Rubber Design
vibration and noise control

DOCUMENTATION SHEET

Steel Spring Isolator
Type SO4

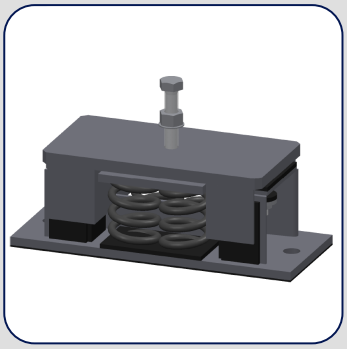
SO4

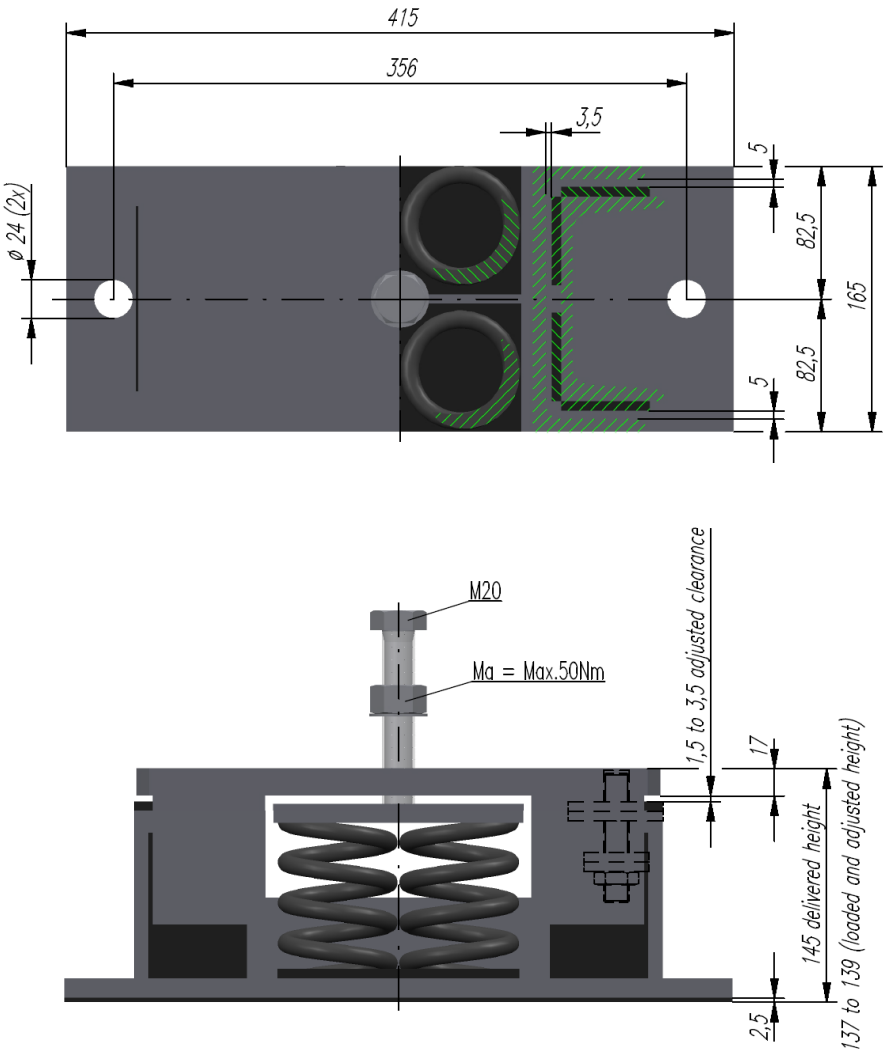
General

The open spring captive isolators, type SO, are designed for those applications where a limitation of isolator displacements is requested. The captive isolators are intended as a fixture or displacement limiter for a short term period, for instance during transportation of a resilient isolated installation. A further reduction of the installation displacements can be achieved with the additional installation of spring hanger units.

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]
SO4-1200	210,4	157,8	5345	4597
SO4-1400	245,3	177,4	6231	5381
SO4-1600	280,2	197,0	7117	6165
SO4-1800	315,2	230,5	8006	6934
SO4-2000	350,2	264,0	8896	7704
SO4-2300	402,8	300,4	10230	8860
SO4-2600	455,3	336,8	11565	10017
SO4-2900	507,9	365,4	12900	11173
SO4-3200	560,4	394,0	14234	12329
SO4-4000	700,8	504,2	17800	15400
SO4-5200	1214,7	766,0	23140	19900
SO4-6300	2031,5	1157,8	28906	24860

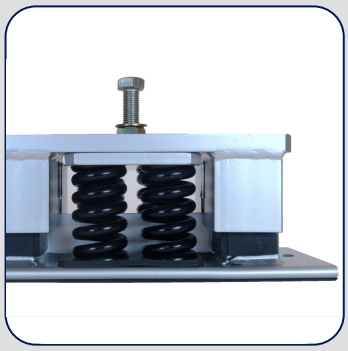
CHARACTERISTICS

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.



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