



DOCUMENTATION SHEET

Steel Spring Isolator

Type CR

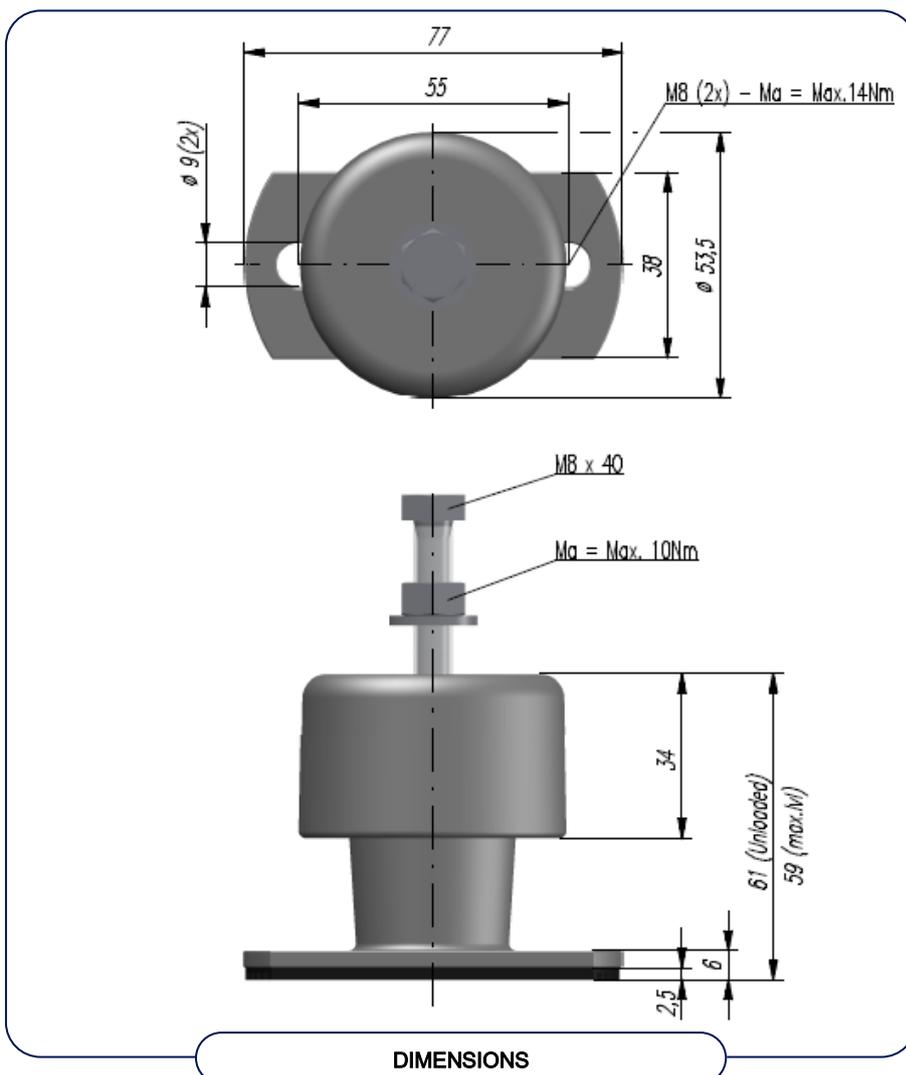
CR

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 Admiralty 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





Type	Cx, y [N/mm]			
	Cz [N/mm]	at preferential load	Fz max [N]	Fz preferential [N]
CR11	1,75	0,7	44	39
CR20	3,50	1,0	89	77
CR30	5,10	2,1	130	113
CR40	7,00	2,6	178	155
CR50	9,00	3,2	227	197
CR60	11,60	4,7	294	255
CR75	13,50	4,2	343	297

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.

CR



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