRA CON PIASTRA BASE**

Placca superiore formata da un disco in acciaio UNI EN 10111 DD13, zincato secondo UNI ISO 2081 Fe/Zn 12c1A, rivestito in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detergenti e ai raggi UV. La placca superiore è dotata di bussola filettata M8, M10 o M12 (PF) e M12 o M16 (PW/V) per l'ancoraggio dell'antivibrante al basamento della macchina. Piastra base in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, con 2 sedi per l'ancoraggio dell'antivibrante verso terra. Cuscinetto in gomma, applicato alla base, presenta rilievi deformabili antiscivolo che consentono all'antivibrante caricato di stazionare per attrito.

### **P SERIES**

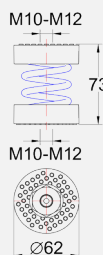
#### **GROUND ANCHORING WITH BASE PLATE**

Upper plate formed by a UNI EN 10111 DD13 steel disc, galvanized according to UNI ISO 2081 Fe/Zn 12c1A, coated in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents and UV rays. The upper plate is equipped with an M8, M10 or M12 (PF) and M12 or M16 (PW/V) threaded bush for anchoring the anti-vibration mount to the machine base. Base plate in UNI EN 10111 DD13 steel, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, with 2 seats for anchoring the anti-vibration mount to the ground. Rubber pad, applied to the base, has non-slip deformable reliefs that allow the loaded anti-vibration mount to be stationary by friction.

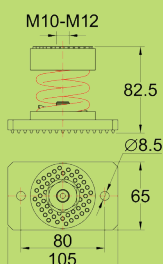
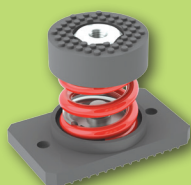




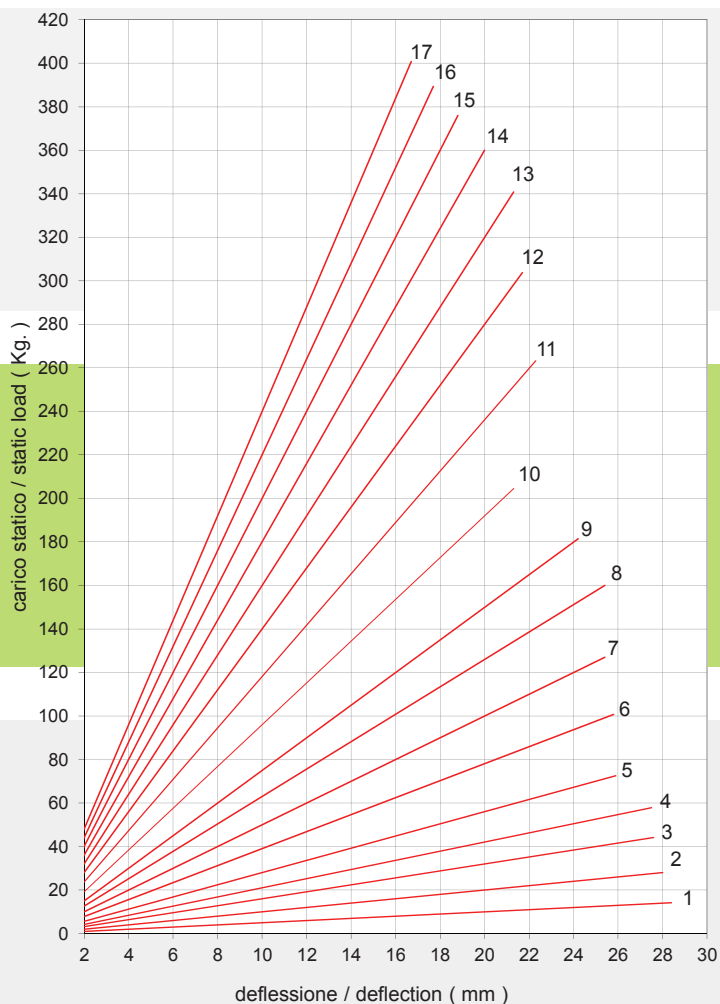
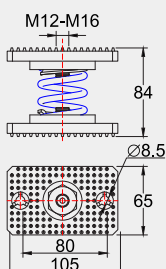
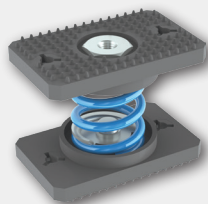
### MSFr



### EMCSFr



### ESFr

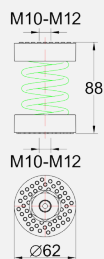


| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | MSFr 1   | 0.28        | 0.5  |
| 2  | MSFr 2   | 0.30        | 1.0  |
| 3  | MSFr 4   | 0.31        | 1.6  |
| 4  | MSFr 5   | 0.31        | 2.1  |
| 5  | MSFr 8   | 0.34        | 2.8  |
| 6  | MSFr 80  | 0.34        | 3.9  |
| 7  | MSFr 9   | 0.36        | 5.0  |
| 8  | MSFr 90  | 0.37        | 6.3  |
| 9  | MSFr 10  | 0.37        | 7.5  |
| 10 | MSFr 11  | 0.39        | 9.6  |
| 11 | MSFr 12  | 0.40        | 11.8 |
| 12 | MSFr 13  | 0.42        | 14.0 |
| 13 | MSFr 130 | 0.43        | 16.0 |
| 14 | MSFr 14  | 0.45        | 18.0 |
| 15 | MSFr 20  | 0.46        | 20.0 |
| 16 | MSFr 22  | 0.47        | 22.0 |
| 17 | MSFr 30  | 0.43        | 24.0 |

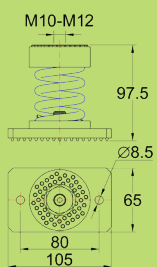
| N. | MODEL      | WEIGHT (kg) | k    |
|----|------------|-------------|------|
| 1  | EMCSFr 1   | 0.34        | 0.5  |
| 2  | EMCSFr 2   | 0.36        | 1.0  |
| 3  | EMCSFr 4   | 0.37        | 1.6  |
| 4  | EMCSFr 5   | 0.37        | 2.1  |
| 5  | EMCSFr 8   | 0.40        | 2.8  |
| 6  | EMCSFr 80  | 0.40        | 3.9  |
| 7  | EMCSFr 9   | 0.42        | 5.0  |
| 8  | EMCSFr 90  | 0.42        | 6.3  |
| 9  | EMCSFr 10  | 0.43        | 7.5  |
| 10 | EMCSFr 11  | 0.45        | 9.6  |
| 11 | EMCSFr 12  | 0.46        | 11.8 |
| 12 | EMCSFr 13  | 0.47        | 14.0 |
| 13 | EMCSFr 130 | 0.49        | 16.0 |
| 14 | EMCSFr 14  | 0.51        | 18.0 |
| 15 | EMCSFr 20  | 0.52        | 20.0 |
| 16 | EMCSFr 22  | 0.52        | 22.0 |
| 17 | EMCSFr 30  | 0.48        | 24.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | ESFr 1   | 0.45        | 0.5  |
| 2  | ESFr 2   | 0.47        | 1.0  |
| 3  | ESFr 4   | 0.48        | 1.6  |
| 4  | ESFr 5   | 0.48        | 2.1  |
| 5  | ESFr 8   | 0.51        | 2.8  |
| 6  | ESFr 80  | 0.51        | 3.9  |
| 7  | ESFr 9   | 0.53        | 5.0  |
| 8  | ESFr 90  | 0.53        | 6.3  |
| 9  | ESFr 10  | 0.54        | 7.5  |
| 10 | ESFr 11  | 0.56        | 9.6  |
| 11 | ESFr 12  | 0.57        | 11.8 |
| 12 | ESFr 13  | 0.58        | 14.0 |
| 13 | ESFr 130 | 0.60        | 16.0 |
| 14 | ESFr 14  | 0.59        | 18.0 |
| 15 | ESFr 20  | 0.64        | 20.0 |
| 16 | ESFr 22  | 0.64        | 22.0 |
| 17 | ESFr 30  | 0.59        | 24.0 |

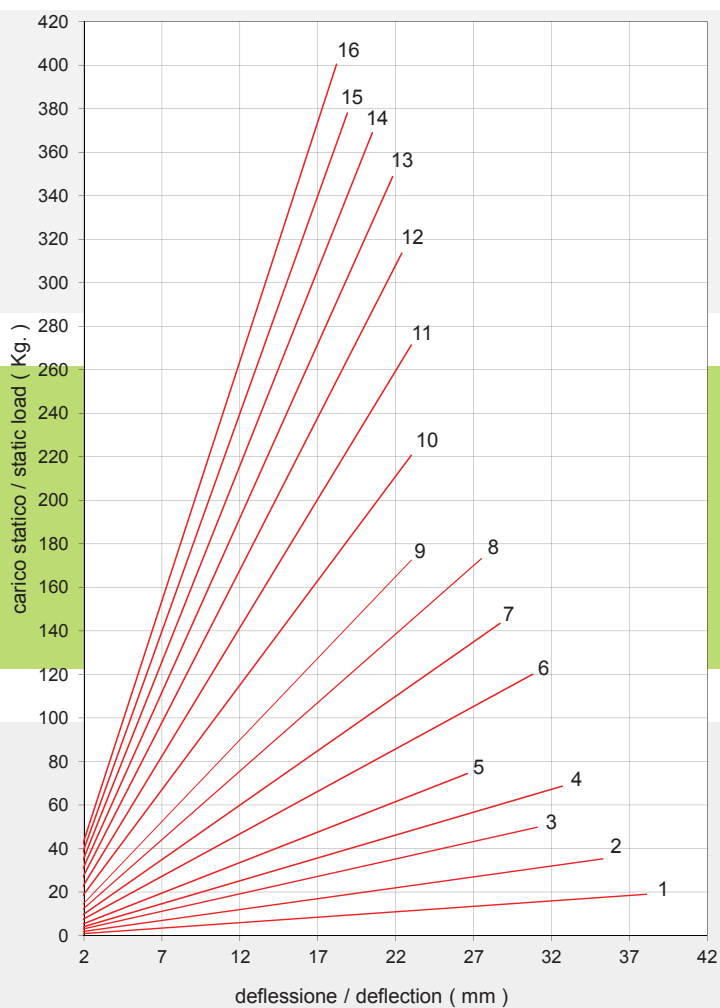
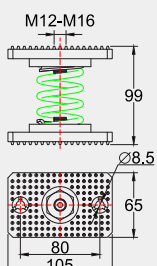
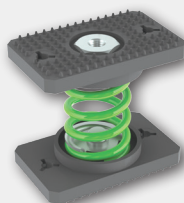
## MSF



## EMCSF



## ESF

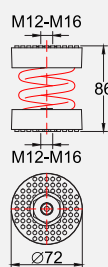


| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MSF 1   | 0.31        | 0.5  |
| 2  | MSF 2   | 0.32        | 1.0  |
| 3  | MSF 4   | 0.35        | 1.6  |
| 4  | MSF 5   | 0.35        | 2.1  |
| 5  | MSF 8   | 0.41        | 2.8  |
| 6  | MSF 80  | 0.38        | 3.9  |
| 7  | MSF 9   | 0.41        | 5.0  |
| 8  | MSF 90  | 0.42        | 6.3  |
| 9  | MSF 10  | 0.49        | 7.5  |
| 10 | MSF 11  | 0.49        | 9.6  |
| 11 | MSF 12  | 0.49        | 11.8 |
| 12 | MSF 13  | 0.52        | 14.0 |
| 13 | MSF 130 | 0.60        | 16.0 |
| 14 | MSF 14  | 0.57        | 18.0 |
| 15 | MSF 20  | 0.62        | 20.0 |
| 16 | MSF 22  | 0.61        | 22.0 |

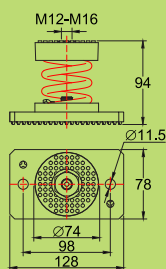
| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | EMCSF 1   | 0.37        | 0.5  |
| 2  | EMCSF 2   | 0.37        | 1.0  |
| 3  | EMCSF 4   | 0.40        | 1.6  |
| 4  | EMCSF 5   | 0.40        | 2.1  |
| 5  | EMCSF 8   | 0.47        | 2.8  |
| 6  | EMCSF 80  | 0.44        | 3.9  |
| 7  | EMCSF 9   | 0.47        | 5.0  |
| 8  | EMCSF 90  | 0.48        | 6.3  |
| 9  | EMCSF 10  | 0.54        | 7.5  |
| 10 | EMCSF 11  | 0.55        | 9.6  |
| 11 | EMCSF 12  | 0.55        | 11.8 |
| 12 | EMCSF 13  | 0.58        | 14.0 |
| 13 | EMCSF 130 | 0.66        | 16.0 |
| 14 | EMCSF 14  | 0.62        | 18.0 |
| 15 | EMCSF 20  | 0.68        | 20.0 |
| 16 | EMCSF 22  | 0.66        | 22.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | ESF 1   | 0.47        | 0.5  |
| 2  | ESF 2   | 0.48        | 1.0  |
| 3  | ESF 4   | 0.52        | 1.6  |
| 4  | ESF 5   | 0.55        | 2.1  |
| 5  | ESF 8   | 0.57        | 2.8  |
| 6  | ESF 80  | 0.58        | 3.9  |
| 7  | ESF 9   | 0.57        | 5.0  |
| 8  | ESF 90  | 0.59        | 6.3  |
| 9  | ESF 10  | 0.66        | 7.5  |
| 10 | ESF 11  | 0.67        | 9.6  |
| 11 | ESF 12  | 0.67        | 11.8 |
| 12 | ESF 13  | 0.71        | 14.0 |
| 13 | ESF 130 | 0.77        | 16.0 |
| 14 | ESF 14  | 0.71        | 18.0 |
| 15 | ESF 20  | 0.79        | 20.0 |
| 16 | ESF 22  | 0.78        | 22.0 |

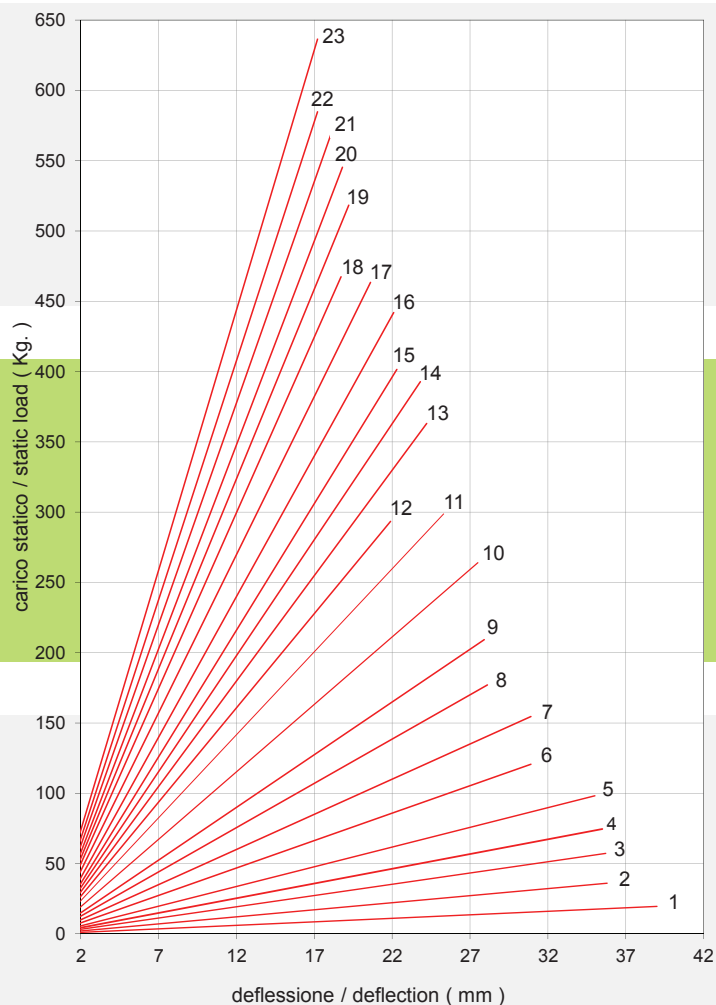
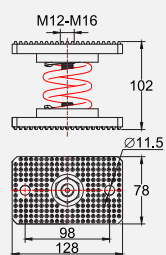
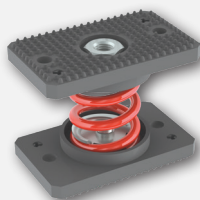
### MCSWr - MCSVr



### EMCSWr - EMCSVr



### ESWr - ESVr

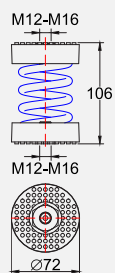


| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | MCSWr 02  | 0.41        | 0.5  |
| 2  | MCSWr 04  | 0.41        | 1.0  |
| 3  | MCSWr 05  | 0.44        | 1.6  |
| 4  | MCSWr 06  | 0.47        | 2.1  |
| 5  | MCSWr 08  | 0.47        | 2.8  |
| 6  | MCSWr 09  | 0.52        | 3.9  |
| 7  | MCSWr 12  | 0.52        | 5.0  |
| 8  | MCSVr 14  | 0.55        | 6.3  |
| 9  | MCSVr 20  | 0.56        | 7.5  |
| 10 | MCSVr 22  | 0.60        | 9.6  |
| 11 | MCSVr 30  | 0.64        | 11.8 |
| 12 | MCSVr 300 | 0.69        | 13.4 |
| 13 | MCSVr 301 | 0.67        | 15.0 |
| 14 | MCSVr 305 | 0.65        | 16.5 |
| 15 | MCSVr 31  | 0.70        | 18.0 |
| 16 | MCSVr 33  | 0.68        | 20.0 |
| 17 | MCSVr 45  | 0.75        | 22.5 |
| 18 | MCSVr 47  | 0.81        | 25.0 |
| 19 | MCSVr 48  | 0.78        | 27.0 |
| 20 | MCSVr 50  | 0.83        | 29.0 |
| 21 | MCSVr 501 | 0.79        | 31.5 |
| 22 | MCSVr 510 | 0.83        | 34.0 |
| 23 | MCSVr 51  | 0.88        | 37.0 |

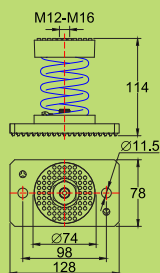
| N. | MODEL      | WEIGHT (kg) | k    |
|----|------------|-------------|------|
| 1  | EMCSWr 02  | 0.54        | 0.5  |
| 2  | EMCSWr 04  | 0.54        | 1.0  |
| 3  | EMCSWr 05  | 0.56        | 1.6  |
| 4  | EMCSWr 06  | 0.59        | 2.1  |
| 5  | EMCSWr 08  | 0.59        | 2.8  |
| 6  | EMCSWr 09  | 0.64        | 3.9  |
| 7  | EMCSWr 12  | 0.64        | 5.0  |
| 8  | EMCSVr 14  | 0.68        | 6.3  |
| 9  | EMCSVr 20  | 0.68        | 7.5  |
| 10 | EMCSVr 22  | 0.73        | 9.6  |
| 11 | EMCSVr 30  | 0.76        | 11.8 |
| 12 | EMCSVr 300 | 0.82        | 13.4 |
| 13 | EMCSVr 301 | 0.80        | 15.0 |
| 14 | EMCSVr 305 | 0.77        | 16.5 |
| 15 | EMCSVr 31  | 0.82        | 18.0 |
| 16 | EMCSVr 33  | 0.80        | 20.0 |
| 17 | EMCSVr 45  | 0.87        | 22.5 |
| 18 | EMCSVr 47  | 0.94        | 25.0 |
| 19 | EMCSVr 48  | 0.91        | 27.0 |
| 20 | EMCSVr 50  | 0.96        | 29.0 |
| 21 | EMCSVr 501 | 0.92        | 31.5 |
| 22 | EMCSVr 510 | 0.95        | 34.0 |
| 23 | EMCSVr 51  | 1.00        | 37.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | ESWr 02  | 0.77        | 0.5  |
| 2  | ESWr 04  | 0.78        | 1.0  |
| 3  | ESWr 05  | 0.79        | 1.6  |
| 4  | ESWr 06  | 0.87        | 2.1  |
| 5  | ESWr 08  | 0.82        | 2.8  |
| 6  | ESWr 09  | 0.85        | 3.9  |
| 7  | ESWr 12  | 0.88        | 5.0  |
| 8  | ESVr 14  | 0.91        | 6.3  |
| 9  | ESVr 20  | 0.94        | 7.5  |
| 10 | ESVr 22  | 0.96        | 9.6  |
| 11 | ESVr 30  | 0.99        | 11.8 |
| 12 | ESVr 300 | 1.00        | 13.4 |
| 13 | ESVr 301 | 1.02        | 15.0 |
| 14 | ESVr 305 | 1.04        | 16.5 |
| 15 | ESVr 31  | 1.05        | 18.0 |
| 16 | ESVr 33  | 1.01        | 20.0 |
| 17 | ESVr 45  | 1.09        | 22.5 |
| 18 | ESVr 47  | 1.13        | 25.0 |
| 19 | ESVr 48  | 1.15        | 27.0 |
| 20 | ESVr 50  | 1.23        | 29.0 |
| 21 | ESVr 501 | 1.20        | 31.5 |
| 22 | ESVr 510 | 1.19        | 34.0 |
| 23 | ESVr 51  | 1.25        | 37.0 |

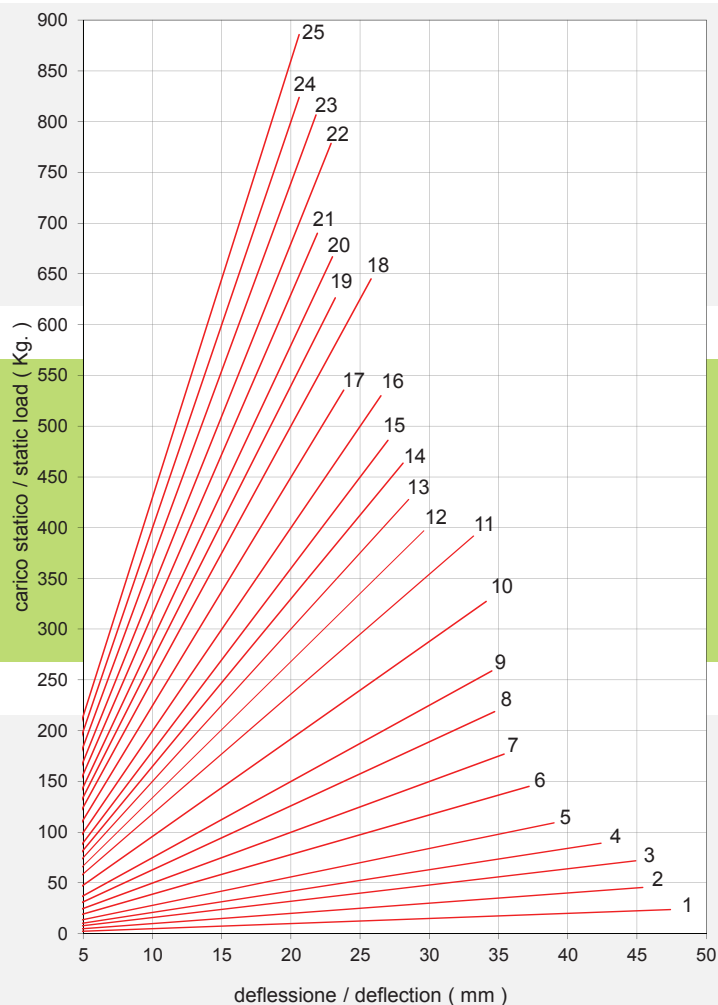
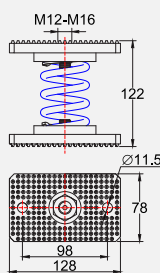
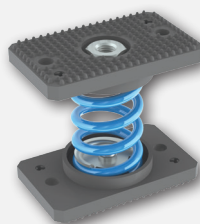
## MCSW - MCSV



## EMCSW - EMCSV



## ESW - ESV



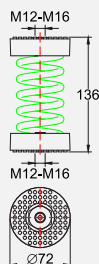
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | MCSW 02  | 0.44        | 0.5  |
| 2  | MCSW 04  | 0.47        | 1.0  |
| 3  | MCSW 05  | 0.49        | 1.6  |
| 4  | MCSW 06  | 0.53        | 2.1  |
| 5  | MCSW 08  | 0.56        | 2.8  |
| 6  | MCSW 09  | 0.59        | 3.9  |
| 7  | MCSW 12  | 0.63        | 5.0  |
| 8  | MCSV 14  | 0.67        | 6.3  |
| 9  | MCSV 20  | 0.67        | 7.5  |
| 10 | MCSV 22  | 0.78        | 9.6  |
| 11 | MCSV 30  | 0.72        | 11.8 |
| 12 | MCSV 300 | 0.79        | 13.4 |
| 13 | MCSV 301 | 0.82        | 15.0 |
| 14 | MCSV 305 | 0.85        | 16.5 |
| 15 | MCSV 31  | 0.86        | 18.0 |
| 16 | MCSV 33  | 0.88        | 20.0 |
| 17 | MCSV 45  | 0.93        | 22.5 |
| 18 | MCSV 47  | 0.93        | 25.0 |
| 19 | MCSV 48  | 1.02        | 27.0 |
| 20 | MCSV 50  | 1.03        | 29.0 |
| 21 | MCSV 501 | 0.93        | 31.5 |
| 22 | MCSV 510 | 1.19        | 34.0 |
| 23 | MCSV 51  | 1.03        | 37.0 |
| 24 | MCSV 53  | 1.12        | 40.0 |
| 25 | MCSV 55  | 1.09        | 43.0 |

| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | EMCSW 02  | 0.57        | 0.5  |
| 2  | EMCSW 04  | 0.59        | 1.0  |
| 3  | EMCSW 05  | 0.61        | 1.6  |
| 4  | EMCSW 06  | 0.65        | 2.1  |
| 5  | EMCSW 08  | 0.68        | 2.8  |
| 6  | EMCSW 09  | 0.71        | 3.9  |
| 7  | EMCSW 12  | 0.75        | 5.0  |
| 8  | EMCSV 14  | 0.80        | 6.3  |
| 9  | EMCSV 20  | 0.79        | 7.5  |
| 10 | EMCSV 22  | 0.90        | 9.6  |
| 11 | EMCSV 30  | 0.85        | 11.8 |
| 12 | EMCSV 300 | 0.92        | 13.4 |
| 13 | EMCSV 301 | 0.95        | 15.0 |
| 14 | EMCSV 305 | 0.97        | 16.5 |
| 15 | EMCSV 31  | 0.98        | 18.0 |
| 16 | EMCSV 33  | 1.00        | 20.0 |
| 17 | EMCSV 45  | 1.05        | 22.5 |
| 18 | EMCSV 47  | 1.06        | 25.0 |
| 19 | EMCSV 48  | 1.12        | 27.0 |
| 20 | EMCSV 50  | 1.16        | 29.0 |
| 21 | EMCSV 501 | 1.05        | 31.5 |
| 22 | EMCSV 510 | 1.32        | 34.0 |
| 23 | EMCSV 51  | 1.15        | 37.0 |
| 24 | EMCSV 53  | 1.24        | 40.0 |
| 25 | EMCSV 55  | 1.22        | 43.0 |

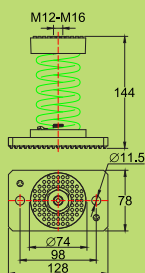
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | ESW 02  | 0.79        | 0.5  |
| 2  | ESW 04  | 0.82        | 1.0  |
| 3  | ESW 05  | 0.84        | 1.6  |
| 4  | ESW 06  | 0.87        | 2.1  |
| 5  | ESW 08  | 0.92        | 2.8  |
| 6  | ESW 09  | 0.96        | 3.9  |
| 7  | ESW 12  | 0.98        | 5.0  |
| 8  | ESV 14  | 1.03        | 6.3  |
| 9  | ESV 20  | 1.03        | 7.5  |
| 10 | ESV 22  | 1.14        | 9.6  |
| 11 | ESV 30  | 1.08        | 11.8 |
| 12 | ESV 300 | 1.14        | 13.4 |
| 13 | ESV 301 | 1.08        | 15.0 |
| 14 | ESV 305 | 1.20        | 16.5 |
| 15 | ESV 31  | 1.15        | 18.0 |
| 16 | ESV 33  | 1.23        | 20.0 |
| 17 | ESV 45  | 1.33        | 22.5 |
| 18 | ESV 47  | 1.34        | 25.0 |
| 19 | ESV 48  | 1.35        | 27.0 |
| 20 | ESV 50  | 1.27        | 29.0 |
| 21 | ESV 501 | 1.44        | 31.5 |
| 22 | ESV 510 | 1.52        | 34.0 |
| 23 | ESV 51  | 1.53        | 37.0 |
| 24 | ESV 53  | 1.33        | 40.0 |
| 25 | ESV 55  | 1.42        | 43.0 |



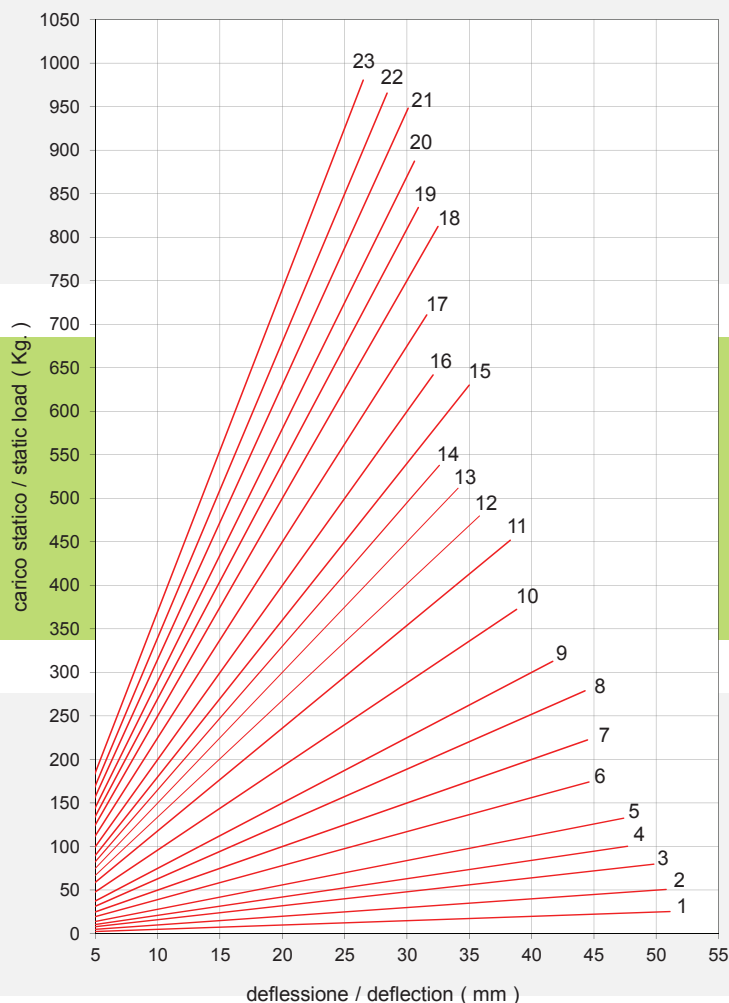
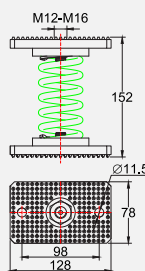
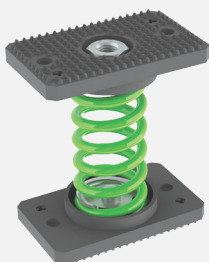
MCSWH - MCSVH



EMCSWH - EMCSVH



ESWH - ESVH

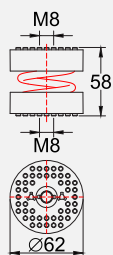


| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | MCSWH 02  | 0.55        | 0.5  |
| 2  | MCSWH 04  | 0.58        | 1.0  |
| 3  | MCSWH 05  | 0.65        | 1.6  |
| 4  | MCSWH 06  | 0.68        | 2.1  |
| 5  | MCSWH 08  | 0.73        | 2.8  |
| 6  | MCSWH 09  | 0.70        | 3.9  |
| 7  | MCSWH 12  | 0.77        | 5.0  |
| 8  | MCSVH 14  | 0.81        | 6.3  |
| 9  | MCSVH 20  | 0.89        | 7.5  |
| 10 | MCSVH 22  | 0.93        | 9.6  |
| 11 | MCSVH 30  | 0.91        | 11.8 |
| 12 | MCSVH 300 | 0.89        | 13.4 |
| 13 | MCSVH 301 | 1.20        | 15.0 |
| 14 | MCSVH 305 | 1.12        | 16.5 |
| 15 | MCSVH 31  | 1.28        | 18.0 |
| 16 | MCSVH 33  | 1.20        | 20.0 |
| 17 | MCSVH 45  | 1.29        | 22.5 |
| 18 | MCSVH 47  | 1.24        | 25.0 |
| 19 | MCSVH 48  | 1.36        | 27.0 |
| 20 | MCSVH 50  | 1.41        | 29.0 |
| 21 | MCSVH 501 | 1.30        | 31.5 |
| 22 | MCSVH 510 | 1.41        | 34.0 |
| 23 | MCSVH 51  | 1.50        | 37.0 |

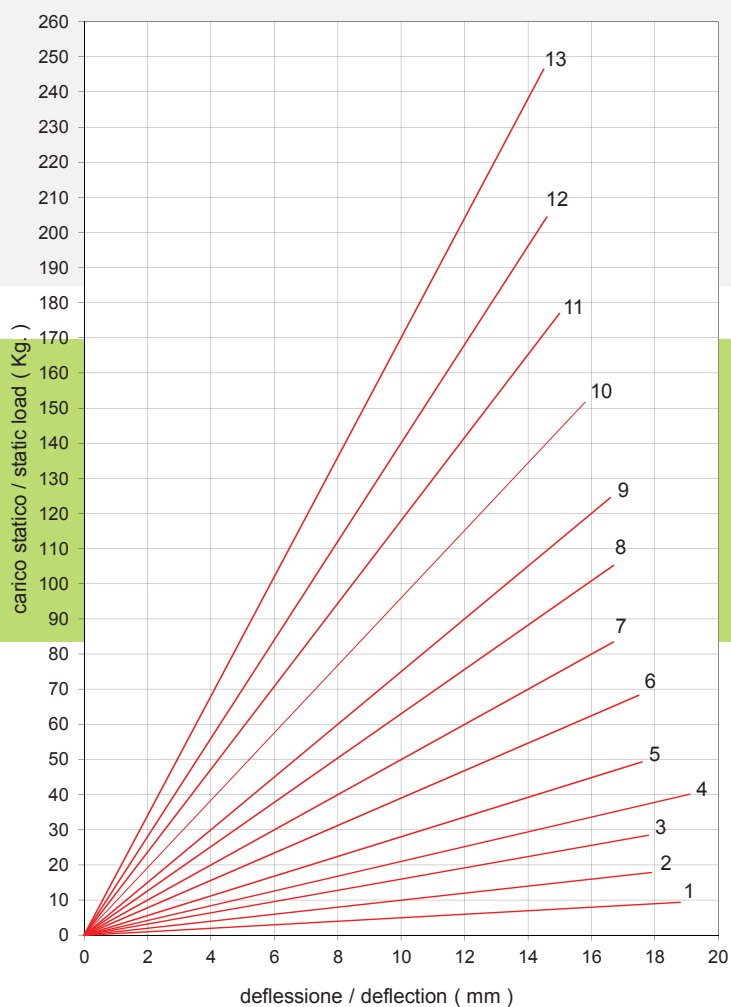
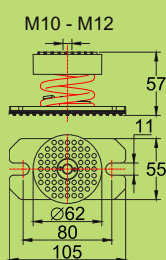
| N. | MODEL      | WEIGHT (kg) | k    |
|----|------------|-------------|------|
| 1  | EMCSWH 02  | 0.67        | 0.5  |
| 2  | EMCSWH 04  | 0.70        | 1.0  |
| 3  | EMCSWH 05  | 0.77        | 1.6  |
| 4  | EMCSWH 06  | 0.80        | 2.1  |
| 5  | EMCSWH 08  | 0.86        | 2.8  |
| 6  | EMCSWH 09  | 0.82        | 3.9  |
| 7  | EMCSWH 12  | 0.90        | 5.0  |
| 8  | EMCSVH 14  | 0.93        | 6.3  |
| 9  | EMCSVH 20  | 1.01        | 7.5  |
| 10 | EMCSVH 22  | 1.06        | 9.6  |
| 11 | EMCSVH 30  | 1.03        | 11.8 |
| 12 | EMCSVH 300 | 1.02        | 13.4 |
| 13 | EMCSVH 301 | 1.32        | 15.0 |
| 14 | EMCSVH 305 | 1.25        | 16.5 |
| 15 | EMCSVH 31  | 1.41        | 18.0 |
| 16 | EMCSVH 33  | 1.33        | 20.0 |
| 17 | EMCSVH 45  | 1.41        | 22.5 |
| 18 | EMCSVH 47  | 1.36        | 25.0 |
| 19 | EMCSVH 48  | 1.48        | 27.0 |
| 20 | EMCSVH 50  | 1.54        | 29.0 |
| 21 | EMCSVH 501 | 1.43        | 31.5 |
| 22 | EMCSVH 510 | 1.53        | 34.0 |
| 23 | EMCSVH 51  | 1.62        | 37.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | ESWH 02  | 0.88        | 0.5  |
| 2  | ESWH 04  | 0.95        | 1.0  |
| 3  | ESWH 05  | 1.03        | 1.6  |
| 4  | ESWH 06  | 1.04        | 2.1  |
| 5  | ESWH 08  | 1.09        | 2.8  |
| 6  | ESWH 09  | 1.05        | 3.9  |
| 7  | ESWH 12  | 1.09        | 5.0  |
| 8  | ESVH 14  | 1.15        | 6.3  |
| 9  | ESVH 20  | 1.22        | 7.5  |
| 10 | ESVH 22  | 1.29        | 9.6  |
| 11 | ESVH 30  | 1.26        | 11.8 |
| 12 | ESVH 300 | 1.24        | 13.4 |
| 13 | ESVH 301 | 1.55        | 15.0 |
| 14 | ESVH 305 | 1.47        | 16.5 |
| 15 | ESVH 31  | 1.65        | 18.0 |
| 16 | ESVH 33  | 1.55        | 20.0 |
| 17 | ESVH 45  | 1.55        | 22.5 |
| 18 | ESVH 47  | 1.59        | 25.0 |
| 19 | ESVH 48  | 1.69        | 27.0 |
| 20 | ESVH 50  | 1.76        | 29.0 |
| 21 | ESVH 501 | 1.65        | 31.5 |
| 22 | ESVH 510 | 1.75        | 34.0 |
| 23 | ESVH 51  | 1.86        | 37.0 |

MFb



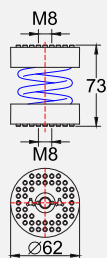
PFb



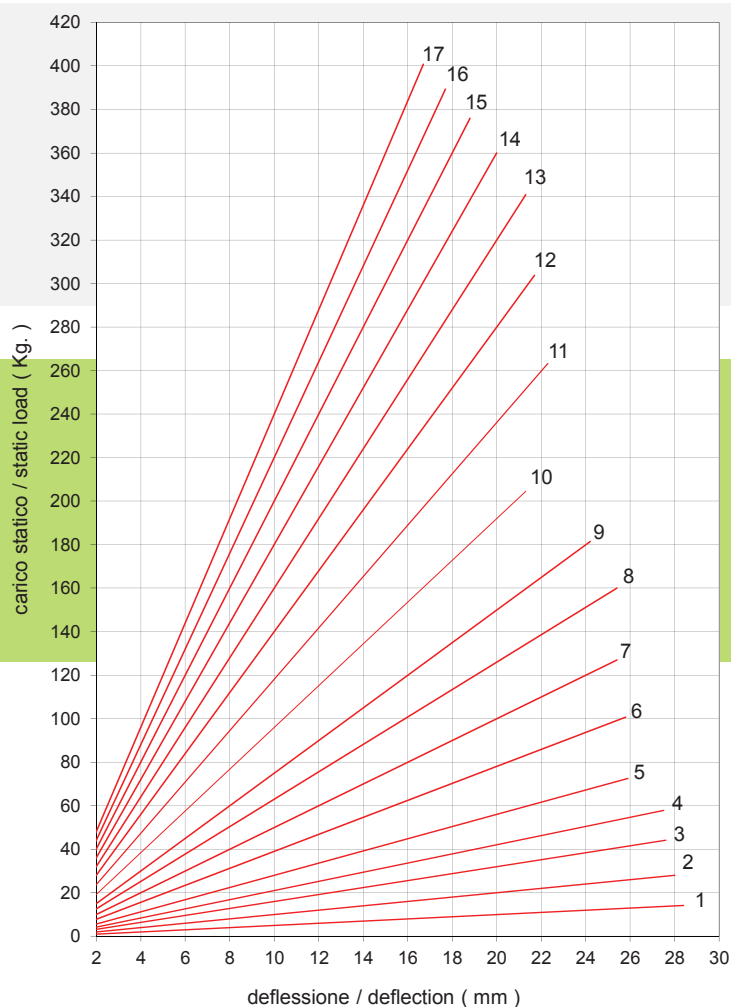
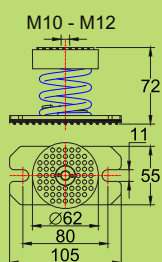
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | MFb 1  | 0.20        | 0.5  |
| 2  | MFb 2  | 0.20        | 1.0  |
| 3  | MFb 4  | 0.21        | 1.6  |
| 4  | MFb 5  | 0.20        | 2.1  |
| 5  | MFb 8  | 0.22        | 2.8  |
| 6  | MFb 80 | 0.21        | 3.9  |
| 7  | MFb 9  | 0.24        | 5.0  |
| 8  | MFb 90 | 0.24        | 6.3  |
| 9  | MFb 10 | 0.24        | 7.5  |
| 10 | MFb 11 | 0.25        | 9.6  |
| 11 | MFb 12 | 0.28        | 11.8 |
| 12 | MFb 13 | 0.27        | 14.0 |
| 13 | MFb 14 | 0.28        | 17.0 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | PFb 1  | 0.29        | 0.5  |
| 2  | PFb 2  | 0.29        | 1.0  |
| 3  | PFb 4  | 0.30        | 1.6  |
| 4  | PFb 5  | 0.28        | 2.1  |
| 5  | PFb 8  | 0.31        | 2.8  |
| 6  | PFb 80 | 0.30        | 3.9  |
| 7  | PFb 9  | 0.33        | 5.0  |
| 8  | PFb 90 | 0.33        | 6.3  |
| 9  | PFb 10 | 0.33        | 7.5  |
| 10 | PFb 11 | 0.34        | 9.6  |
| 11 | PFb 12 | 0.36        | 11.8 |
| 12 | PFb 13 | 0.36        | 14.0 |
| 13 | PFb 14 | 0.37        | 17.0 |

### MFr



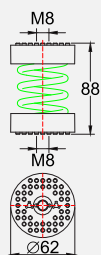
### PFr



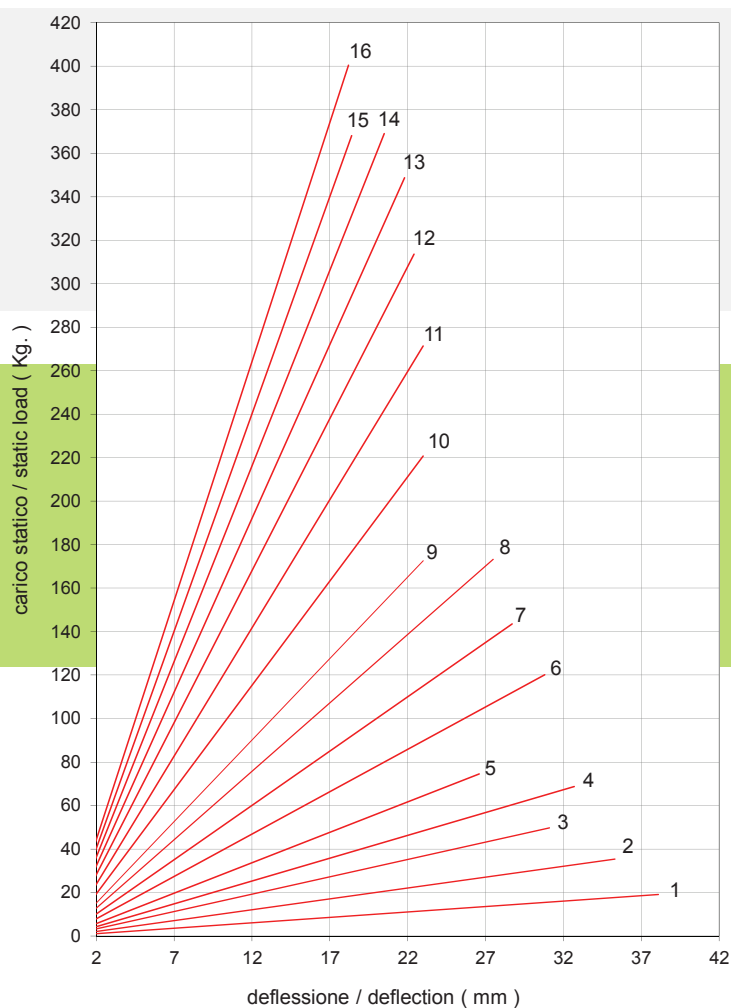
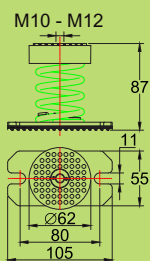
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MFr 1   | 0.19        | 0.5  |
| 2  | MFr 2   | 0.21        | 1.0  |
| 3  | MFr 4   | 0.22        | 1.6  |
| 4  | MFr 5   | 0.22        | 2.1  |
| 5  | MFr 8   | 0.25        | 2.8  |
| 6  | MFr 80  | 0.25        | 3.9  |
| 7  | MFr 9   | 0.27        | 5.0  |
| 8  | MFr 90  | 0.27        | 6.3  |
| 9  | MFr 10  | 0.28        | 7.5  |
| 10 | MFr 11  | 0.30        | 9.6  |
| 11 | MFr 12  | 0.31        | 11.8 |
| 12 | MFr 13  | 0.33        | 14.0 |
| 13 | MFr 130 | 0.34        | 16.0 |
| 14 | MFr 14  | 0.33        | 18.0 |
| 15 | MFr 20  | 0.38        | 20.0 |
| 16 | MFr 22  | 0.38        | 22.0 |
| 17 | MFr 30  | 0.33        | 24.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | PFr 1   | 0.28        | 0.5  |
| 2  | PFr 2   | 0.29        | 1.0  |
| 3  | PFr 4   | 0.31        | 1.6  |
| 4  | PFr 5   | 0.31        | 2.1  |
| 5  | PFr 8   | 0.34        | 2.8  |
| 6  | PFr 80  | 0.33        | 3.9  |
| 7  | PFr 9   | 0.36        | 5.0  |
| 8  | PFr 90  | 0.36        | 6.3  |
| 9  | PFr 10  | 0.36        | 7.5  |
| 10 | PFr 11  | 0.38        | 9.6  |
| 11 | PFr 12  | 0.39        | 11.8 |
| 12 | PFr 13  | 0.41        | 14.0 |
| 13 | PFr 130 | 0.42        | 16.0 |
| 14 | PFr 14  | 0.42        | 18.0 |
| 15 | PFr 20  | 0.47        | 20.0 |
| 16 | PFr 22  | 0.46        | 22.0 |
| 17 | PFr 30  | 0.42        | 24.0 |

MF



PF

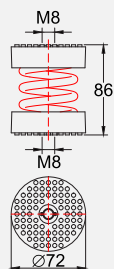


| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | MF 1   | 0.21        | 0.5  |
| 2  | MF 2   | 0.22        | 1.0  |
| 3  | MF 4   | 0.26        | 1.6  |
| 4  | MF 5   | 0.29        | 2.1  |
| 5  | MF 8   | 0.31        | 2.8  |
| 6  | MF 80  | 0.32        | 3.9  |
| 7  | MF 9   | 0.31        | 5.0  |
| 8  | MF 90  | 0.33        | 6.3  |
| 9  | MF 10  | 0.40        | 7.5  |
| 10 | MF 11  | 0.41        | 9.6  |
| 11 | MF 12  | 0.41        | 11.8 |
| 12 | MF 13  | 0.45        | 14.0 |
| 13 | MF 130 | 0.51        | 16.0 |
| 14 | MF 14  | 0.45        | 18.0 |
| 15 | MF 20  | 0.53        | 20.0 |
| 16 | MF 22  | 0.52        | 22.0 |

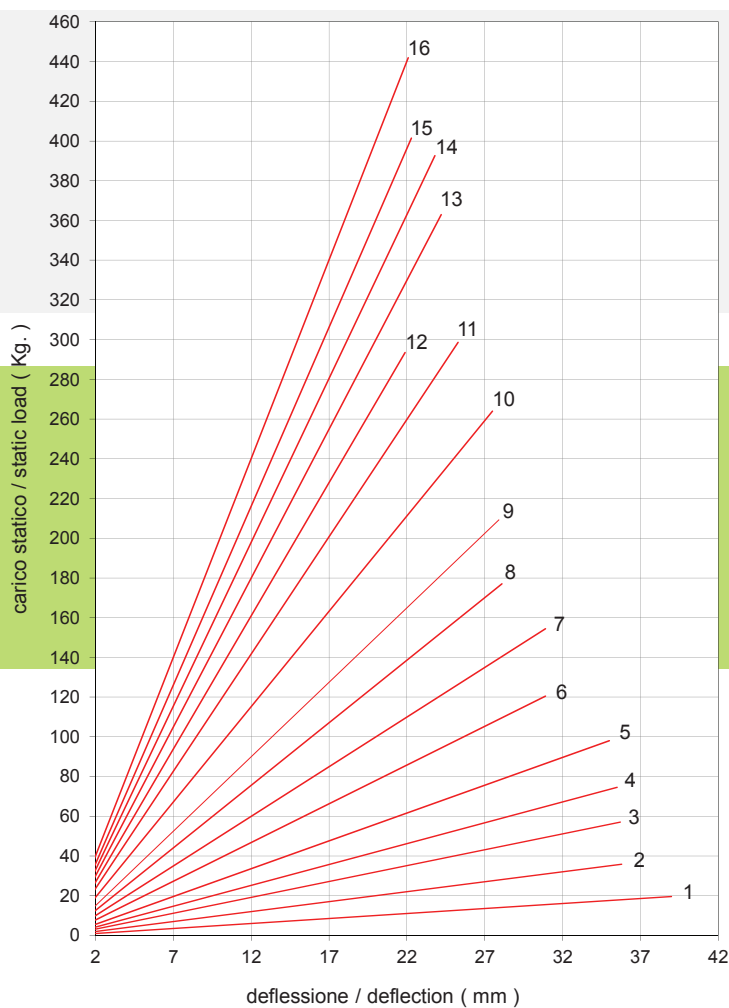
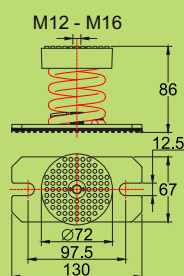
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | PF 1   | 0.29        | 0.5  |
| 2  | PF 2   | 0.31        | 1.0  |
| 3  | PF 4   | 0.34        | 1.6  |
| 4  | PF 5   | 0.37        | 2.1  |
| 5  | PF 8   | 0.40        | 2.8  |
| 6  | PF 80  | 0.40        | 3.9  |
| 7  | PF 9   | 0.40        | 5.0  |
| 8  | PF 90  | 0.42        | 6.3  |
| 9  | PF 10  | 0.49        | 7.5  |
| 10 | PF 11  | 0.49        | 9.6  |
| 11 | PF 12  | 0.49        | 11.8 |
| 12 | PF 13  | 0.53        | 14.0 |
| 13 | PF 130 | 0.59        | 16.0 |
| 14 | PF 14  | 0.54        | 18.0 |
| 15 | PF 20  | 0.62        | 20.0 |
| 16 | PF 22  | 0.61        | 22.0 |



MWr - MVr



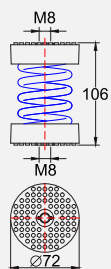
PWr - PVr



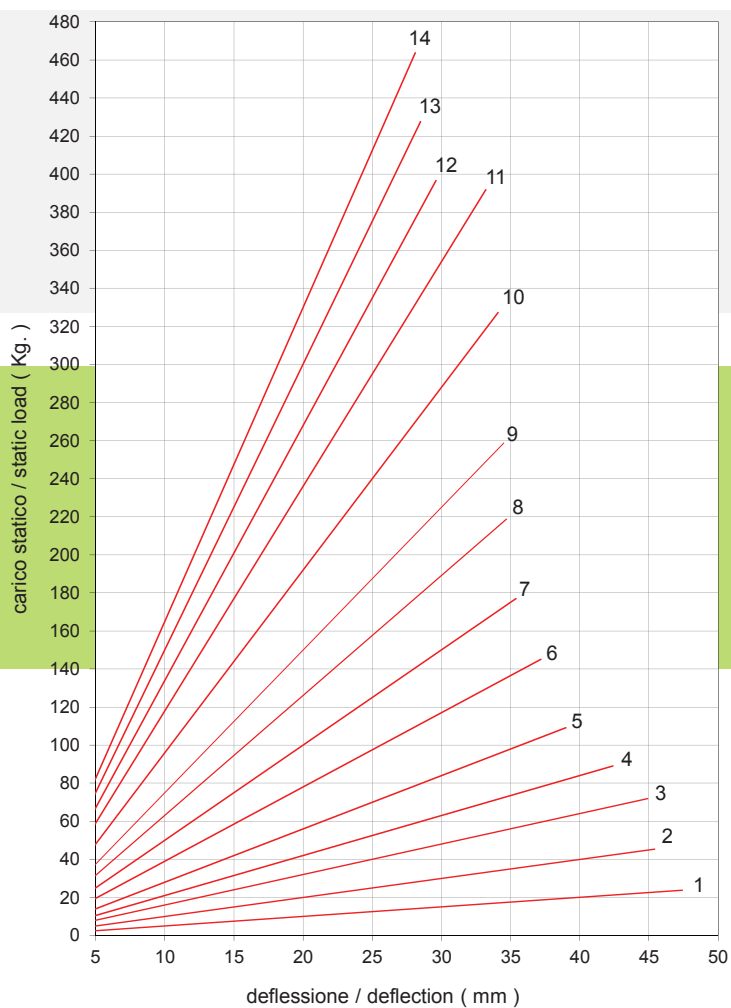
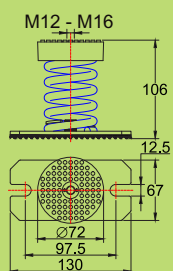
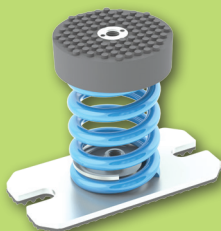
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | MWr 02  | 0.29        | 0.5  |
| 2  | MWr 04  | 0.30        | 1.0  |
| 3  | MWr 05  | 0.31        | 1.6  |
| 4  | MWr 06  | 0.39        | 2.1  |
| 5  | MWr 08  | 0.34        | 2.8  |
| 6  | MWr 09  | 0.37        | 3.9  |
| 7  | MWr 12  | 0.40        | 5.0  |
| 8  | MWr 14  | 0.43        | 6.3  |
| 9  | MWr 20  | 0.46        | 7.5  |
| 10 | MWr 22  | 0.48        | 9.6  |
| 11 | MWr 30  | 0.51        | 11.8 |
| 12 | MWr 300 | 0.52        | 13.4 |
| 13 | MWr 301 | 0.55        | 15.0 |
| 14 | MWr 305 | 0.56        | 16.5 |
| 15 | MWr 31  | 0.58        | 18.0 |
| 16 | MWr 33  | 0.54        | 20.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | PWr 02  | 0.49        | 0.5  |
| 2  | PWr 04  | 0.51        | 1.0  |
| 3  | PWr 05  | 0.51        | 1.6  |
| 4  | PWr 06  | 0.59        | 2.1  |
| 5  | PWr 08  | 0.54        | 2.8  |
| 6  | PWr 09  | 0.58        | 3.9  |
| 7  | PWr 12  | 0.61        | 5.0  |
| 8  | PWr 14  | 0.64        | 6.3  |
| 9  | PWr 20  | 0.67        | 7.5  |
| 10 | PWr 22  | 0.68        | 9.6  |
| 11 | PWr 30  | 0.72        | 11.8 |
| 12 | PWr 300 | 0.73        | 13.4 |
| 13 | PWr 301 | 0.75        | 15.0 |
| 14 | PWr 305 | 0.76        | 16.5 |
| 15 | PWr 31  | 0.78        | 18.0 |
| 16 | PWr 33  | 0.74        | 20.0 |

## MW - MV



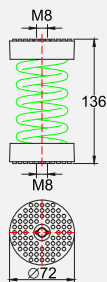
## PW - PV



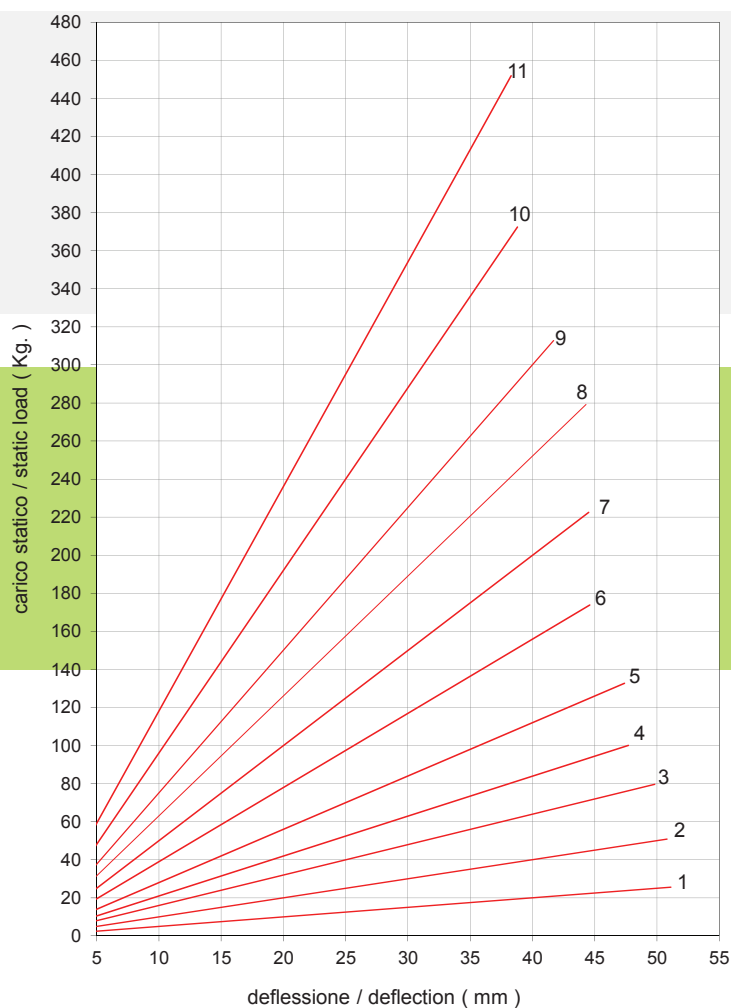
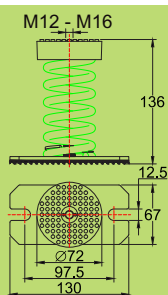
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | MW 02  | 0.32        | 0.5  |
| 2  | MW 04  | 0.35        | 1.0  |
| 3  | MW 05  | 0.37        | 1.6  |
| 4  | MW 06  | 0.40        | 2.1  |
| 5  | MW 08  | 0.44        | 2.8  |
| 6  | MW 09  | 0.48        | 3.9  |
| 7  | MW 12  | 0.51        | 5.0  |
| 8  | MV 14  | 0.56        | 6.3  |
| 9  | MV 20  | 0.55        | 7.5  |
| 10 | MV 22  | 0.66        | 9.6  |
| 11 | MV 30  | 0.60        | 11.8 |
| 12 | MV 300 | 0.66        | 13.4 |
| 13 | MV 301 | 0.61        | 15.0 |
| 14 | MV 305 | 0.73        | 16.5 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | PW 02  | 0.53        | 0.5  |
| 2  | PW 04  | 0.55        | 1.0  |
| 3  | PW 05  | 0.57        | 1.6  |
| 4  | PW 06  | 0.60        | 2.1  |
| 5  | PW 08  | 0.65        | 2.8  |
| 6  | PW 09  | 0.69        | 3.9  |
| 7  | PW 12  | 0.71        | 5.0  |
| 8  | PV 14  | 0.76        | 6.3  |
| 9  | PV 20  | 0.76        | 7.5  |
| 10 | PV 22  | 0.87        | 9.6  |
| 11 | PV 30  | 0.81        | 11.8 |
| 12 | PV 300 | 0.87        | 13.4 |
| 13 | PV 301 | 0.82        | 15.0 |
| 14 | PV 305 | 0.93        | 16.5 |

MWH - MVH



PWH - PVH



| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | MWH 02 | 0.41        | 0.5  |
| 2  | MWH 04 | 0.48        | 1.0  |
| 3  | MWH 05 | 0.56        | 1.6  |
| 4  | MWH 06 | 0.57        | 2.1  |
| 5  | MWH 08 | 0.62        | 2.8  |
| 6  | MWH 09 | 0.58        | 3.9  |
| 7  | MWH 12 | 0.63        | 5.0  |
| 8  | MVH 14 | 0.68        | 6.3  |
| 9  | MVH 20 | 0.75        | 7.5  |
| 10 | MVH 22 | 0.82        | 9.6  |
| 11 | MVH 30 | 0.79        | 11.8 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | PWH 02 | 0.61        | 0.5  |
| 2  | PWH 04 | 0.67        | 1.0  |
| 3  | PWH 05 | 0.76        | 1.6  |
| 4  | PWH 06 | 0.77        | 2.1  |
| 5  | PWH 08 | 0.82        | 2.8  |
| 6  | PWH 09 | 0.78        | 3.9  |
| 7  | PWH 12 | 0.82        | 5.0  |
| 8  | PVH 14 | 0.87        | 6.3  |
| 9  | PVH 20 | 0.95        | 7.5  |
| 10 | PVH 22 | 1.02        | 9.6  |
| 11 | PVH 30 | 0.98        | 11.8 |

# **SERIE B – K – PP**

## ***B – K – PP SERIES***



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.*



#### CARATTERISTICHE COSTRUTTIVE

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Piastre e dischi in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, per il contenimento molla.
- Dischi sagomati in acciaio disco in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, bloccano la molla alle piastre/dischi tramite bussole filettate.

#### A RICHIESTA

- Verniciatura della molla a polvere poliestere, colori secondo nostra tabella RAL.
- Cuscinetto in gomma con rilievi deformabili antiscivolo che consentono all'antivibrante caricato di stazionare per attrito.

#### 100% ACCIAIO

Antivibrante completamente in acciaio, ideale per installazioni in siti con temperature estreme, anche oltre i +150°C.

#### MANUFACTURING CHARACTERISTICS

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cataphoretic treatment.
- UNI EN 10111 DD13 steel plates and discs, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, for spring containment.
- Steel shaped discs UNI EN 10111 DD13 steel disc, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, lock the spring to the plates / discs by means of threaded bushes.

#### ON REQUEST

- Polyester powder coating of the spring, colors according to our RAL chart.
- Rubber pad with non-slip deformable reliefs that allow the loaded anti-vibration mount to be stationary due to friction.

#### 100% STEEL MADE

Anti-vibration mount completely made of steel, ideal for installation with extreme temperatures, even above +150°C.





## SERIE B

### ANCORAGGIO CON VITI

Dischi in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, contengono la molla e sono dotati di bussole filettate M8 (BF-BW/V), M10 o M12 (BW/V) per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra.

## B SERIES

### ANCHORING WITH SCREWS

UNI EN 10111 DD13 steel discs, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, contain the spring and are equipped with M8 (BF-BW/V), M10 or M12 (BW/V) threaded bushings for anchoring the anti-vibration to the base of the machine and/or to the ground.



## SERIE K

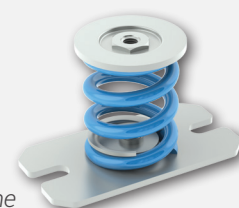
### ANCORAGGIO A TERRA CON PIASTRA BASE

Piastra e disco in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, contengono la molla. Il disco superiore è dotato di bussola filettata M8 (KF-KW/V) e M10 o M12 (KW/V) per l'ancoraggio dell'antivibrante al basamento della macchina. La piastra base è dotata di 2 sedi per l'ancoraggio dell'antivibrante verso terra.

## K SERIES

### GROUND ANCHORING WITH BASE PLATE

UNI EN 10111 DD13 steel plate and disc, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, they contain the spring. The upper disc is equipped with an M8 threaded bush (KF-KW/V) and M10 or M12 (KW/V) for anchoring of the anti-vibration mount on the base of the machine. The base plate is equipped with 2 seats for anchoring the anti-vibration mount to the ground.



## SERIE PP

### ANCORAGGIO A TERRA E ALLA MACCHINA CON PIASTRE

Piastrine in acciaio UNI EN 10111 DD13, zincate secondo UNI ISO 2081 Fe/Zn 12c1A, contengono la molla. La piastra superiore è dotata di bussola filettata M8 (PPF-PPW/V), M10 o M12 (PPW/V) per l'ancoraggio dell'antivibrante al basamento della macchina. La piastra base è dotata di 2 sedi per l'ancoraggio dell'antivibrante verso terra.

## PP SERIES

### ANCHORING TO THE GROUND AND TO THE MACHINE WITH PLATES

UNI EN 10111 DD13 steel plates, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, contain the spring. The upper plate is equipped with an M8 (PPF-PPW/V), M10 or M12 (PPW/V) threaded bush for anchoring the anti-vibration mount to the machine base. The base plate is equipped with 2 seats for anchoring the anti-vibration mount to the ground.

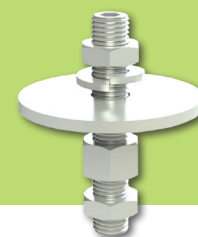


## ACCESSORI

- Martinetto, in acciaio zincato o inox AISI 316, per la registrazione della quota macchina.

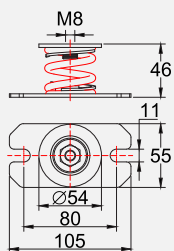
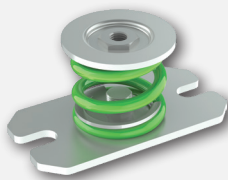
## ACCESSORIES

- Jack in galvanized steel or in stainless steel AISI 316, to facilitate the registration of the machine level.

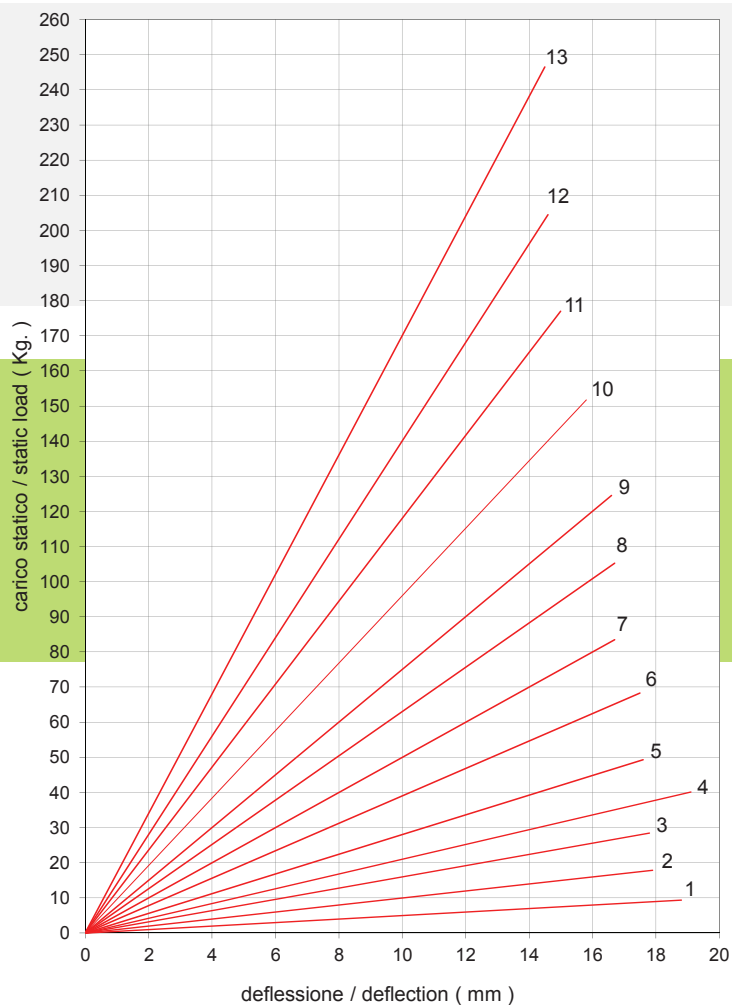
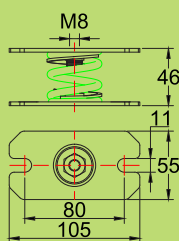
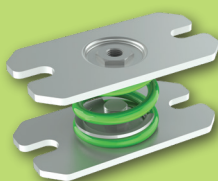


| CODE          | DESCRIPTION | SUITABLE FOR SERIES |
|---------------|-------------|---------------------|
| 0000MRM8/0000 | jack M8     | B - K               |
| 0000MRM10/000 | jack M10    | B - K               |
| 0000MRM12/000 | jack M12    | B - K               |

KFb



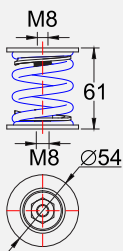
PPFb



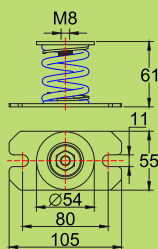
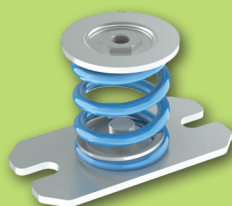
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | KFb 1  | 0.23        | 0.5  |
| 2  | KFb 2  | 0.27        | 1.0  |
| 3  | KFb 4  | 0.28        | 1.6  |
| 4  | KFb 5  | 0.27        | 2.1  |
| 5  | KFb 8  | 0.29        | 2.8  |
| 6  | KFb 80 | 0.28        | 3.9  |
| 7  | KFb 9  | 0.31        | 5.0  |
| 8  | KFb 90 | 0.31        | 6.3  |
| 9  | KFb 10 | 0.31        | 7.5  |
| 10 | KFb 11 | 0.32        | 9.6  |
| 11 | KFb 12 | 0.35        | 11.8 |
| 12 | KFb 13 | 0.34        | 14.0 |
| 13 | KFb 14 | 0.35        | 17.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | PPFb 1  | 0.34        | 0.5  |
| 2  | PPFb 2  | 0.34        | 1.0  |
| 3  | PPFb 4  | 0.35        | 1.6  |
| 4  | PPFb 5  | 0.34        | 2.1  |
| 5  | PPFb 8  | 0.36        | 2.8  |
| 6  | PPFb 80 | 0.35        | 3.9  |
| 7  | PPFb 9  | 0.38        | 5.0  |
| 8  | PPFb 90 | 0.38        | 6.3  |
| 9  | PPFb 10 | 0.38        | 7.5  |
| 10 | PPFb 11 | 0.39        | 9.6  |
| 11 | PPFb 12 | 0.41        | 11.8 |
| 12 | PPFb 13 | 0.41        | 14.0 |
| 13 | PPFb 14 | 0.42        | 17.0 |

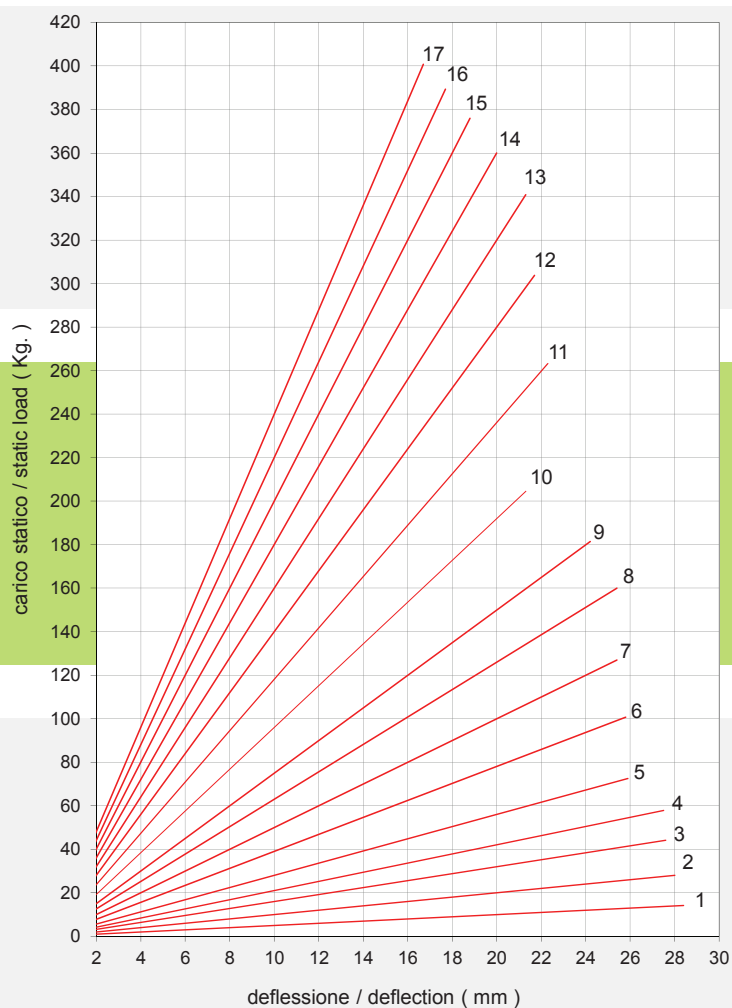
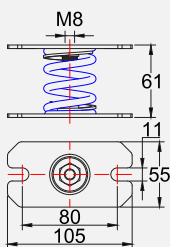
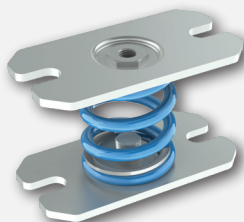
## BFr



## KFr



## PPFr

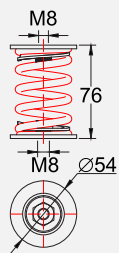


| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | BFr 1   | 0.16        | 0.5  |
| 2  | BFr 2   | 0.17        | 1.0  |
| 3  | BFr 4   | 0.19        | 1.6  |
| 4  | BFr 5   | 0.19        | 2.1  |
| 5  | BFr 8   | 0.22        | 2.8  |
| 6  | BFr 80  | 0.22        | 3.9  |
| 7  | BFr 9   | 0.24        | 5.0  |
| 8  | BFr 90  | 0.24        | 6.3  |
| 9  | BFr 10  | 0.25        | 7.5  |
| 10 | BFr 11  | 0.27        | 9.6  |
| 11 | BFr 12  | 0.28        | 11.8 |
| 12 | BFr 13  | 0.29        | 14.0 |
| 13 | BFr 130 | 0.31        | 16.0 |
| 14 | BFr 14  | 0.30        | 18.0 |
| 15 | BFr 20  | 0.35        | 20.0 |
| 16 | BFr 22  | 0.35        | 22.0 |
| 17 | BFr 30  | 0.30        | 24.0 |

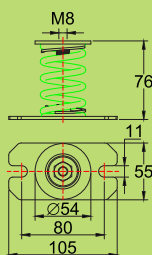
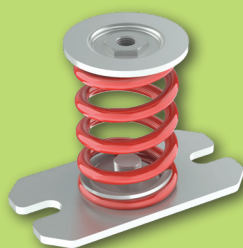
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | KFr 1   | 0.26        | 0.5  |
| 2  | KFr 2   | 0.27        | 1.0  |
| 3  | KFr 4   | 0.29        | 1.6  |
| 4  | KFr 5   | 0.29        | 2.1  |
| 5  | KFr 8   | 0.32        | 2.8  |
| 6  | KFr 80  | 0.32        | 3.9  |
| 7  | KFr 9   | 0.34        | 5.0  |
| 8  | KFr 90  | 0.34        | 6.3  |
| 9  | KFr 10  | 0.35        | 7.5  |
| 10 | KFr 11  | 0.37        | 9.6  |
| 11 | KFr 12  | 0.38        | 11.8 |
| 12 | KFr 13  | 0.39        | 14.0 |
| 13 | KFr 130 | 0.41        | 16.0 |
| 14 | KFr 14  | 0.40        | 18.0 |
| 15 | KFr 20  | 0.46        | 20.0 |
| 16 | KFr 22  | 0.46        | 22.0 |
| 17 | KFr 30  | 0.41        | 24.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | PPFr 1   | 0.33        | 0.5  |
| 2  | PPFr 2   | 0.34        | 1.0  |
| 3  | PPFr 4   | 0.36        | 1.6  |
| 4  | PPFr 5   | 0.36        | 2.1  |
| 5  | PPFr 8   | 0.39        | 2.8  |
| 6  | PPFr 80  | 0.38        | 3.9  |
| 7  | PPFr 9   | 0.41        | 5.0  |
| 8  | PPFr 90  | 0.41        | 6.3  |
| 9  | PPFr 10  | 0.42        | 7.5  |
| 10 | PPFr 11  | 0.43        | 9.6  |
| 11 | PPFr 12  | 0.45        | 11.8 |
| 12 | PPFr 13  | 0.46        | 14.0 |
| 13 | PPFr 130 | 0.47        | 16.0 |
| 14 | PPFr 14  | 0.47        | 18.0 |
| 15 | PPFr 20  | 0.53        | 20.0 |
| 16 | PPFr 22  | 0.53        | 22.0 |
| 17 | PPFr 30  | 0.58        | 24.0 |

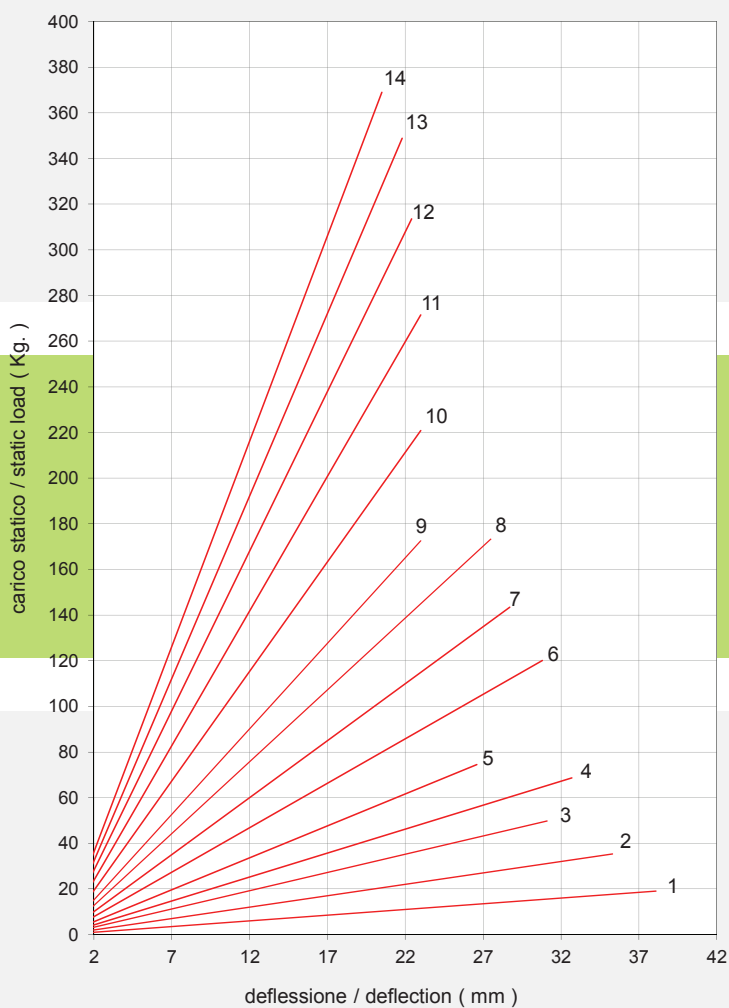
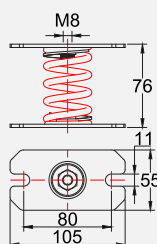
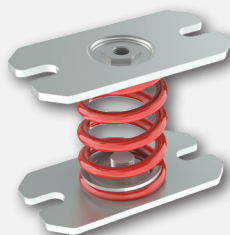
BF



KF



PPF



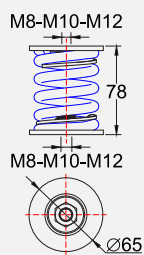
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | BF 1   | 0.18        | 0.5  |
| 2  | BF 2   | 0.19        | 1.0  |
| 3  | BF 4   | 0.22        | 1.6  |
| 4  | BF 5   | 0.26        | 2.1  |
| 5  | BF 8   | 0.28        | 2.8  |
| 6  | BF 80  | 0.28        | 3.9  |
| 7  | BF 9   | 0.28        | 5.0  |
| 8  | BF 90  | 0.30        | 6.3  |
| 9  | BF 10  | 0.37        | 7.5  |
| 10 | BF 11  | 0.38        | 9.6  |
| 11 | BF 12  | 0.37        | 11.8 |
| 12 | BF 13  | 0.41        | 14.0 |
| 13 | BF 130 | 0.52        | 16.0 |
| 14 | BF 14  | 0.47        | 18.0 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | KF 1   | 0.28        | 0.5  |
| 2  | KF 2   | 0.29        | 1.0  |
| 3  | KF 4   | 0.32        | 1.6  |
| 4  | KF 5   | 0.36        | 2.1  |
| 5  | KF 8   | 0.38        | 2.8  |
| 6  | KF 80  | 0.38        | 3.9  |
| 7  | KF 9   | 0.38        | 5.0  |
| 8  | KF 90  | 0.39        | 6.3  |
| 9  | KF 10  | 0.47        | 7.5  |
| 10 | KF 11  | 0.48        | 9.6  |
| 11 | KF 12  | 0.47        | 11.8 |
| 12 | KF 13  | 0.51        | 14.0 |
| 13 | KF 130 | 0.57        | 16.0 |
| 14 | KF 14  | 0.52        | 18.0 |

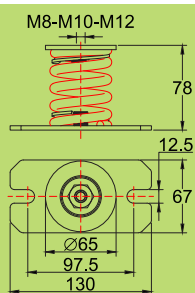
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | PPF 1   | 0.35        | 0.5  |
| 2  | PPF 2   | 0.36        | 1.0  |
| 3  | PPF 4   | 0.39        | 1.6  |
| 4  | PPF 5   | 0.42        | 2.1  |
| 5  | PPF 8   | 0.45        | 2.8  |
| 6  | PPF 80  | 0.45        | 3.9  |
| 7  | PPF 9   | 0.45        | 5.0  |
| 8  | PPF 90  | 0.47        | 6.3  |
| 9  | PPF 10  | 0.54        | 7.5  |
| 10 | PPF 11  | 0.55        | 9.6  |
| 11 | PPF 12  | 0.54        | 11.8 |
| 12 | PPF 13  | 0.58        | 14.0 |
| 13 | PPF 130 | 0.64        | 16.0 |
| 14 | PPF 14  | 0.59        | 18.0 |



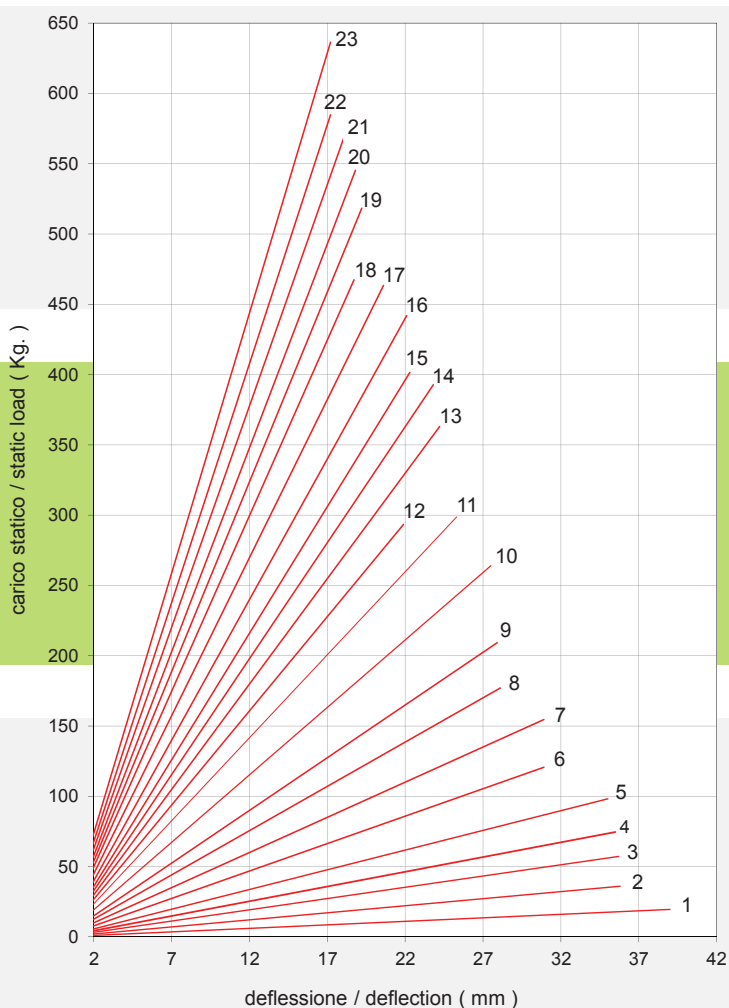
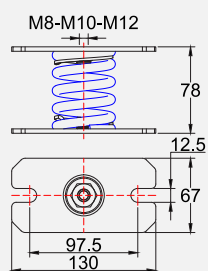
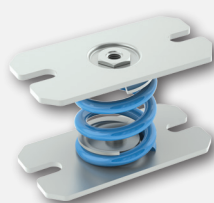
## BWr - BVr



## KWr - KVr



## PPWr - PPVr

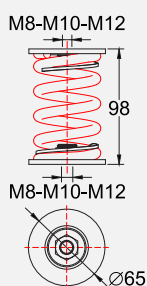


| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | BWr 02  | 0.26        | 0.5  |
| 2  | BWr 04  | 0.27        | 1.0  |
| 3  | BWr 05  | 0.28        | 1.6  |
| 4  | BWr 06  | 0.36        | 2.1  |
| 5  | BWr 08  | 0.31        | 2.8  |
| 6  | BWr 09  | 0.34        | 3.9  |
| 7  | BWr 12  | 0.37        | 5.0  |
| 8  | BVr 14  | 0.41        | 6.3  |
| 9  | BVr 20  | 0.43        | 7.5  |
| 10 | BVr 22  | 0.45        | 9.6  |
| 11 | BVr 30  | 0.48        | 11.8 |
| 12 | BVr 300 | 0.49        | 13.4 |
| 13 | BVr 301 | 0.52        | 15.0 |
| 14 | BVr 305 | 0.53        | 16.5 |
| 15 | BVr 31  | 0.55        | 18.0 |
| 16 | BVr 33  | 0.51        | 20.0 |
| 17 | BVr 45  | 0.69        | 22.5 |
| 18 | BVr 47  | 0.73        | 25.0 |
| 19 | BVr 48  | 0.75        | 27.0 |
| 20 | BVr 50  | 0.83        | 29.0 |
| 21 | BVr 501 | 0.80        | 31.5 |
| 22 | BVr 510 | 0.79        | 34.0 |
| 23 | BVr 51  | 0.85        | 37.0 |

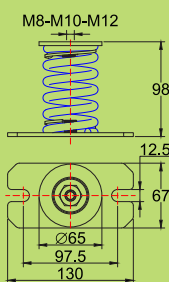
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | KWr 02  | 0.50        | 0.5  |
| 2  | KWr 04  | 0.51        | 1.0  |
| 3  | KWr 05  | 0.52        | 1.6  |
| 4  | KWr 06  | 0.60        | 2.1  |
| 5  | KWr 08  | 0.55        | 2.8  |
| 6  | KWr 09  | 0.58        | 3.9  |
| 7  | KWr 12  | 0.61        | 5.0  |
| 8  | KVr 14  | 0.65        | 6.3  |
| 9  | KVr 20  | 0.67        | 7.5  |
| 10 | KVr 22  | 0.69        | 9.6  |
| 11 | KVr 30  | 0.72        | 11.8 |
| 12 | KVr 300 | 0.74        | 13.4 |
| 13 | KVr 301 | 0.76        | 15.0 |
| 14 | KVr 305 | 0.77        | 16.5 |
| 15 | KVr 31  | 0.78        | 18.0 |
| 16 | KVr 33  | 0.75        | 20.0 |
| 17 | KVr 45  | 0.82        | 22.5 |
| 18 | KVr 47  | 0.86        | 25.0 |
| 19 | KVr 48  | 0.89        | 27.0 |
| 20 | KVr 50  | 0.97        | 29.0 |
| 21 | KVr 501 | 0.94        | 31.5 |
| 22 | KVr 510 | 0.93        | 34.0 |
| 23 | KVr 51  | 0.98        | 37.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | PPWr 02  | 0.65        | 0.5  |
| 2  | PPWr 04  | 0.66        | 1.0  |
| 3  | PPWr 05  | 0.67        | 1.6  |
| 4  | PPWr 06  | 0.75        | 2.1  |
| 5  | PPWr 08  | 0.69        | 2.8  |
| 6  | PPWr 09  | 0.73        | 3.9  |
| 7  | PPWr 12  | 0.76        | 5.0  |
| 8  | PPVr 14  | 0.79        | 6.3  |
| 9  | PPVr 20  | 0.82        | 7.5  |
| 10 | PPVr 22  | 0.84        | 9.6  |
| 11 | PPVr 30  | 0.87        | 11.8 |
| 12 | PPVr 300 | 0.88        | 13.4 |
| 13 | PPVr 301 | 0.91        | 15.0 |
| 14 | PPVr 305 | 0.92        | 16.5 |
| 15 | PPVr 31  | 0.94        | 18.0 |
| 16 | PPVr 33  | 0.89        | 20.0 |
| 17 | PPVr 45  | 0.97        | 22.5 |
| 18 | PPVr 47  | 1.01        | 25.0 |
| 19 | PPVr 48  | 1.04        | 27.0 |
| 20 | PPVr 50  | 1.11        | 29.0 |
| 21 | PPVr 501 | 1.08        | 31.5 |
| 22 | PPVr 510 | 1.07        | 34.0 |
| 23 | PPVr 51  | 1.13        | 37.0 |

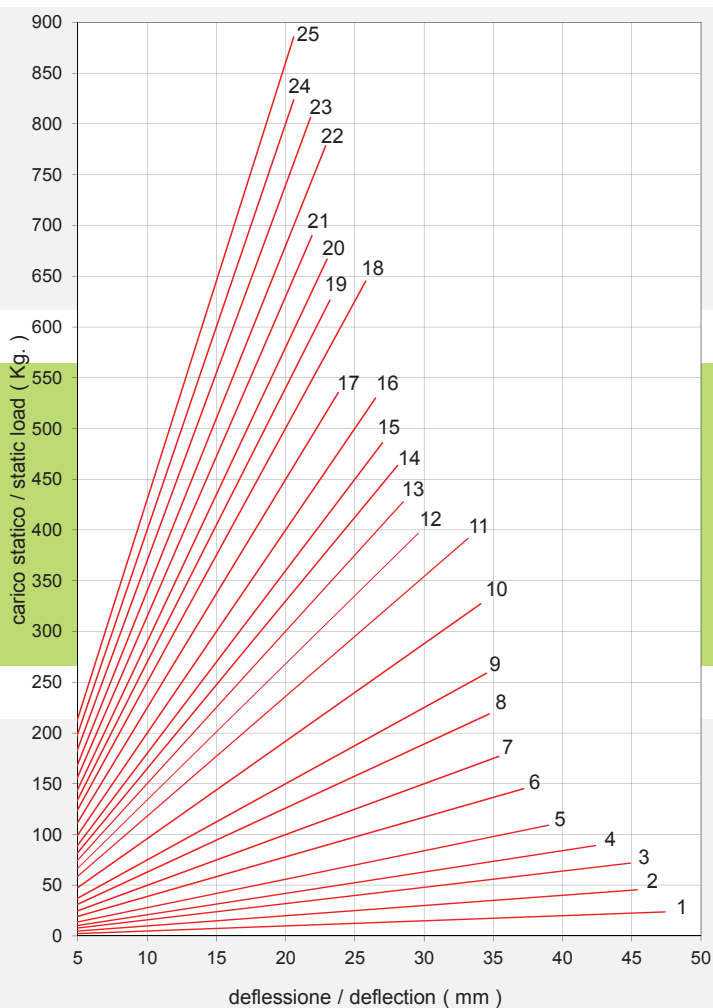
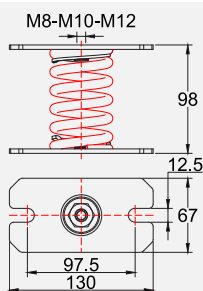
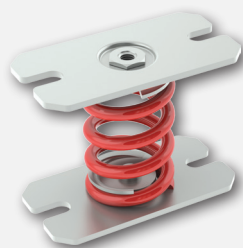
### BW - BV



### KW - KV



### PPW - PPV

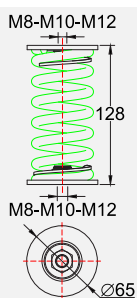


| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | BW 02  | 0.29        | 0.5  |
| 2  | BW 04  | 0.32        | 1.0  |
| 3  | BW 05  | 0.34        | 1.6  |
| 4  | BW 06  | 0.37        | 2.1  |
| 5  | BW 08  | 0.41        | 2.8  |
| 6  | BW 09  | 0.45        | 3.9  |
| 7  | BW 12  | 0.48        | 5.0  |
| 8  | BV 14  | 0.53        | 6.3  |
| 9  | BV 20  | 0.52        | 7.5  |
| 10 | BV 22  | 0.63        | 9.6  |
| 11 | BV 30  | 0.58        | 11.8 |
| 12 | BV 300 | 0.64        | 13.4 |
| 13 | BV 301 | 0.58        | 15.0 |
| 14 | BV 305 | 0.70        | 16.5 |
| 15 | BV 31  | 0.75        | 18.0 |
| 16 | BV 33  | 0.84        | 20.0 |
| 17 | BV 45  | 0.93        | 22.5 |
| 18 | BV 47  | 0.94        | 25.0 |
| 19 | BV 48  | 0.95        | 27.0 |
| 20 | BV 50  | 0.88        | 29.0 |
| 21 | BV 501 | 1.04        | 31.5 |
| 22 | BV 510 | 1.12        | 34.0 |
| 23 | BV 51  | 1.13        | 37.0 |
| 24 | BV 53  | 0.93        | 40.0 |
| 25 | BV 55  | 1.03        | 43.0 |

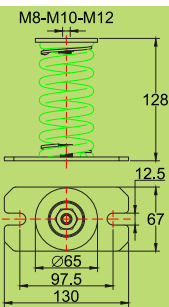
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | KW 02  | 0.53        | 0.5  |
| 2  | KW 04  | 0.56        | 1.0  |
| 3  | KW 05  | 0.58        | 1.6  |
| 4  | KW 06  | 0.61        | 2.1  |
| 5  | KW 08  | 0.65        | 2.8  |
| 6  | KW 09  | 0.69        | 3.9  |
| 7  | KW 12  | 0.72        | 5.0  |
| 8  | KV 14  | 0.77        | 6.3  |
| 9  | KV 20  | 0.76        | 7.5  |
| 10 | KV 22  | 0.87        | 9.6  |
| 11 | KV 30  | 0.82        | 11.8 |
| 12 | KV 300 | 0.87        | 13.4 |
| 13 | KV 301 | 0.82        | 15.0 |
| 14 | KV 305 | 0.94        | 16.5 |
| 15 | KV 31  | 0.87        | 18.0 |
| 16 | KV 33  | 0.97        | 20.0 |
| 17 | KV 45  | 1.06        | 22.5 |
| 18 | KV 47  | 1.08        | 25.0 |
| 19 | KV 48  | 1.08        | 27.0 |
| 20 | KV 50  | 1.01        | 29.0 |
| 21 | KV 501 | 1.17        | 31.5 |
| 22 | KV 510 | 1.26        | 34.0 |
| 23 | KV 51  | 1.26        | 37.0 |
| 24 | KV 53  | 1.06        | 40.0 |
| 25 | KV 55  | 1.16        | 43.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | PPW 02  | 0.68        | 0.5  |
| 2  | PPW 04  | 0.71        | 1.0  |
| 3  | PPW 05  | 0.73        | 1.6  |
| 4  | PPW 06  | 0.76        | 2.1  |
| 5  | PPW 08  | 0.80        | 2.8  |
| 6  | PPW 09  | 0.84        | 3.9  |
| 7  | PPW 12  | 0.86        | 5.0  |
| 8  | PPV 14  | 0.92        | 6.3  |
| 9  | PPV 20  | 0.91        | 7.5  |
| 10 | PPV 22  | 1.02        | 9.6  |
| 11 | PPV 30  | 0.96        | 11.8 |
| 12 | PPV 300 | 1.02        | 13.4 |
| 13 | PPV 301 | 0.97        | 15.0 |
| 14 | PPV 305 | 1.08        | 16.5 |
| 15 | PPV 31  | 1.03        | 18.0 |
| 16 | PPV 33  | 1.12        | 20.0 |
| 17 | PPV 45  | 1.21        | 22.5 |
| 18 | PPV 47  | 1.23        | 25.0 |
| 19 | PPV 48  | 1.23        | 27.0 |
| 20 | PPV 50  | 1.16        | 29.0 |
| 21 | PPV 501 | 1.32        | 31.5 |
| 22 | PPV 510 | 1.41        | 34.0 |
| 23 | PPV 51  | 1.41        | 37.0 |
| 24 | PPV 53  | 1.21        | 40.0 |
| 25 | PPV 55  | 1.31        | 43.0 |

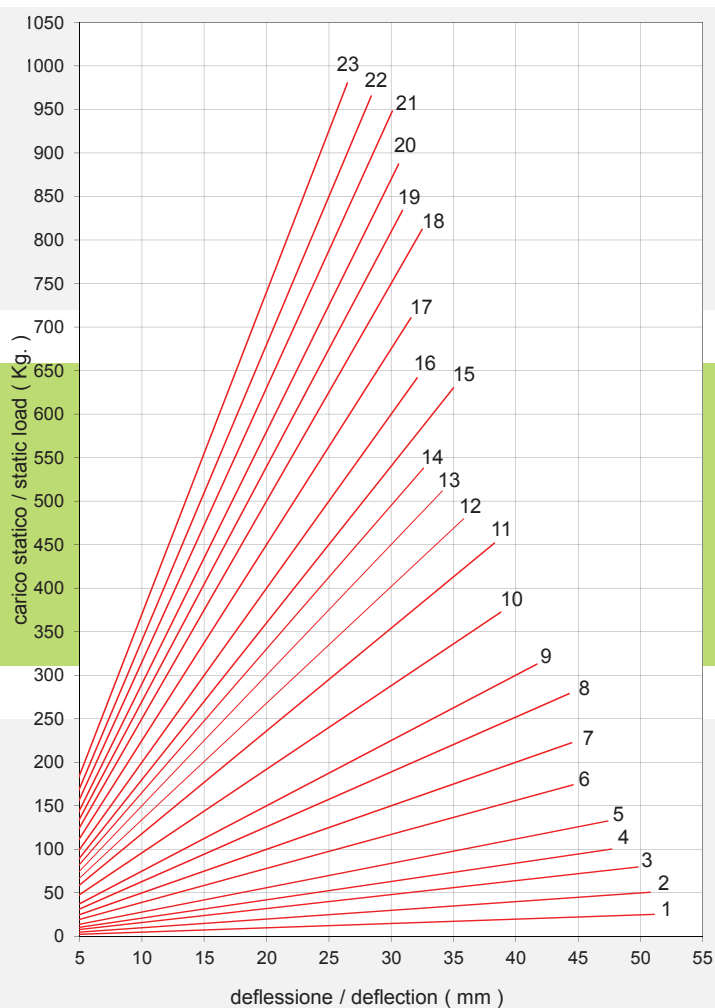
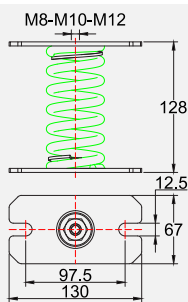
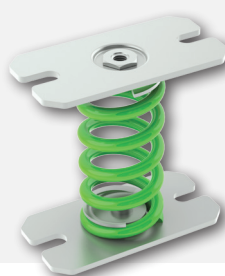
## BWH - BVH



## KWH - KVH



## PPWH - PPVH



| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | BWH 02  | 0.47        | 0.5  |
| 2  | BWH 04  | 0.54        | 1.0  |
| 3  | BWH 05  | 0.62        | 1.6  |
| 4  | BWH 06  | 0.63        | 2.1  |
| 5  | BWH 08  | 0.68        | 2.8  |
| 6  | BWH 09  | 0.64        | 3.9  |
| 7  | BWH 12  | 0.69        | 5.0  |
| 8  | BVH 14  | 0.74        | 6.3  |
| 9  | BVH 20  | 0.81        | 7.5  |
| 10 | BVH 22  | 0.88        | 9.6  |
| 11 | BVH 30  | 0.85        | 11.8 |
| 12 | BVH 300 | 0.84        | 13.4 |
| 13 | BVH 301 | 1.14        | 15.0 |
| 14 | BVH 305 | 1.06        | 16.5 |
| 15 | BVH 31  | 1.24        | 18.0 |
| 16 | BVH 33  | 1.14        | 20.0 |
| 17 | BVH 45  | 1.14        | 22.5 |
| 18 | BVH 47  | 1.19        | 25.0 |
| 19 | BVH 48  | 1.29        | 27.0 |
| 20 | BVH 50  | 1.35        | 29.0 |
| 21 | BVH 501 | 1.25        | 31.5 |
| 22 | BVH 510 | 1.35        | 34.0 |
| 23 | BVH 51  | 1.45        | 37.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | KWH 02  | 0.62        | 0.5  |
| 2  | KWH 04  | 0.68        | 1.0  |
| 3  | KWH 05  | 0.77        | 1.6  |
| 4  | KWH 06  | 0.77        | 2.1  |
| 5  | KWH 08  | 0.83        | 2.8  |
| 6  | KWH 09  | 0.78        | 3.9  |
| 7  | KWH 12  | 0.83        | 5.0  |
| 8  | KVH 14  | 0.88        | 6.3  |
| 9  | KVH 20  | 0.95        | 7.5  |
| 10 | KVH 22  | 1.02        | 9.6  |
| 11 | KVH 30  | 0.99        | 11.8 |
| 12 | KVH 300 | 0.98        | 13.4 |
| 13 | KVH 301 | 1.28        | 15.0 |
| 14 | KVH 305 | 1.21        | 16.5 |
| 15 | KVH 31  | 1.38        | 18.0 |
| 16 | KVH 33  | 1.28        | 20.0 |
| 17 | KVH 45  | 1.28        | 22.5 |
| 18 | KVH 47  | 1.33        | 25.0 |
| 19 | KVH 48  | 1.43        | 27.0 |
| 20 | KVH 50  | 1.49        | 29.0 |
| 21 | KVH 501 | 1.39        | 31.5 |
| 22 | KVH 510 | 1.49        | 34.0 |
| 23 | KVH 51  | 1.59        | 37.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | PPWH 02  | 0.76        | 0.5  |
| 2  | PPWH 04  | 0.83        | 1.0  |
| 3  | PPWH 05  | 0.91        | 1.6  |
| 4  | PPWH 06  | 0.92        | 2.1  |
| 5  | PPWH 08  | 0.97        | 2.8  |
| 6  | PPWH 09  | 0.93        | 3.9  |
| 7  | PPWH 12  | 0.98        | 5.0  |
| 8  | PPVH 14  | 1.03        | 6.3  |
| 9  | PPVH 20  | 1.10        | 7.5  |
| 10 | PPVH 22  | 1.17        | 9.6  |
| 11 | PPVH 30  | 1.14        | 11.8 |
| 12 | PPVH 300 | 1.13        | 13.4 |
| 13 | PPVH 301 | 1.43        | 15.0 |
| 14 | PPVH 305 | 1.35        | 16.5 |
| 15 | PPVH 31  | 1.53        | 18.0 |
| 16 | PPVH 33  | 1.43        | 20.0 |
| 17 | PPVH 45  | 1.43        | 22.5 |
| 18 | PPVH 47  | 1.48        | 25.0 |
| 19 | PPVH 48  | 1.58        | 27.0 |
| 20 | PPVH 50  | 1.65        | 29.0 |
| 21 | PPVH 501 | 1.54        | 31.5 |
| 22 | PPVH 510 | 1.64        | 34.0 |
| 23 | PPVH 51  | 1.75        | 37.0 |



# **SERIE MNa – PMNa**

## ***MNa – PMNa SERIES***



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.*

#### CARATTERISTICHE COSTRUTTIVE

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- La molla, alloggiata all'interno delle placche, viene bloccata mediante l'applicazione di adesivi speciali.
- Placche formate da dischi in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, rivestiti in elastomero termoplastico con elevata resistenza alla lacerazione, all'invecchiamento atmosferico, all'ozono, ai detergenti e ai raggi UV.
- La superficie delle placche presenta rilievi deformabili che consentono all'antivibrante caricato di stazionare per attrito e allo stesso tempo riducono la trasmissione di rumori.
- Placche colorate per un'immediata identificazione del modello installato.

#### A RICHIESTA

- Verniciatura della molla a polvere poliestere, colori secondo nostra tabella RAL.

#### MANUFACTURING CHARACTERISTICS

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cataphoretic treatment.
- The spring, housed inside the plates, is blocked by applying special adhesives.
- Plates made of UNI EN 10111 DD13 steel discs, galvanized according to UNI ISO 2081 Fe / Zn 12c1A, coated in thermoplastic elastomer with high resistance to tearing, atmospheric aging, ozone, detergents and UV rays.
- The surface of the plates has deformable reliefs that allow the loaded anti-vibration mount to be stationary by friction and at the same time reduce the transmission of noise.
- Colored plates for immediate identification of the model installed.

#### ON REQUEST

- Polyester powder coating of the spring, colors according to our RAL chart.

#### RESISTENTE ALLA FORZA DEL VENTO

Antivibrante telescopico BREVETTATO consente, una volta caricato, di aumentare la resistenza assiale alle spinte dovute all'azione del vento.

#### WIND RESISTANT

*PATENTED* telescopic anti-vibration mounts that allows, once loaded, to increase the axial resistance to thrusts due to the action of the wind.

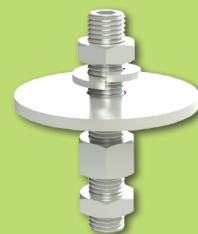


#### ACCESSORI

- Martinetto, in acciaio zincato o inox AISI 316, per la registrazione della quota macchina.

#### ACCESSORIES

- Jack in galvanized steel or in stainless steel AISI 316, to facilitate the registration of the machine level.



| CODE          | DESCRIPTION | SUITABLE FOR SERIES |
|---------------|-------------|---------------------|
| 0000MRM8/0000 | jack M8     | PMNa                |
| 0000MRM10/000 | jack M10    | PMNa                |





### SERIE MNa

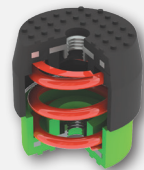
#### ANCORAGGIO CON VITI

Le placche sono dotate di fori filettati M8 o M10 per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra, disponibili anche in versione foro passante diam. 9 o 11 mm.

### MNa SERIES

#### ANCHORING WITH SCREWS

The plates are equipped with M8 or M10 threaded holes for anchoring the anti-vibration mount to the machine base and / or to the ground, also available in a through hole version diam. 9 or 11 mm.



### SERIE PMNa

#### ANCORAGGIO A TERRA CON PIASTRA

Le placche sono dotate di filettatura M8 o M10 per l'ancoraggio alla piastra base e nella parte superiore al basamento della macchina.

### PMNa SERIES

#### GROUND ANCHORING WITH PLATE

The plates are equipped with M8 or M10 threads for anchoring to the base plate and at the top to the machine base.

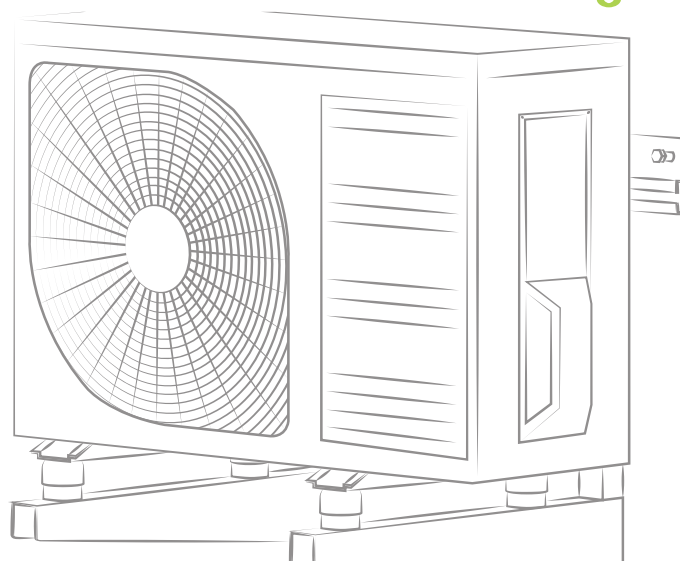


### PER INSTALLATORI

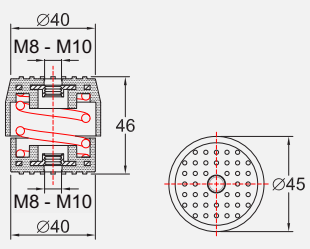
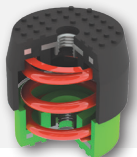
- Le serie MNa e PMNa sono disponibili in comodi kit colorati in base al peso della macchina da isolare.
- All'interno di ogni confezione è possibile trovare un kit di viti, rondelle e dadi e le istruzioni per l'installazione.

### FOR INSTALLERS

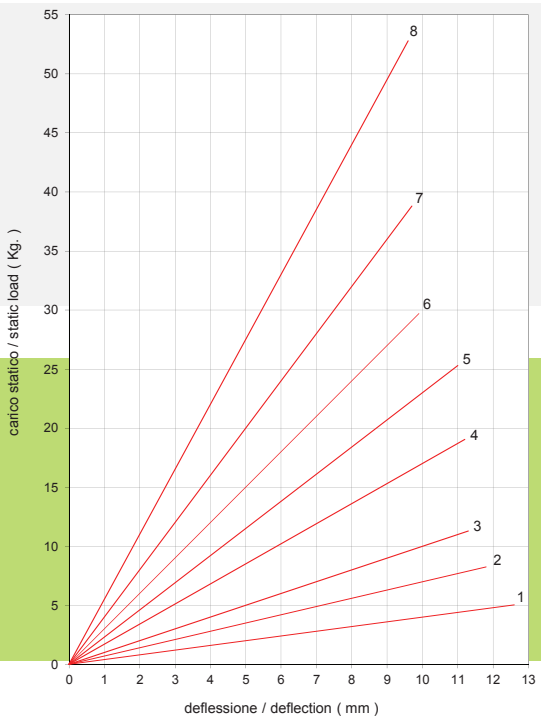
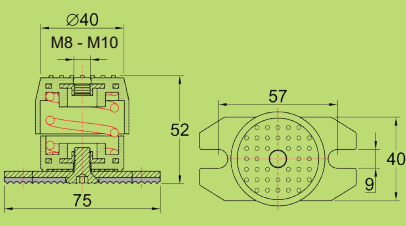
- The MNa and PMNa series are available in convenient colored kits according to the weight of the machine to be insulated.
- Inside each package you can find a kit of screws, washers and nuts and instructions for installation.



MNaZc - MNaXc



PMNaZc - PMNaXc



1. MNaZc 0



2. MNaZc 1



3. MNaZc 2



4. MNaZc 3



5. MNaZc 4



6. MNaZc 5



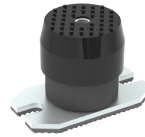
7. MNaZc 8



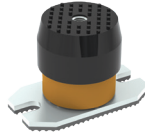
8. MNaXc 10



1. PMNaZc 0



2. PMNaZc 1



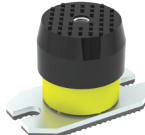
3. PMNaZc 2



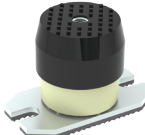
4. PMNaZc 3



5. PMNaZc 4



6. PMNaZc 5



7. PMNaZc 8



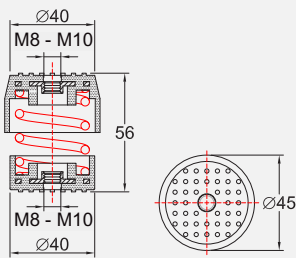
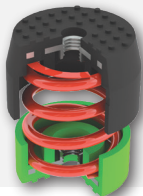
8. PMNaXc 10



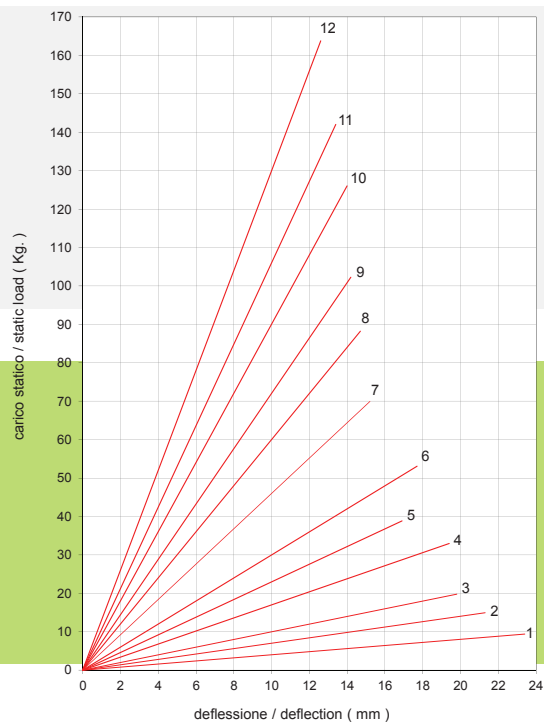
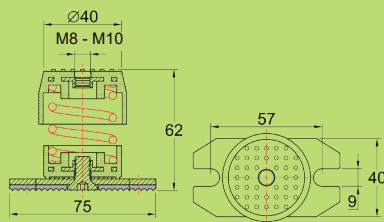
| N. | MODEL    | WEIGHT (kg) | k   |
|----|----------|-------------|-----|
| 1  | MNaZc 0  | 0.07        | 0.4 |
| 2  | MNaZc 1  | 0.07        | 0.7 |
| 3  | MNaZc 2  | 0.07        | 1.0 |
| 4  | MNaZc 3  | 0.08        | 1.7 |
| 5  | MNaZc 4  | 0.08        | 2.3 |
| 6  | MNaZc 5  | 0.09        | 3.0 |
| 7  | MNaZc 8  | 0.09        | 4.0 |
| 8  | MNaXc 10 | 0.09        | 5.5 |

| N. | MODEL     | WEIGHT (kg) | k   |
|----|-----------|-------------|-----|
| 1  | PMNaZc 0  | 0.14        | 0.4 |
| 2  | PMNaZc 1  | 0.15        | 0.7 |
| 3  | PMNaZc 2  | 0.15        | 1.0 |
| 4  | PMNaZc 3  | 0.15        | 1.7 |
| 5  | PMNaZc 4  | 0.15        | 2.3 |
| 6  | PMNaZc 5  | 0.16        | 3.0 |
| 7  | PMNaZc 8  | 0.16        | 4.0 |
| 8  | PMNaXc 10 | 0.16        | 5.5 |

MNaZb - MNaXb



PMNaZb - PMNaXb



1. MNaZb 0



2. MNaZb 1



3. MNaZb 2



4. MNaZb 3



5. MNaZb 4



6. MNaZb 5



7. MNaZb 8



8. MNaXb 10



9. MNaXb 101



10. MNaXb 11



11. MNaXb 12



12. MNaXb 13



1. PMNaZb 0



2. PMNaZb 1



3. PMNaZb 2



4. PMNaZb 3



5. PMNaZb 4



6. PMNaZb 5



7. PMNaZb 8



8. PMNaXb 10



9. PMNaXb 101



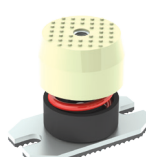
10. PMNaXb 11



11. PMNaXb 12



12. PMNaXb 13



| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | MNaZb 0   | 0.06        | 0.4  |
| 2  | MNaZb 1   | 0.07        | 0.7  |
| 3  | MNaZb 2   | 0.07        | 1.0  |
| 4  | MNaZb 3   | 0.07        | 1.7  |
| 5  | MNaZb 4   | 0.08        | 2.3  |
| 6  | MNaZb 5   | 0.08        | 3.0  |
| 7  | MNaZb 8   | 0.10        | 4.6  |
| 8  | MNaXb 10  | 0.10        | 6.0  |
| 9  | MNaXb 101 | 0.10        | 7.2  |
| 10 | MNaXb 11  | 0.14        | 9.0  |
| 11 | MNaXb 12  | 0.11        | 10.6 |
| 12 | MNaXb 13  | 0.12        | 13.0 |

| N. | MODEL      | WEIGHT (kg) | k    |
|----|------------|-------------|------|
| 1  | PMNaZb 0   | 0.14        | 0.4  |
| 2  | PMNaZb 1   | 0.14        | 0.7  |
| 3  | PMNaZb 2   | 0.15        | 1.0  |
| 4  | PMNaZb 3   | 0.16        | 1.7  |
| 5  | PMNaZb 4   | 0.16        | 2.3  |
| 6  | PMNaZb 5   | 0.16        | 3.0  |
| 7  | PMNaZb 8   | 0.18        | 4.6  |
| 8  | PMNaXb 10  | 0.17        | 6.0  |
| 9  | PMNaXb 101 | 0.18        | 7.2  |
| 10 | PMNaXb 11  | 0.21        | 9.0  |
| 11 | PMNaXb 12  | 0.19        | 10.6 |
| 12 | PMNaXb 13  | 0.20        | 13.0 |

# **SERIE J – Y – JY – JP – JYP** **J – Y – JY – JP – JYP SERIES**





## CARATTERISTICHE COSTRUTTIVE

### SERIE J - Y - JY

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Piastre in acciaio UNI EN 10111 DD13 da 4 mm di spessore, zincate secondo UNI ISO 2081 Fe/Zn 12c1A, contengono la molla.
- Dischi sagomati in acciaio disco in acciaio UNI EN 10111 DD13, zincati secondo UNI ISO 2081 Fe/Zn 12c1A, bloccano la molla alle piastre/dischi tramite bussole filettate.
- Bussola filettata di testa M8 consente il fissaggio dell'antivibrante alla macchina.
- Viti con dadi e rondelle bloccano l'elasticità della molla ed evitano oscillazioni della macchina durante i trasferimenti.
- Cuscinetti in gomma presentano rilievi deformabili antiscivolo che consentono all'antivibrante caricato di stazionare per attrito.

### SERIE JP - JYP

- Molla in acciaio armonico UNI EN 10270-1 SH con superficie protetta da trattamento cataforetico.
- Piastre in acciaio UNI EN 10111 DD13 da 4 mm di spessore, zincate secondo UNI ISO 2081 Fe/Zn 12c1A, contengono la molla.
- Bussole in acciaio zincato, collegate alle piastre, bloccano la molla.
- La bussola filettata di testa M12 consente il fissaggio dell'antivibrante alla macchina.
- Viti con dadi e rondelle bloccano l'elasticità della molla ed evitano oscillazioni della macchina durante i trasferimenti.
- Cuscinetti in gomma presentano rilievi deformabili antiscivolo che consentono all'antivibrante caricato di stazionare per attrito.

### A RICHIESTA

- Verniciatura della molla a polvere poliestere, colori secondo nostra tabella RAL.

### VITI BLOCCO MOLLA PER TRASPORTO

Antivibranti dotati di viti blocco molla che evitano le oscillazioni della macchina durante i trasferimenti.

### ACCESSORI

- Martinetto, in acciaio zincato o inox AISI 316, per la registrazione della quota macchina.

## MANUFACTURING CHARACTERISTICS

### J - Y - JY SERIES

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cataphoretic treatment.
- 4 mm thick UNI EN 10111 DD13 steel plates, galvanized according to UNI ISO 2081 Fe/Zn 12c1A, contain the spring.
- Steel shaped discs UNI EN 10111 DD13 steel disc, galvanized according to UNI ISO 2081 Fe/Zn 12c1A, lock the spring to the plates/discs by means of threaded bushes.
- M8 head threaded bush allows the fixing of the anti-vibration mount to the machine.
- Screws with nuts and washers block the elasticity of the spring and prevent oscillations of the machine during transfers.
- Rubber pads have non-slip deformable reliefs that allow the loaded anti-vibration mount to be stationary due to friction.

### JP - JYP SERIES

- Spring in harmonic steel UNI EN 10270-1 SH with surface protected by cataphoretic treatment.
- 4 mm thick UNI EN 10111 DD13 steel plates, galvanized according to UNI ISO 2081 Fe/Zn 12c1A, contain the spring.
- Galvanized steel bushes, connected to the plates, block the spring.
- The M12 threaded head bush allows the fixing of the anti-vibration mount to the machine.
- Screws with nuts and washers block the elasticity of the spring and prevent oscillations of the machine during transfers.
- Rubber pads have non-slip deformable reliefs that allow the loaded anti-vibration mount to be stationary due to friction.

### ON REQUEST

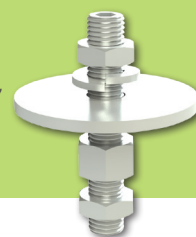
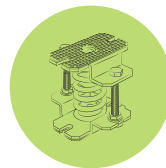
- Polyester powder coating of the spring, colors according to our RAL chart.

### SPRING LOCKING SCREWS FOR TRANSPORT

Anti-vibration mounts provided with spring locking screws that prevent the oscillations of the machine during transfers.

### ACCESSORIES

- Jack in galvanized steel or in stainless steel AISI 316, to facilitate the registration of the machine level.



#### SERIE J

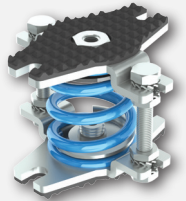
##### ANCORAGGIO A TERRA E ALLA MACCHINA CON PIASTRE

Le piastre sono dotate di 4 sedi: 2 per l'inserimento dei tiranti "blocca-molla" e 2 per l'ancoraggio dell'antivibrante al basamento della macchina e/o verso terra.

#### J SERIES

##### ANCHORING TO THE GROUND AND TO THE MACHINE WITH PLATES

The plates have 4 seats: 2 for the insertion of the "spring-locking" tie rods and 2 for anchoring of the anti-vibration mount to the base of the machine and / or to the ground.



#### SERIE Y

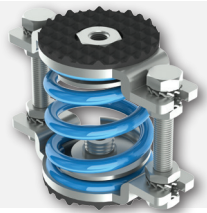
##### ANCORAGGIO CON VITI

Le piastre sono dotate di 2 cavità per l'inserimento dei tiranti "blocca-molla".

#### Y SERIES

##### ANCHORING WITH SCREWS

The plates are equipped with 2 cavities for inserting the "spring-locking" tie rods.



#### SERIE JY

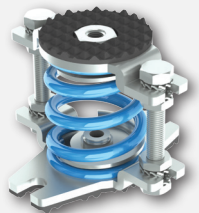
##### ANCORAGGIO A TERRA CON PIASTRA BASE

Piastra base dotata di 4 cavità, 2 per l'inserimento dei tiranti "blocca-molla" e 2 per l'ancoraggio dell'antivibrante verso terra. Piastra superiore dotata di 2 cavità per l'inserimento dei tiranti "blocca-molla".

#### JY SERIES

##### GROUND ANCHORING WITH BASE PLATE

Base plate equipped with 4 cavities, 2 for the insertion of the "spring-locking" tie rods and 2 for anchoring the anti-vibration mount to the ground. Upper plate equipped with 2 cavities for inserting the "spring-locking" tie rods.



#### SERIE JP

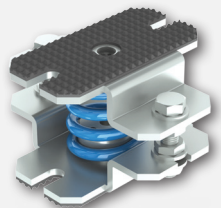
##### ANCORAGGIO A TERRA E ALLA MACCHINA CON PIASTRE

Le piastre sono dotate di 4 cavità: 2 per l'inserimento dei tiranti "blocca-molla" e 2 per l'ancoraggio dell'antivibrante al basamento della macchina o verso terra.

#### JP SERIES

##### ANCHORING TO THE GROUND AND TO THE MACHINE WITH PLATES

The plates are equipped with 4 cavities: 2 for inserting the "spring-locking" tie rods and 2 for anchoring of the anti-vibration mount to the base of the machine or to the ground.



#### SERIE JYP

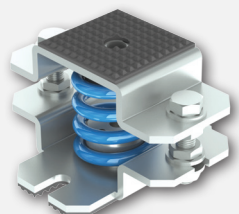
##### ANCORAGGIO A TERRA CON PIASTRA BASE

Piastra base dotata di 4 cavità, 2 per l'inserimento dei tiranti "blocca-molla" e 2 per l'ancoraggio dell'antivibrante verso terra. Piastra superiore dotata di 2 cavità per l'inserimento dei tiranti "blocca-molla".

#### JYP SERIES

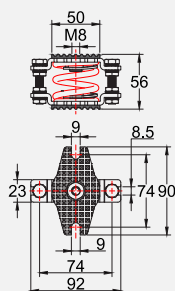
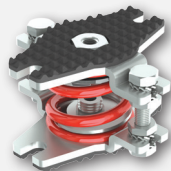
##### GROUND ANCHORING WITH BASE PLATE

Base plate equipped with 4 cavities, 2 for the insertion of the "spring-locking" tie rods and 2 for anchoring the anti-vibration mount to the ground. Upper plate equipped with 2 cavities for inserting the "spring-locking" tie rods.

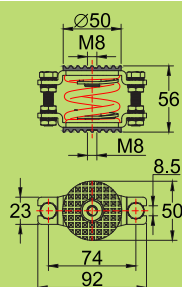


| CODE          | DESCRIPTION          | SUITABLE FOR SERIES |
|---------------|----------------------|---------------------|
| 0000MRM8/0000 | jack M8              | Y - JY              |
| 0000MRM10M8/0 | jack M10 reduced M8  | Y - JY              |
| 0000MRM12M8/0 | jack M12 reduced M8  | Y - JY              |
| 0000MRM16M12/ | jack M16 reduced M12 | JYP                 |

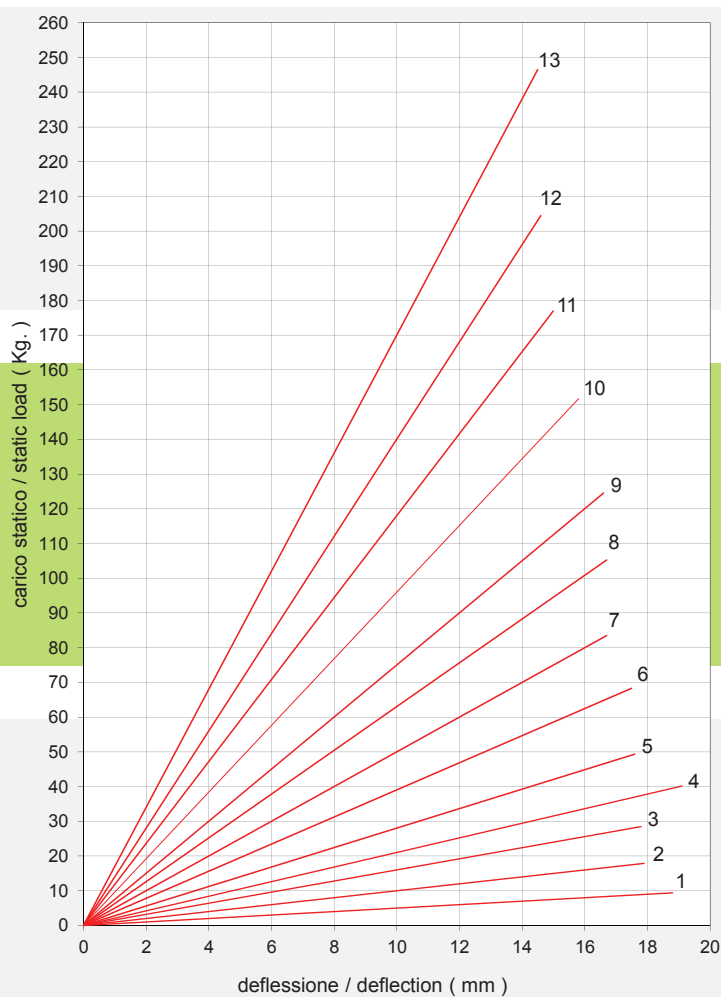
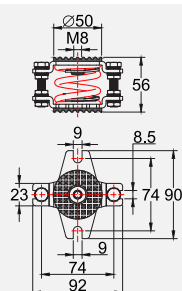
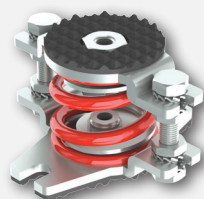
JFb



YFb



JYFb

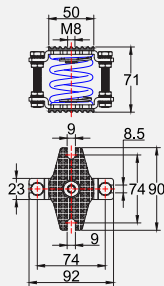


| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | JFb 1  | 0.41        | 0.5  |
| 2  | JFb 2  | 0.41        | 1.0  |
| 3  | JFb 4  | 0.42        | 1.6  |
| 4  | JFb 5  | 0.41        | 2.1  |
| 5  | JFb 8  | 0.43        | 2.8  |
| 6  | JFb 80 | 0.42        | 3.9  |
| 7  | JFb 9  | 0.45        | 5.0  |
| 8  | JFb 90 | 0.45        | 6.3  |
| 9  | JFb 10 | 0.46        | 7.5  |
| 10 | JFb 11 | 0.48        | 9.6  |
| 11 | JFb 12 | 0.48        | 11.8 |
| 12 | JFb 13 | 0.48        | 14.0 |
| 13 | JFb 14 | 0.49        | 17.0 |

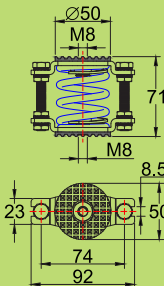
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | YFb 1  | 0.33        | 0.5  |
| 2  | YFb 2  | 0.34        | 1.0  |
| 3  | YFb 4  | 0.35        | 1.6  |
| 4  | YFb 5  | 0.33        | 2.1  |
| 5  | YFb 8  | 0.36        | 2.8  |
| 6  | YFb 80 | 0.34        | 3.9  |
| 7  | YFb 9  | 0.37        | 5.0  |
| 8  | YFb 90 | 0.37        | 6.3  |
| 9  | YFb 10 | 0.38        | 7.5  |
| 10 | YFb 11 | 0.39        | 9.6  |
| 11 | YFb 12 | 0.41        | 11.8 |
| 12 | YFb 13 | 0.40        | 14.0 |
| 13 | YFb 14 | 0.42        | 17.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | JYFb 1  | 0.37        | 0.5  |
| 2  | JYFb 2  | 0.38        | 1.0  |
| 3  | JYFb 4  | 0.39        | 1.6  |
| 4  | JYFb 5  | 0.37        | 2.1  |
| 5  | JYFb 8  | 0.40        | 2.8  |
| 6  | JYFb 80 | 0.38        | 3.9  |
| 7  | JYFb 9  | 0.41        | 5.0  |
| 8  | JYFb 90 | 0.41        | 6.3  |
| 9  | JYFb 10 | 0.42        | 7.5  |
| 10 | JYFb 11 | 0.43        | 9.6  |
| 11 | JYFb 12 | 0.45        | 11.8 |
| 12 | JYFb 13 | 0.44        | 14.0 |
| 13 | JYFb 14 | 0.46        | 17.0 |

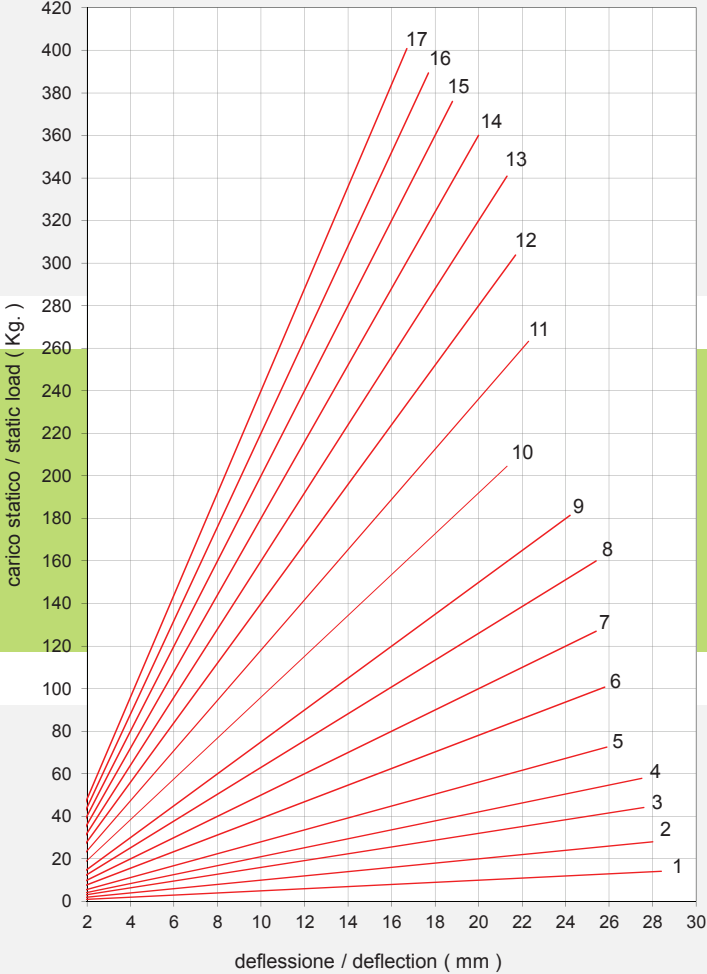
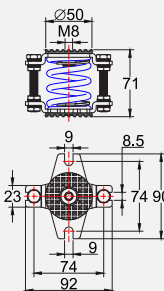
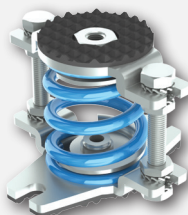
JFr



YFr



JYFr



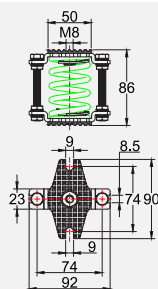
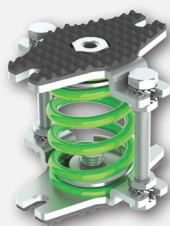
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | JFr 1   | 0.41        | 0.5  |
| 2  | JFr 2   | 0.42        | 1.0  |
| 3  | JFr 4   | 0.44        | 1.6  |
| 4  | JFr 5   | 0.44        | 2.1  |
| 5  | JFr 8   | 0.47        | 2.8  |
| 6  | JFr 80  | 0.46        | 3.9  |
| 7  | JFr 9   | 0.49        | 5.0  |
| 8  | JFr 90  | 0.49        | 6.3  |
| 9  | JFr 10  | 0.50        | 7.5  |
| 10 | JFr 11  | 0.51        | 9.6  |
| 11 | JFr 12  | 0.53        | 11.8 |
| 12 | JFr 13  | 0.54        | 14.0 |
| 13 | JFr 130 | 0.55        | 16.0 |
| 14 | JFr 14  | 0.55        | 18.0 |
| 15 | JFr 20  | 0.60        | 20.0 |
| 16 | JFr 22  | 0.59        | 22.0 |
| 17 | JFr 30  | 0.55        | 24.0 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | YFr 1   | 0.33        | 0.5  |
| 2  | YFr 2   | 0.34        | 1.0  |
| 3  | YFr 4   | 0.36        | 1.6  |
| 4  | YFr 5   | 0.36        | 2.1  |
| 5  | YFr 8   | 0.39        | 2.8  |
| 6  | YFr 80  | 0.39        | 3.9  |
| 7  | YFr 9   | 0.41        | 5.0  |
| 8  | YFr 90  | 0.41        | 6.3  |
| 9  | YFr 10  | 0.44        | 7.5  |
| 10 | YFr 11  | 0.44        | 9.6  |
| 11 | YFr 12  | 0.45        | 11.8 |
| 12 | YFr 13  | 0.46        | 14.0 |
| 13 | YFr 130 | 0.48        | 16.0 |
| 14 | YFr 14  | 0.47        | 18.0 |
| 15 | YFr 20  | 0.52        | 20.0 |
| 16 | YFr 22  | 0.52        | 22.0 |
| 17 | YFr 30  | 0.47        | 24.0 |

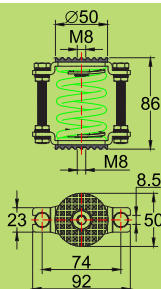
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | JYFr 1   | 0.38        | 0.5  |
| 2  | JYFr 2   | 0.39        | 1.0  |
| 3  | JYFr 4   | 0.41        | 1.6  |
| 4  | JYFr 5   | 0.41        | 2.1  |
| 5  | JYFr 8   | 0.44        | 2.8  |
| 6  | JYFr 80  | 0.44        | 3.9  |
| 7  | JYFr 9   | 0.46        | 5.0  |
| 8  | JYFr 90  | 0.46        | 6.3  |
| 9  | JYFr 10  | 0.47        | 7.5  |
| 10 | JYFr 11  | 0.49        | 9.6  |
| 11 | JYFr 12  | 0.50        | 11.8 |
| 12 | JYFr 13  | 0.51        | 14.0 |
| 13 | JYFr 130 | 0.53        | 16.0 |
| 14 | JYFr 14  | 0.52        | 18.0 |
| 15 | JYFr 20  | 0.57        | 20.0 |
| 16 | JYFr 22  | 0.57        | 22.0 |
| 17 | JYFr 30  | 0.52        | 24.0 |



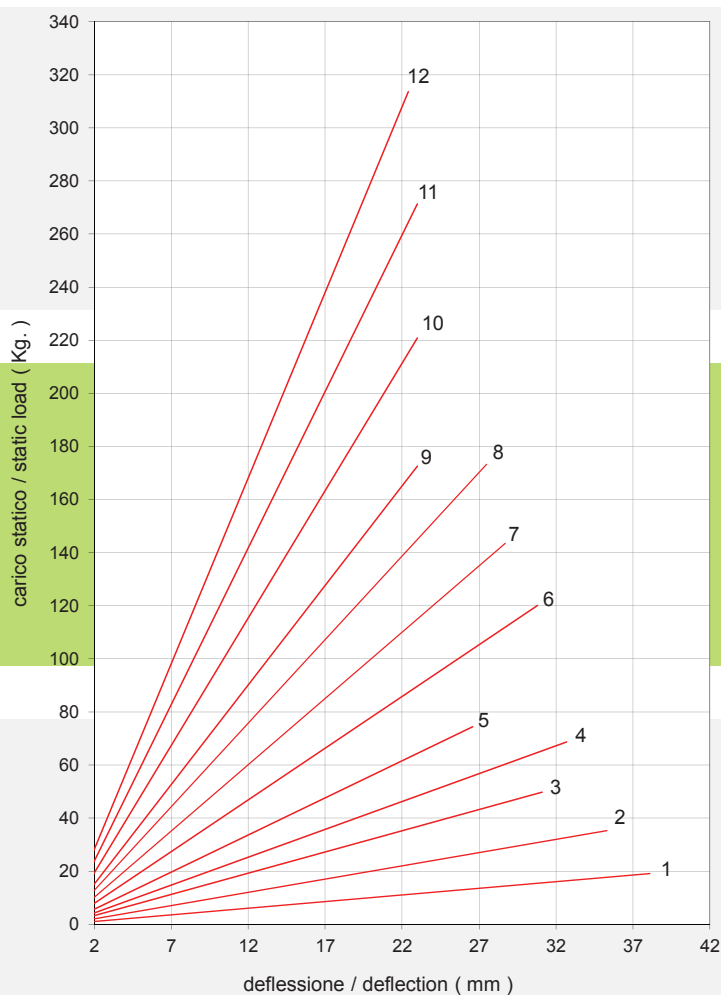
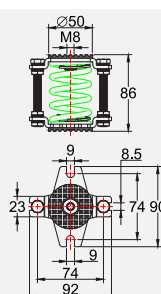
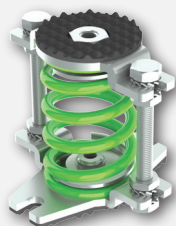
JF



YF



JYF

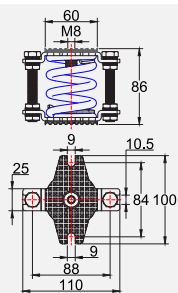
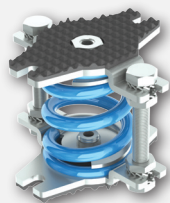


| N. | MODEL | WEIGHT (kg) | k    |
|----|-------|-------------|------|
| 1  | JF 1  | 0.43        | 0.5  |
| 2  | JF 2  | 0.44        | 1.0  |
| 3  | JF 4  | 0.48        | 1.6  |
| 4  | JF 5  | 0.51        | 2.1  |
| 5  | JF 8  | 0.54        | 2.8  |
| 6  | JF 80 | 0.54        | 3.9  |
| 7  | JF 9  | 0.54        | 5.0  |
| 8  | JF 90 | 0.55        | 6.3  |
| 9  | JF 10 | 0.63        | 7.5  |
| 10 | JF 11 | 0.63        | 9.6  |
| 11 | JF 12 | 0.63        | 11.8 |
| 12 | JF 13 | 0.66        | 14.0 |

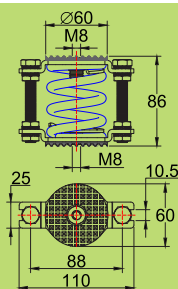
| N. | MODEL | WEIGHT (kg) | k    |
|----|-------|-------------|------|
| 1  | YF 1  | 0.36        | 0.5  |
| 2  | YF 2  | 0.37        | 1.0  |
| 3  | YF 4  | 0.40        | 1.6  |
| 4  | YF 5  | 0.44        | 2.1  |
| 5  | YF 8  | 0.46        | 2.8  |
| 6  | YF 80 | 0.46        | 3.9  |
| 7  | YF 9  | 0.46        | 5.0  |
| 8  | YF 90 | 0.48        | 6.3  |
| 9  | YF 10 | 0.55        | 7.5  |
| 10 | YF 11 | 0.56        | 9.6  |
| 11 | YF 12 | 0.55        | 11.8 |
| 12 | YF 13 | 0.59        | 14.0 |

| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | JYF 1  | 0.40        | 0.5  |
| 2  | JYF 2  | 0.41        | 1.0  |
| 3  | JYF 4  | 0.44        | 1.6  |
| 4  | JYF 5  | 0.48        | 2.1  |
| 5  | JYF 8  | 0.50        | 2.8  |
| 6  | JYF 80 | 0.50        | 3.9  |
| 7  | JYF 9  | 0.50        | 5.0  |
| 8  | JYF 90 | 0.52        | 6.3  |
| 9  | JYF 10 | 0.59        | 7.5  |
| 10 | JYF 11 | 0.60        | 9.6  |
| 11 | JYF 12 | 0.59        | 11.8 |
| 12 | JYF 13 | 0.63        | 14.0 |

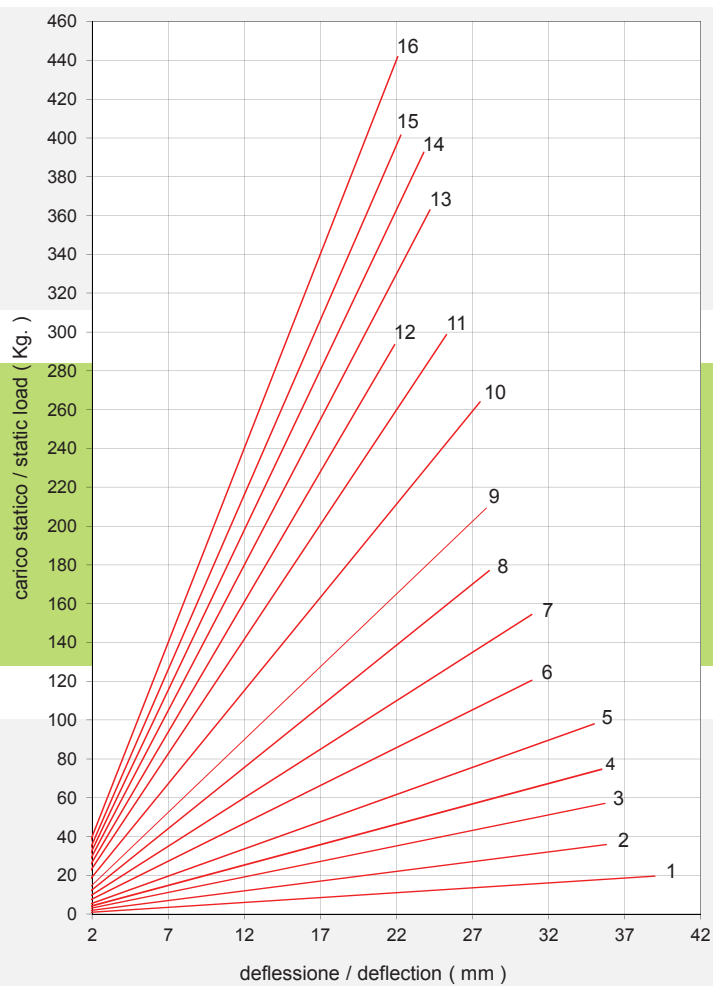
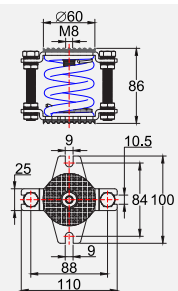
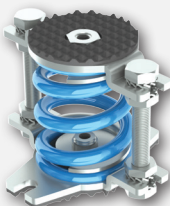
## JWr - JVr



## YWr - YVr



## JYWr - JYVr

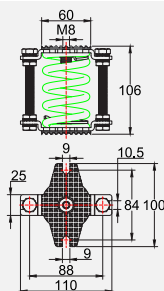
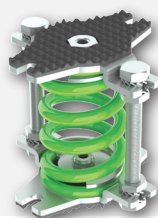


| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | JWr 02  | 0.63        | 0.5  |
| 2  | JWr 04  | 0.64        | 1.0  |
| 3  | JWr 05  | 0.65        | 1.6  |
| 4  | JWr 06  | 0.74        | 2.1  |
| 5  | JWr 08  | 0.68        | 2.8  |
| 6  | JWr 09  | 0.72        | 3.9  |
| 7  | JWr 12  | 0.74        | 5.0  |
| 8  | JVr 14  | 0.78        | 6.3  |
| 9  | JVr 20  | 0.81        | 7.5  |
| 10 | JVr 22  | 0.82        | 9.6  |
| 11 | JVr 30  | 0.86        | 11.8 |
| 12 | JVr 300 | 0.89        | 13.4 |
| 13 | JVr 301 | 0.89        | 15.0 |
| 14 | JVr 305 | 0.90        | 16.5 |
| 15 | JVr 31  | 0.92        | 18.0 |
| 16 | JVr 33  | 0.88        | 20.0 |

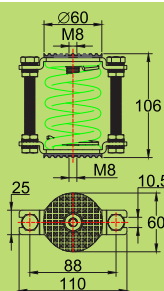
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | YWr 02  | 0.55        | 0.5  |
| 2  | YWr 04  | 0.56        | 1.0  |
| 3  | YWr 05  | 0.57        | 1.6  |
| 4  | YWr 06  | 0.65        | 2.1  |
| 5  | YWr 08  | 0.60        | 2.8  |
| 6  | YWr 09  | 0.63        | 3.9  |
| 7  | YWr 12  | 0.66        | 5.0  |
| 8  | YVr 14  | 0.70        | 6.3  |
| 9  | YVr 20  | 0.72        | 7.5  |
| 10 | YVr 22  | 0.74        | 9.6  |
| 11 | YVr 30  | 0.77        | 11.8 |
| 12 | YVr 300 | 0.78        | 13.4 |
| 13 | YVr 301 | 0.81        | 15.0 |
| 14 | YVr 305 | 0.82        | 16.5 |
| 15 | YVr 31  | 0.84        | 18.0 |
| 16 | YVr 33  | 0.80        | 20.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | JYWr 02  | 0.59        | 0.5  |
| 2  | JYWr 04  | 0.60        | 1.0  |
| 3  | JYWr 05  | 0.61        | 1.6  |
| 4  | JYWr 06  | 0.69        | 2.1  |
| 5  | JYWr 08  | 0.64        | 2.8  |
| 6  | JYWr 09  | 0.67        | 3.9  |
| 7  | JYWr 12  | 0.70        | 5.0  |
| 8  | JYVr 14  | 0.73        | 6.3  |
| 9  | JYVr 20  | 0.76        | 7.5  |
| 10 | JYVr 22  | 0.78        | 9.6  |
| 11 | JYVr 30  | 0.81        | 11.8 |
| 12 | JYVr 300 | 0.82        | 13.4 |
| 13 | JYVr 301 | 0.84        | 15.0 |
| 14 | JYVr 305 | 0.86        | 16.5 |
| 15 | JYVr 31  | 0.87        | 18.0 |
| 16 | JYVr 33  | 0.83        | 20.0 |

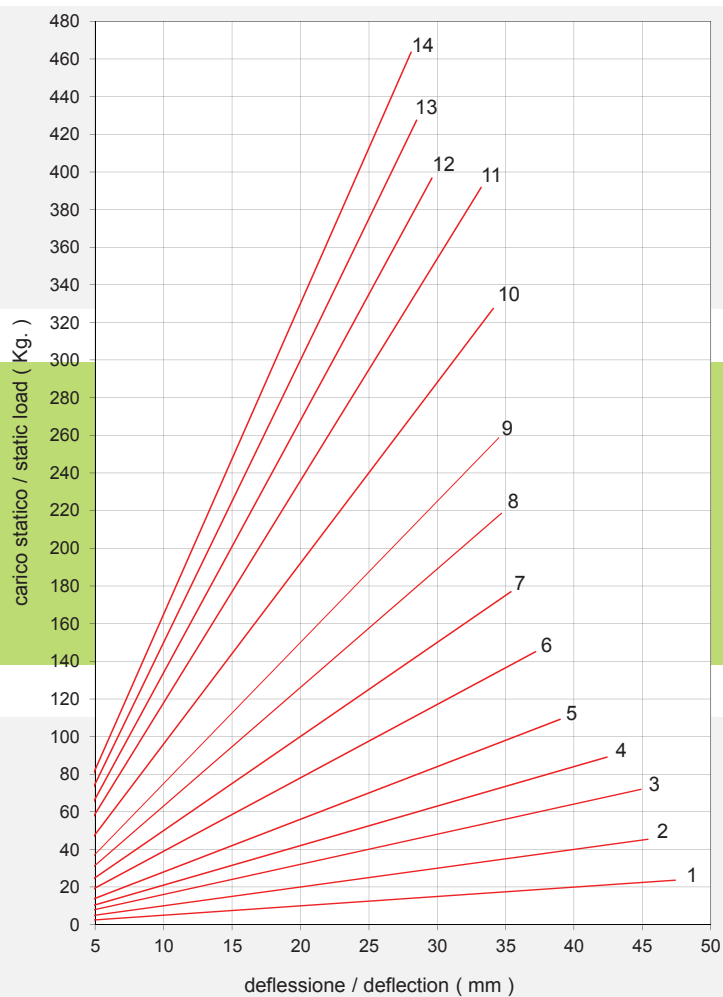
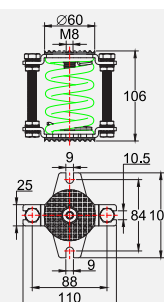
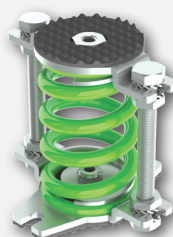
### JW - JV



### YW - YV



### JYW - JYV

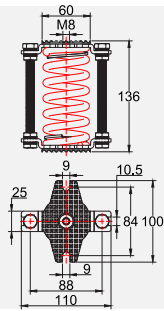
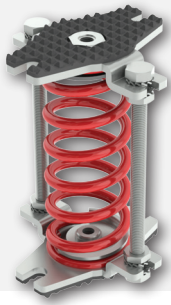


| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | JW 02  | 0.69        | 0.5  |
| 2  | JW 04  | 0.71        | 1.0  |
| 3  | JW 05  | 0.74        | 1.6  |
| 4  | JW 06  | 0.77        | 2.1  |
| 5  | JW 08  | 0.81        | 2.8  |
| 6  | JW 09  | 0.85        | 3.9  |
| 7  | JW 12  | 0.87        | 5.0  |
| 8  | JV 14  | 0.92        | 6.3  |
| 9  | JV 20  | 0.92        | 7.5  |
| 10 | JV 22  | 1.09        | 9.6  |
| 11 | JV 30  | 0.97        | 11.8 |
| 12 | JV 300 | 1.03        | 13.4 |
| 13 | JV 301 | 0.98        | 15.0 |
| 14 | JV 305 | 1.10        | 16.5 |

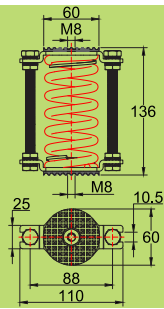
| N. | MODEL  | WEIGHT (kg) | k    |
|----|--------|-------------|------|
| 1  | YW 02  | 0.60        | 0.5  |
| 2  | YW 04  | 0.63        | 1.0  |
| 3  | YW 05  | 0.65        | 1.6  |
| 4  | YW 06  | 0.68        | 2.1  |
| 5  | YW 08  | 0.72        | 2.8  |
| 6  | YW 09  | 0.76        | 3.9  |
| 7  | YW 12  | 0.79        | 5.0  |
| 8  | YW 14  | 0.84        | 6.3  |
| 9  | YV 20  | 0.83        | 7.5  |
| 10 | YV 22  | 0.94        | 9.6  |
| 11 | YV 30  | 0.88        | 11.8 |
| 12 | YV 300 | 0.94        | 13.4 |
| 13 | YV 301 | 0.89        | 15.0 |
| 14 | YV 305 | 1.01        | 16.5 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | JYW 02  | 0.64        | 0.5  |
| 2  | JYW 04  | 0.67        | 1.0  |
| 3  | JYW 05  | 0.69        | 1.6  |
| 4  | JYW 06  | 0.72        | 2.1  |
| 5  | JYW 08  | 0.76        | 2.8  |
| 6  | JYW 09  | 0.80        | 3.9  |
| 7  | JYW 12  | 0.83        | 5.0  |
| 8  | JYV 14  | 0.88        | 6.3  |
| 9  | JYV 20  | 0.87        | 7.5  |
| 10 | JYV 22  | 0.98        | 9.6  |
| 11 | JYV 30  | 0.93        | 11.8 |
| 12 | JYV 300 | 0.99        | 13.4 |
| 13 | JYV 301 | 0.93        | 15.0 |
| 14 | JYV 305 | 1.05        | 16.5 |

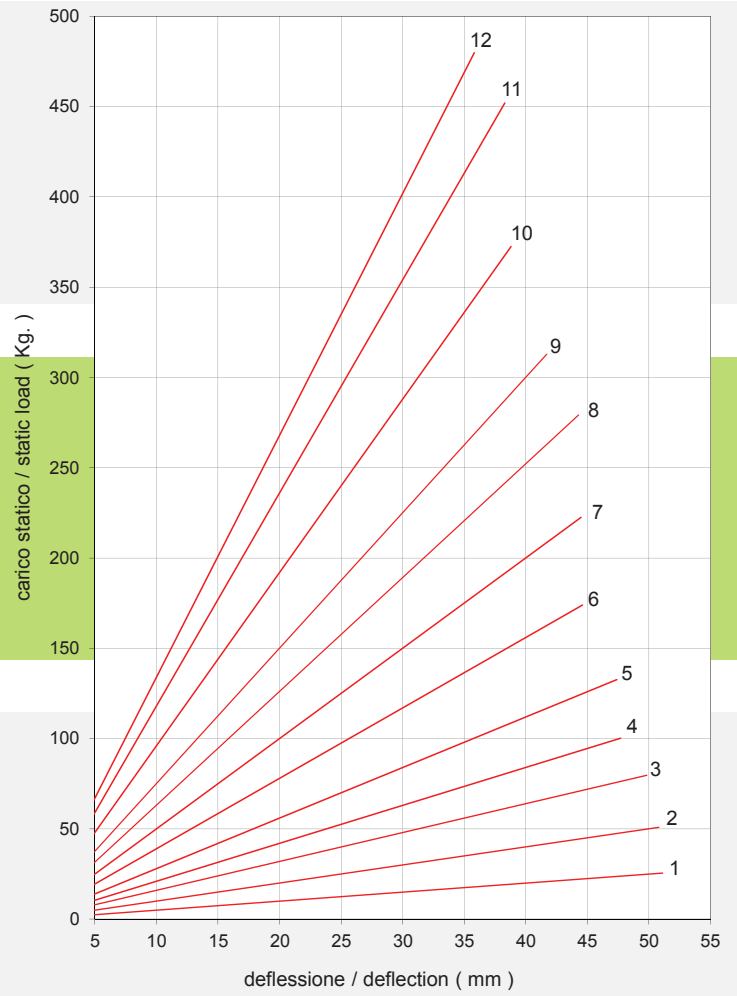
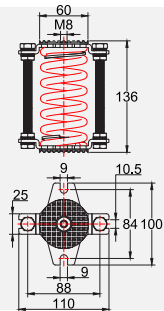
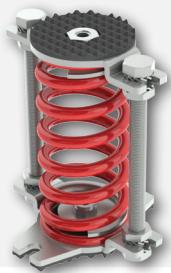
JWH - JVH



YWH - YVH



JYWH - JYVH



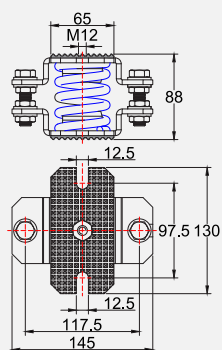
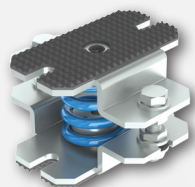
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | JWH 02  | 0.69        | 0.5  |
| 2  | JWH 04  | 0.71        | 1.0  |
| 3  | JWH 05  | 0.74        | 1.6  |
| 4  | JWH 06  | 0.77        | 2.1  |
| 5  | JWH 08  | 0.81        | 2.8  |
| 6  | JWH 09  | 0.85        | 3.9  |
| 7  | JWH 12  | 0.87        | 5.0  |
| 8  | JVH 14  | 0.92        | 6.3  |
| 9  | JVH 20  | 0.92        | 7.5  |
| 10 | JVH 22  | 1.03        | 9.6  |
| 11 | JVH 30  | 0.97        | 11.8 |
| 12 | JVH 300 | 1.03        | 13.4 |

| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | YWH 02  | 0.63        | 0.5  |
| 2  | YWH 04  | 0.68        | 1.0  |
| 3  | YWH 05  | 0.72        | 1.6  |
| 4  | YWH 06  | 0.76        | 2.1  |
| 5  | YWH 08  | 0.79        | 2.8  |
| 6  | YWH 09  | 0.84        | 3.9  |
| 7  | YWH 12  | 0.83        | 5.0  |
| 8  | YVH 14  | 0.94        | 6.3  |
| 9  | YVH 20  | 0.88        | 7.5  |
| 10 | YVH 22  | 0.94        | 9.6  |
| 11 | YVH 30  | 0.89        | 11.8 |
| 12 | YVH 300 | 1.01        | 13.4 |

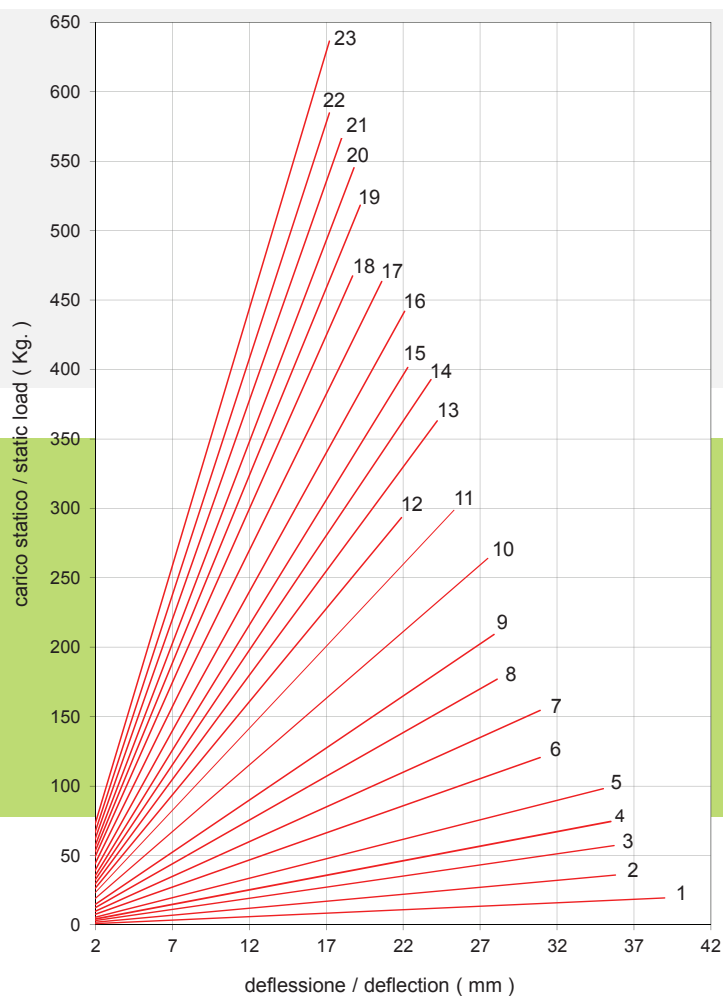
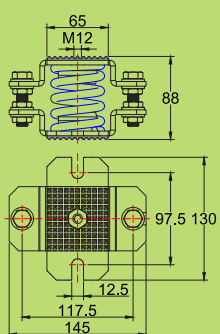
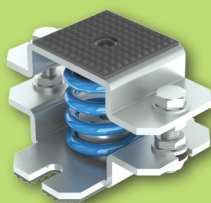
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | JYWH 02  | 0.71        | 0.5  |
| 2  | JYWH 04  | 0.77        | 1.0  |
| 3  | JYWH 05  | 0.86        | 1.6  |
| 4  | JYWH 06  | 0.86        | 2.1  |
| 5  | JYWH 08  | 0.92        | 2.8  |
| 6  | JYWH 09  | 0.88        | 3.9  |
| 7  | JYWH 12  | 0.92        | 5.0  |
| 8  | JYVH 14  | 0.97        | 6.3  |
| 9  | JYVH 20  | 1.04        | 7.5  |
| 10 | JYVH 22  | 1.11        | 9.6  |
| 11 | JYVH 30  | 1.08        | 11.8 |
| 12 | JYVH 300 | 1.07        | 13.4 |



### JPWr - JPVr



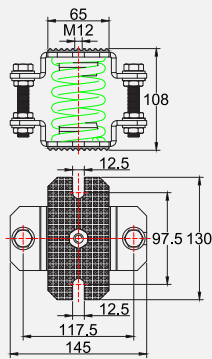
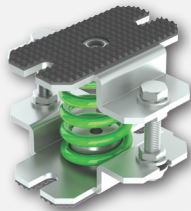
### JYPWr - JYPVr



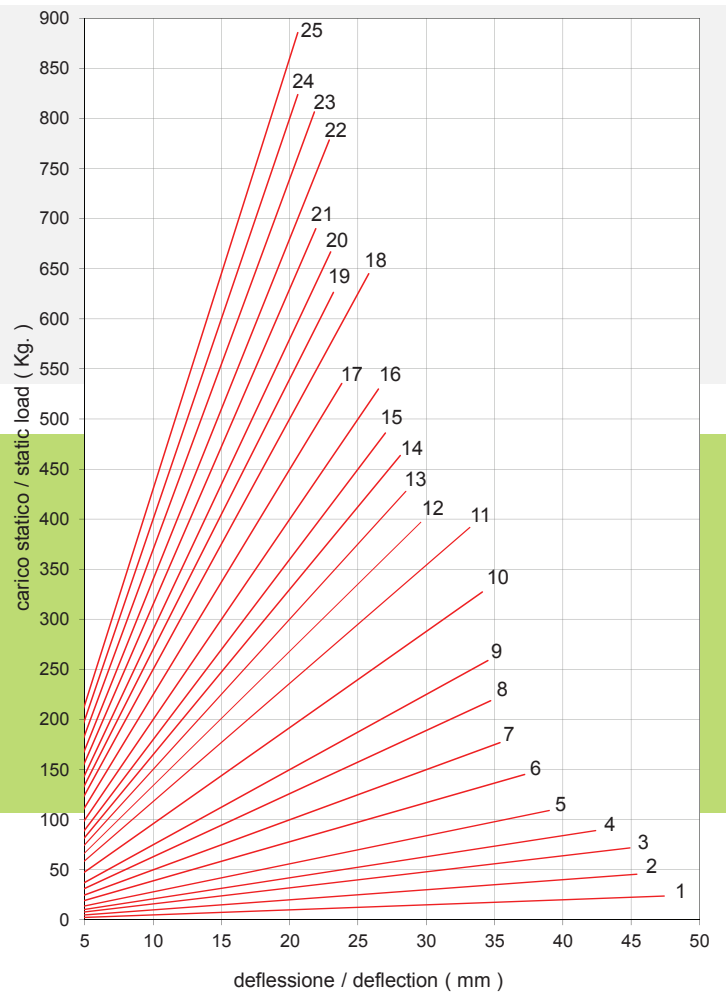
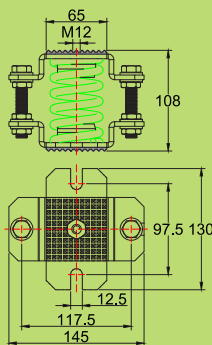
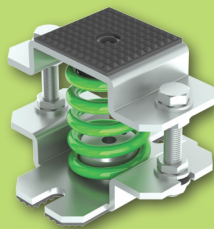
| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | JPWr 02  | 1.72        | 0.5  |
| 2  | JPWr 04  | 1.73        | 1.0  |
| 3  | JPWr 05  | 1.74        | 1.6  |
| 4  | JPWr 06  | 1.83        | 2.1  |
| 5  | JPWr 08  | 1.77        | 2.8  |
| 6  | JPWr 09  | 1.81        | 3.9  |
| 7  | JPWr 12  | 1.83        | 5.0  |
| 8  | JPVr 14  | 1.87        | 6.3  |
| 9  | JPVr 20  | 1.90        | 7.5  |
| 10 | JPVr 22  | 1.91        | 9.6  |
| 11 | JPVr 30  | 1.95        | 11.8 |
| 12 | JPVr 300 | 1.96        | 13.4 |
| 13 | JPVr 301 | 1.98        | 15.0 |
| 14 | JPVr 305 | 1.99        | 16.5 |
| 15 | JPVr 31  | 2.01        | 18.0 |
| 16 | JPVr 33  | 1.97        | 20.0 |
| 17 | JPVr 45  | 2.04        | 22.5 |
| 18 | JPVr 47  | 2.08        | 25.0 |
| 19 | JPVr 48  | 2.11        | 27.0 |
| 20 | JPVr 50  | 2.19        | 29.0 |
| 21 | JPVr 501 | 2.16        | 31.5 |
| 22 | JPVr 510 | 2.15        | 34.0 |
| 23 | JPVr 51  | 2.20        | 37.0 |

| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | JYPWr 02  | 1.67        | 0.5  |
| 2  | JYPWr 04  | 1.69        | 1.0  |
| 3  | JYPWr 05  | 1.69        | 1.6  |
| 4  | JYPWr 06  | 1.78        | 2.1  |
| 5  | JYPWr 08  | 1.72        | 2.8  |
| 6  | JYPWr 09  | 1.76        | 3.9  |
| 7  | JYPWr 12  | 1.79        | 5.0  |
| 8  | JYPVr 14  | 1.82        | 6.3  |
| 9  | JYPVr 20  | 1.85        | 7.5  |
| 10 | JYPVr 22  | 1.86        | 9.6  |
| 11 | JYPVr 30  | 1.90        | 11.8 |
| 12 | JYPVr 300 | 1.91        | 13.4 |
| 13 | JYPVr 301 | 1.93        | 15.0 |
| 14 | JYPVr 305 | 1.95        | 16.5 |
| 15 | JYPVr 31  | 1.96        | 18.0 |
| 16 | JYPVr 33  | 1.92        | 20.0 |
| 17 | JYPVr 45  | 1.99        | 22.5 |
| 18 | JYPVr 47  | 2.04        | 25.0 |
| 19 | JYPVr 48  | 2.06        | 27.0 |
| 20 | JYPVr 50  | 2.14        | 29.0 |
| 21 | JYPVr 501 | 2.11        | 31.5 |
| 22 | JYPVr 510 | 2.10        | 34.0 |
| 23 | JYPVr 51  | 2.16        | 37.0 |

JPW - JPV



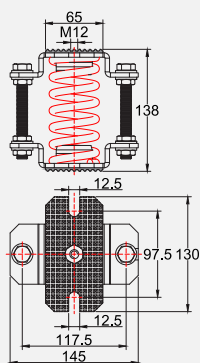
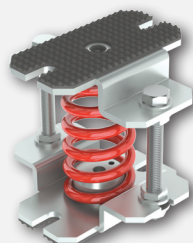
JYPW - JYPV



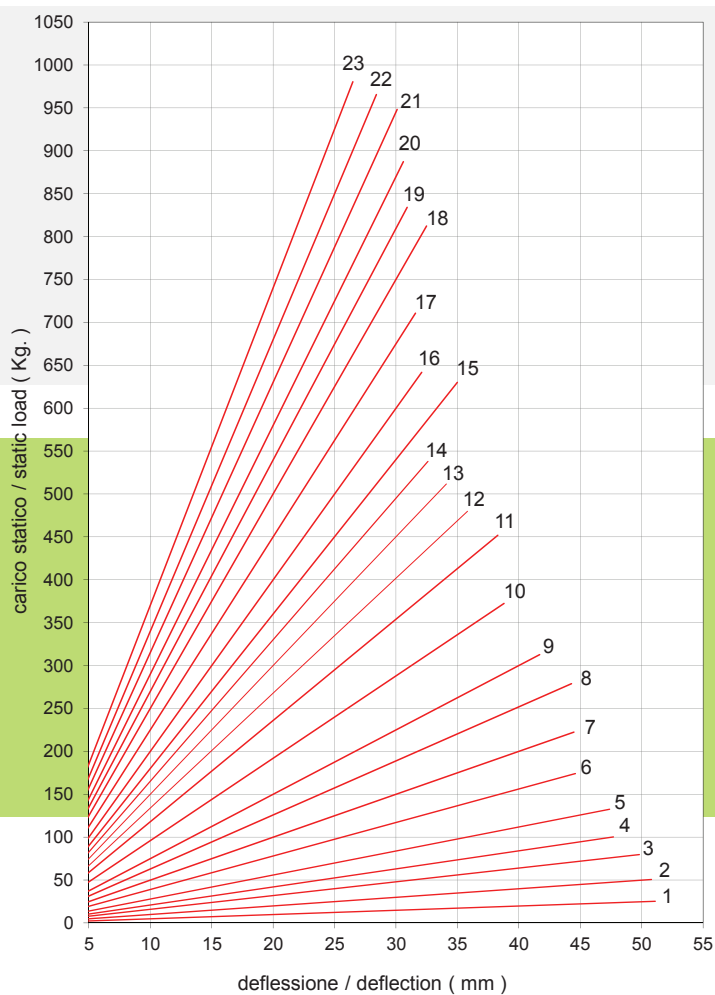
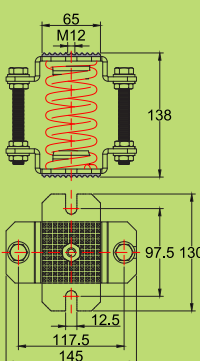
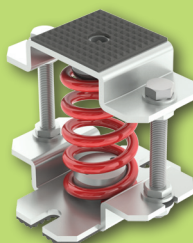
| N. | MODEL   | WEIGHT (kg) | k    |
|----|---------|-------------|------|
| 1  | JPW 02  | 1.87        | 0.5  |
| 2  | JPW 04  | 1.89        | 1.0  |
| 3  | JPW 05  | 1.92        | 1.6  |
| 4  | JPW 06  | 1.95        | 2.1  |
| 5  | JPW 08  | 1.99        | 2.8  |
| 6  | JPW 09  | 2.06        | 3.9  |
| 7  | JPW 12  | 2.05        | 5.0  |
| 8  | JPV 14  | 2.10        | 6.3  |
| 9  | JPV 20  | 2.10        | 7.5  |
| 10 | JPV 22  | 2.10        | 9.6  |
| 11 | JPV 30  | 2.21        | 11.8 |
| 12 | JPV 300 | 2.15        | 13.4 |
| 13 | JPV 301 | 2.21        | 15.0 |
| 14 | JPV 305 | 2.16        | 16.5 |
| 15 | JPV 31  | 2.28        | 18.0 |
| 16 | JPV 33  | 2.22        | 20.0 |
| 17 | JPV 45  | 2.31        | 22.5 |
| 18 | JPV 47  | 2.40        | 25.0 |
| 19 | JPV 48  | 2.41        | 27.0 |
| 20 | JPV 50  | 2.42        | 29.0 |
| 21 | JPV 501 | 2.35        | 31.5 |
| 22 | JPV 510 | 2.51        | 34.0 |
| 23 | JPV 51  | 2.60        | 37.0 |
| 24 | JPV 53  | 2.40        | 40.0 |
| 25 | JPV 55  | 2.50        | 43.0 |

| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | JYPW 02  | 1.74        | 0.5  |
| 2  | JYPW 04  | 1.77        | 1.0  |
| 3  | JYPW 05  | 1.79        | 1.6  |
| 4  | JYPW 06  | 1.82        | 2.1  |
| 5  | JYPW 08  | 1.86        | 2.8  |
| 6  | JYPW 09  | 1.90        | 3.9  |
| 7  | JYPW 12  | 1.93        | 5.0  |
| 8  | JYPV 14  | 1.98        | 6.3  |
| 9  | JYPV 20  | 1.97        | 7.5  |
| 10 | JYPV 22  | 2.08        | 9.6  |
| 11 | JYPV 30  | 2.03        | 11.8 |
| 12 | JYPV 300 | 2.09        | 13.4 |
| 13 | JYPV 301 | 2.03        | 15.0 |
| 14 | JYPV 305 | 2.15        | 16.5 |
| 15 | JYPV 31  | 2.10        | 18.0 |
| 16 | JYPV 33  | 2.18        | 20.0 |
| 17 | JYPV 45  | 2.27        | 22.5 |
| 18 | JYPV 47  | 2.29        | 25.0 |
| 19 | JYPV 48  | 2.29        | 27.0 |
| 20 | JYPV 50  | 2.22        | 29.0 |
| 21 | JYPV 501 | 2.39        | 31.5 |
| 22 | JYPV 510 | 2.47        | 34.0 |
| 23 | JYPV 51  | 2.47        | 37.0 |
| 24 | JYPV 53  | 2.27        | 40.0 |
| 25 | JYPV 55  | 2.37        | 43.0 |

### JPWH - JPVH

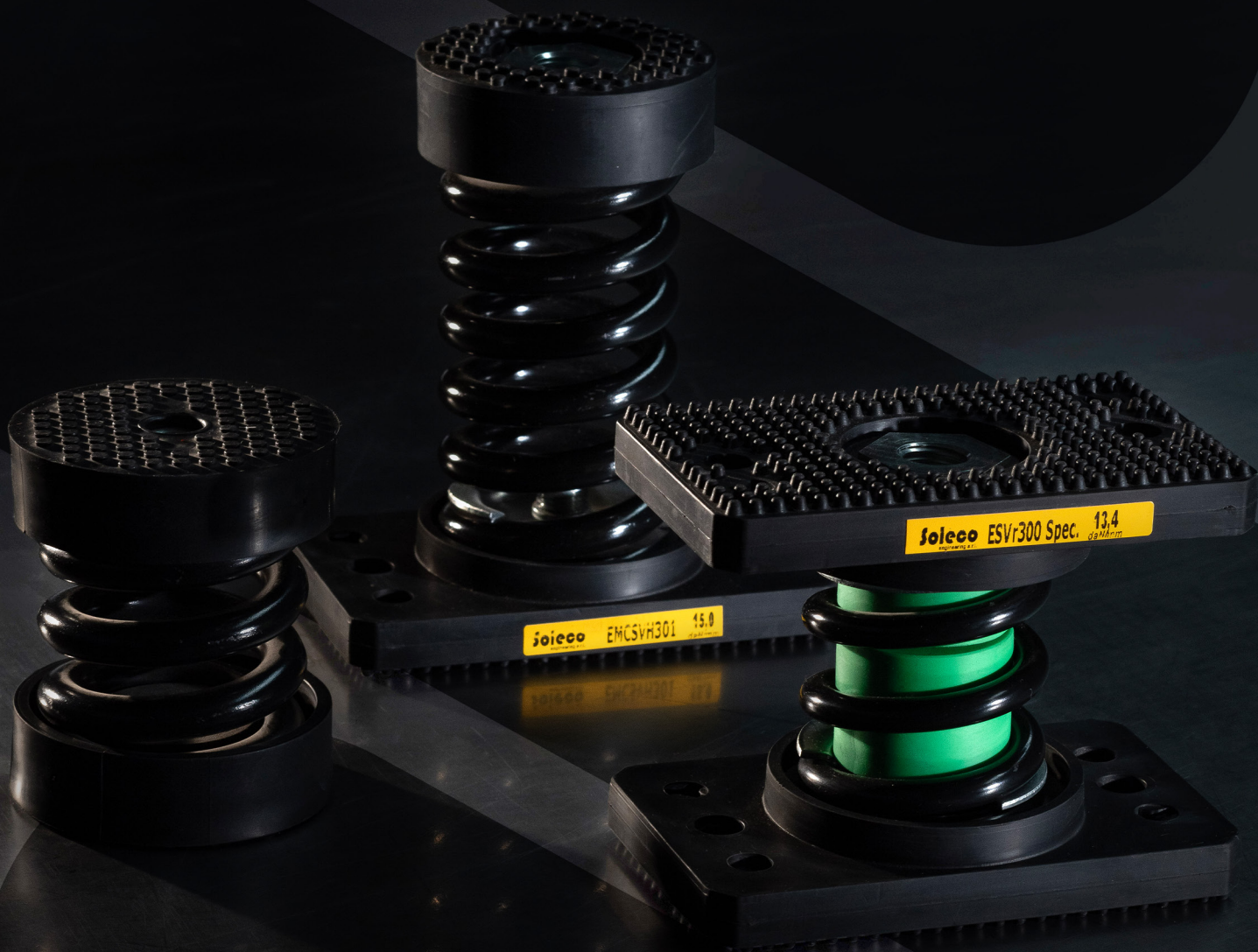


### JYPWH - JYPVH



| N. | MODEL    | WEIGHT (kg) | k    |
|----|----------|-------------|------|
| 1  | JPWH 02  | 1.83        | 0.5  |
| 2  | JPWH 04  | 1.89        | 1.0  |
| 3  | JPWH 05  | 1.97        | 1.6  |
| 4  | JPWH 06  | 1.98        | 2.1  |
| 5  | JPWH 08  | 2.04        | 2.8  |
| 6  | JPWH 09  | 1.99        | 3.9  |
| 7  | JPWH 12  | 2.04        | 5.0  |
| 8  | JPVH 14  | 2.09        | 6.3  |
| 9  | JPVH 20  | 2.16        | 7.5  |
| 10 | JPVH 22  | 2.23        | 9.6  |
| 11 | JPVH 30  | 2.20        | 11.8 |
| 12 | JPVH 300 | 2.19        | 13.4 |
| 13 | JPVH 301 | 2.49        | 15.0 |
| 14 | JPVH 305 | 2.42        | 16.5 |
| 15 | JPVH 31  | 2.59        | 18.0 |
| 16 | JPVH 33  | 2.49        | 20.0 |
| 17 | JPVH 45  | 2.49        | 22.5 |
| 18 | JPVH 47  | 2.54        | 25.0 |
| 19 | JPVH 48  | 2.64        | 27.0 |
| 20 | JPVH 50  | 2.71        | 29.0 |
| 21 | JPVH 501 | 2.60        | 31.5 |
| 22 | JPVH 510 | 2.69        | 34.0 |
| 23 | JPVH 51  | 2.81        | 37.0 |

| N. | MODEL     | WEIGHT (kg) | k    |
|----|-----------|-------------|------|
| 1  | JYPWH 02  | 1.84        | 0.5  |
| 2  | JYPWH 04  | 1.90        | 1.0  |
| 3  | JYPWH 05  | 1.98        | 1.6  |
| 4  | JYPWH 06  | 1.99        | 2.1  |
| 5  | JYPWH 08  | 2.05        | 2.8  |
| 6  | JYPWH 09  | 2.01        | 3.9  |
| 7  | JYPWH 12  | 2.05        | 5.0  |
| 8  | JYPVH 14  | 2.10        | 6.3  |
| 9  | JYPVH 20  | 2.17        | 7.5  |
| 10 | JYPVH 22  | 2.25        | 9.6  |
| 11 | JYPVH 30  | 2.22        | 11.8 |
| 12 | JYPVH 300 | 2.20        | 13.4 |
| 13 | JYPVH 301 | 2.51        | 15.0 |
| 14 | JYPVH 305 | 2.43        | 16.5 |
| 15 | JYPVH 31  | 2.60        | 18.0 |
| 16 | JYPVH 33  | 2.50        | 20.0 |
| 17 | JYPVH 45  | 2.50        | 22.5 |
| 18 | JYPVH 47  | 2.55        | 25.0 |
| 19 | JYPVH 48  | 2.65        | 27.0 |
| 20 | JYPVH 50  | 2.72        | 29.0 |
| 21 | JYPVH 501 | 2.61        | 31.5 |
| 22 | JYPVH 510 | 2.71        | 34.0 |
| 23 | JYPVH 51  | 2.82        | 37.0 |



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