Rubber Design
vibration and noise control

DOCUMENTATION SHEET

Steel Spring Isolator
Type CM

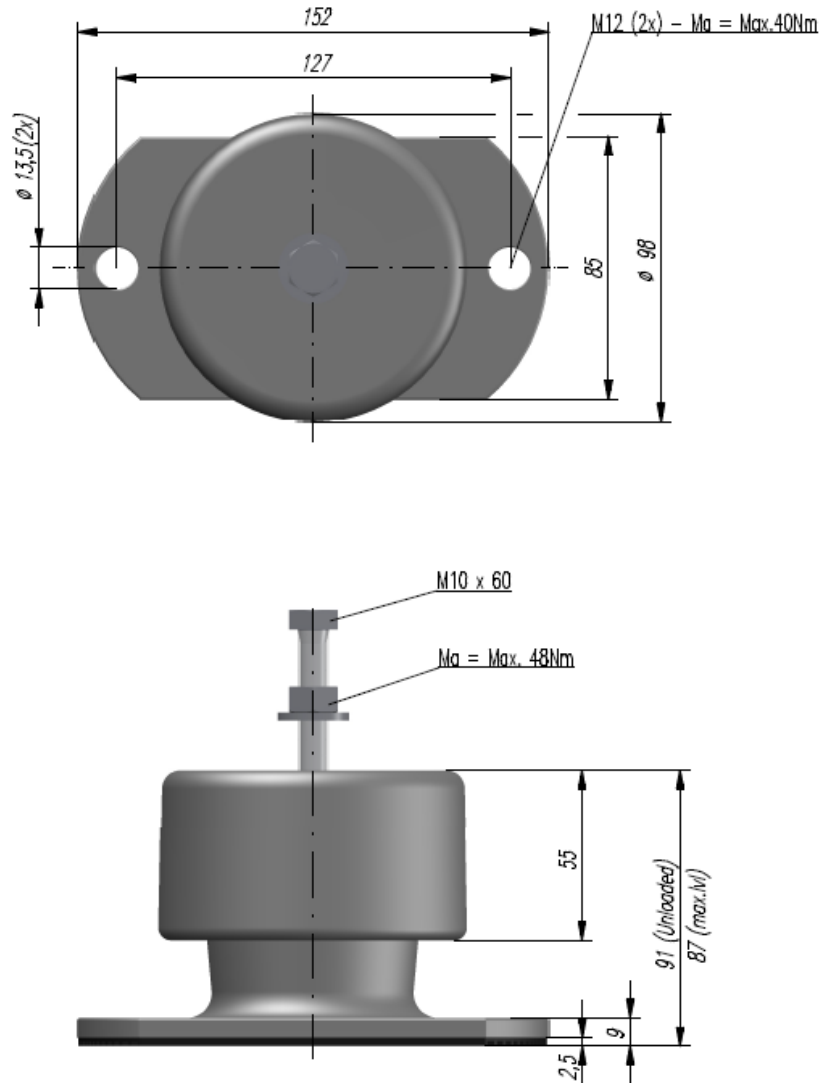
CM

General

Circular spring isolators type CR, CS, CM, CT and CX are available for a load range up to 12.45 kN at 25 mm deflection and up to 10.25 kN at 50 mm deflection. The helical spring isolators are enclosed in aluminum castings, the top interlocking with the base. A built-in leveling device is adjustable by the supplied top fixing screw. A molded neoprene O-ring prevents metal to metal contact of the casting and forms a seal against the weather and contaminants. For offshore applications we recommend the use of Admirality Gun Metal castings, which are available for different types of isolators

Applications

- Generator sets
- Emergency power supplies
- DC-AC converters
- Industrial fans
- Air-handling units
- Pumps
- Air-conditioning machines
- Compressor packages
- Electrical equipment
- Refrigerators
- Cooler units



DIMENSIONS

CM

Type	Cz [N/mm]	Cx, y [N/mm] at preferential load	Fz max [N]	Fz preferential [N]
CM250	43,8	37,4	1112	963
CM300	52,6	44,4	1334	1155
CM350	61,3	58,3	1557	1348
CM400	70,1	61,7	1780	1541
CM450	79,6	65,1	2021	1750
CM550	96,3	79,2	2447	2119
CM650	114,6	103,1	2911	2521
CM750	131,4	118,9	3336	2890
CM900	157,4	128,2	3994	3460

CHARACTERISTICS

Isolator selection

This described isolator selection is based on the vertical load of the isolators, if required seismic and 6 DOF calculations can be performed by our specialists.

1. Determine the total weight of the machine to be isolated, including work load
2. Determine the position of the combined centre of gravity in horizontal and vertical planes
3. Decide the number of isolators and the positions where the isolators are to be placed relative to the combined centre of gravity
4. Calculate the load per isolator
5. Select with the help of the preferential load in the table the suitable type of mounting

We recommend selection of the isolators be made with the load per isolator within + or - 10% of the preferential load. The static deflection of the isolator is calculated by dividing the load per isolator by the stiffness Cz given in the table for the selected isolator.

Rubber Design B.V.
Industrieweg 21
2995BE Heerjansdam
The Netherlands
Phone: +31 (0) 78 677 87 78
Fax: +31 (0) 78 677 10 38
Email: info@rubberdesign.nl
Web: www.rubberdesign.nl