



DOCUMENTATION

Steel Spring Isolator SO4X

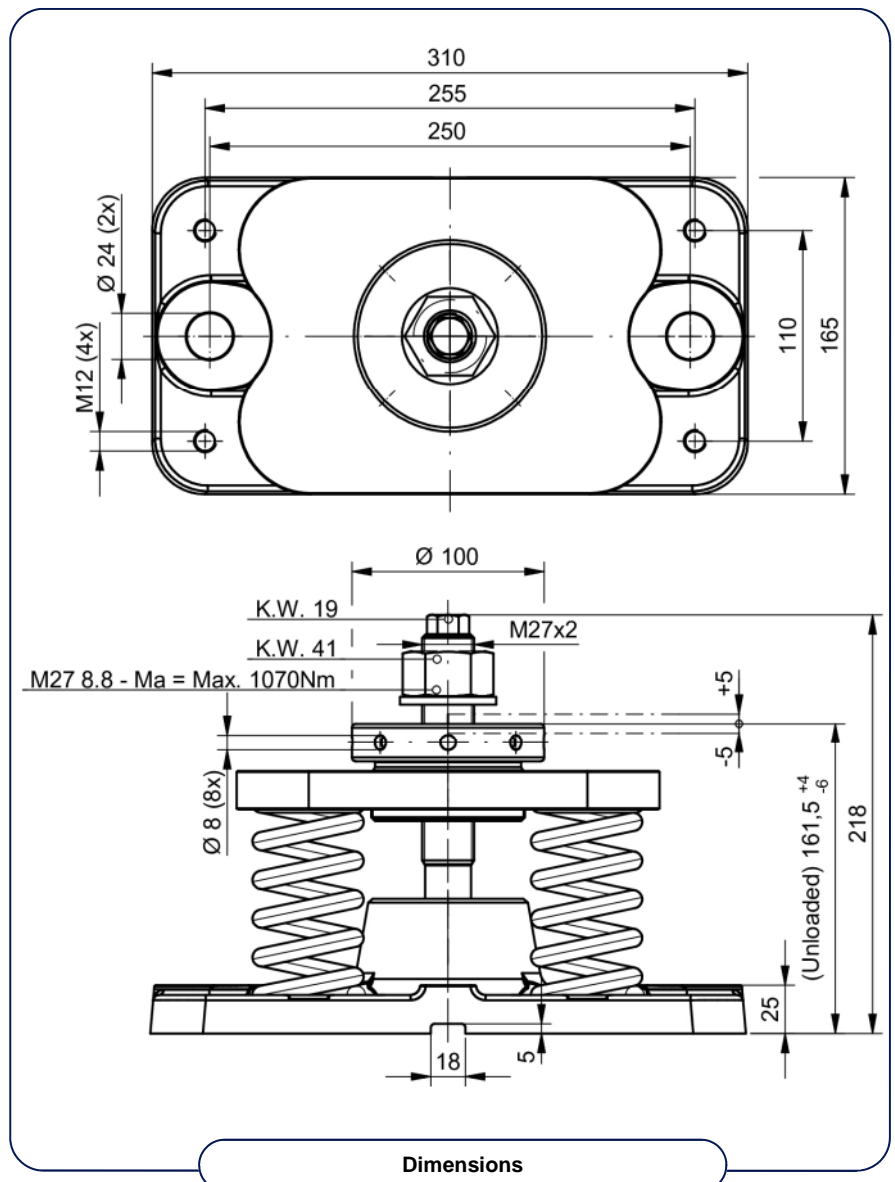
SO4X

General

The type S(eismic) O(pen), are designed for those critical applications where in the event of a seismic impact the installation movements have to be limited to acceptable displacements to avoid that water, gas, oil or electric connections will be damaged. The use of proven technics and materials, will ensure that the installation will stay in full service after the earthquake. Of course the isolators will provide excellent vibration attenuation under normal running conditions. The integrated buffer and height re-adjustment, eases the installation procedure.

Applications

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





Type	Cz [N/mm]	Cx, y [N/mm] at preferential load	Fz max [N]	Fz preferential [N]
SO4X 1200	212,4	157,8	5395	4673
SO4X 1800	315,6	236,4	806	6894
SO4X 2000	350,4	264,0	8900	7709
SO4X 2300	404,0	264,0	10262	8888
SO4X 2600	455,4	336,8	11567	10019
SO4X 2700	473,0	348,6	12014	10406
SO4X 2900	507,8	365,4	12898	11172
SO4X 3200	560,4	394,0	14234	12329
SO4X 3300	578,0	413,6	14681	12716
SO4X 3400	595,6	433,2	15128	13103
SO4X 4000	702,8	504,2	17851	15462
SO4X 4100	718,0	492,0	18237	15796
SO4X 4400	771,6	476,8	19598	16854
SO4X 4600	805,6	548,8	20462	17723
SO4X 4900	858,2	599,2	21798	18880
SO4X 5200	1246,8	766,0	31669	27430
SO4X 5320	945,8	616,2	24023	20808
SO4X 5400	945,8	656,0	24023	20808
SO4X 5700	998,4	706,4	25359	21965
SO4X 6200	1086,0	763,2	27584	23892
SO4X 6300	2051,6	1157,8	28906	24860
SO4X 6600	1157,0	797,0	29408	25291

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

Email: info@rubberdesign.nl

Web: www.rubberdesign.nl