Rubber Design
vibration and noise control

DOCUMENTATION SHEET

Steel Spring Isolator
Type LS

LS

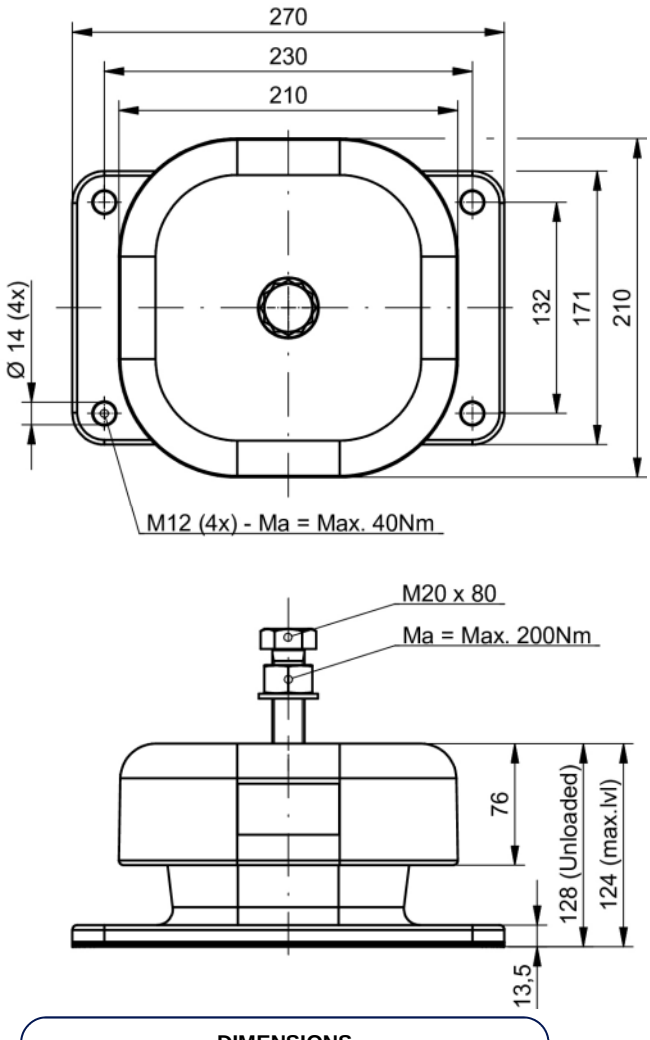
General

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.

Low profile multiple spring isolators type MS, LS, LRH and LRX are available for a load range up to 42.2 kN.

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

Type	Cz [N/mm]	Cx, y [N/mm] at preferential load	Fz max [N]	Fz preferential [N]
LS1200	210,4	157,8	5345	4597
LS1400	245,3	177,4	6231	5381
LS1600	280,2	197,0	7117	6165
LS1800	315,2	230,5	8007	6935
LS2000	350,2	264,0	8896	7704
LS2200	402,8	300,4	10230	8861
LS2400	420,8	314,2	10689	9258
LS2600	455,3	336,8	11565	10017
LS2900	507,9	365,4	12890	11173
LS3200	560,4	394,0	14234	12329
LS4000	700,8	504,2	17800	15400
LS5200	1214,7	766,1	23140	19900
LS6300	2031,5	1157,8	28906	24860

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.

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