

TECHNICAL DATA SHEET DS 025

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QCF 56 Issue 3

PAGE

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ISSUE

6

DATE

6 February 2006

APPROVED

A.N.M

TITLE.

Installation Instructions for Open Restrained Spring Isolators.

Details of isolators as Leaflet PL005

Each size of isolator is identified by the colour coded spring.

Although these isolators have excellent finishes, they are not usually suitable for prolonged use in adverse outdoor locations or corrosive atmospheres without further protection. (Please consult our applications engineers about problem installation areas).

The isolators should be installed generally in accordance with the following procedure:

1. The structure beneath the machine should be constructed to form a rigid and reasonably level seating for each group of isolators.
2. The isolators should be examined to ensure they are of the correct size, and if appropriate, the positions for different sizes should be located in accordance with our recommendations or drawings.
3. After the isolators are in position, the machine base should be levelled and supported just clear of the isolator tops using jacks or blocks, ensuring alignment between isolator screw and machine base fixing holes.

At this stage isolator H.D. bolts can be loosely fitted to maintain isolator positions during final lowering of machine base, but it is important these do not strain the isolator in any direction. (H.D. bolts supplied by others).

5. Isolator height should now be adjusted until contact with machine under base is made. To do this it will be necessary to release the vertical restraining nuts on isolators and set them at an approximate clearance height of 10-20 mm. See Figure 1.

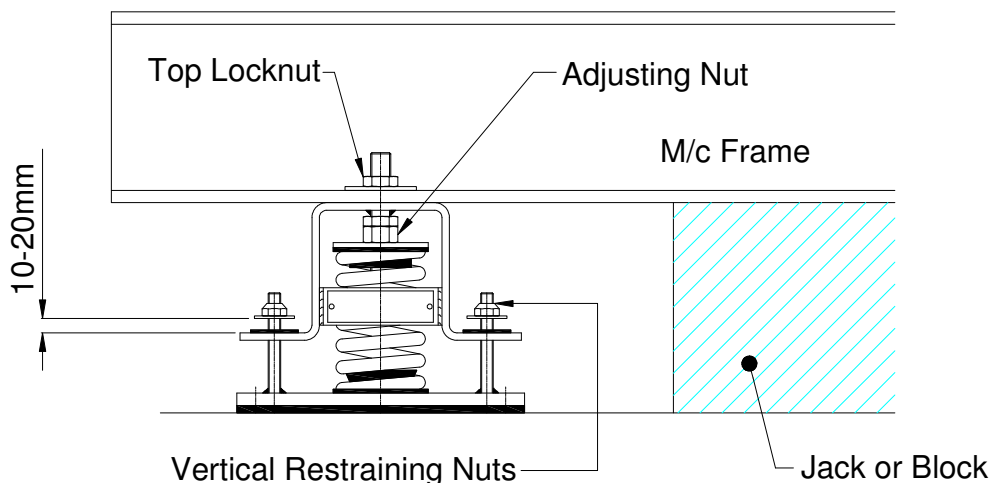


Figure 1.

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Note: If isolators have been pre-loaded before installation - see Note 8 - no adjustment must be made until full machine load has been transferred to isolators. Variations in heights should be taken out using steel or other solid packing - see Note 7.

5. After removal of blocks, the machine base can be carefully lowered evenly across supported area transferring full weight to the isolators. Further machine height adjustment can be achieved by relieving load on isolators and screwing internal nut on spring spigot either up or down, but isolator must not be adjusted above free height as detailed on our Leaflet PL005 in its load condition.

Isolator H.D. bolts and top locknuts should now be fully tightened.

6. Vertical restraining nuts on isolators can now be adjusted to provide a minimum of 3 mm clearance, as shown on Figure 2.

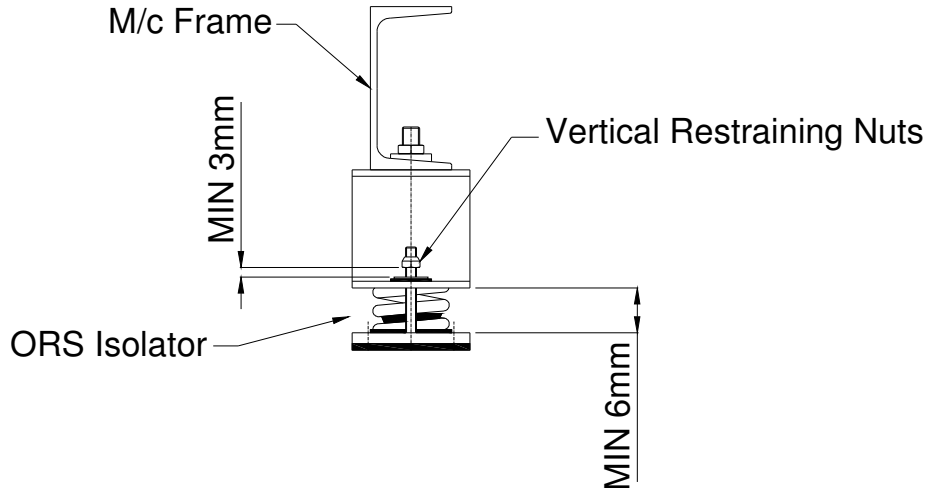


Figure 2.

7. Adjustments must not be used to rectify major variations in floor levels, i.e. greater than 5 mm between isolator positions. Steel or other solid packing should be used between the mounting and machine frame or in extreme cases on concrete floors a new screed may be necessary.
8. Isolators may be preloaded on site by winding down the vertical restraining on each side of the isolator. Preload should not exceed 20 mm on ORS 25 range, 40 mm on ORS 50. This preloading can be used to reduce downward movement of cooling towers when filling equipment with liquid.

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- Note isolators are not designed to accommodate angular misalignment, excessive horizontal or tensile forces, and must not be used for tensile or sheer loading applications.
- The efficiency of an isolator system can be seriously impaired if the system is connected to rigid pipes, electrical conduits, ducts or shafts. It is essential that such external connections be as flexible as possible, not only to prevent transmission of vibration through the connections and allow the system freedom of movement, but also to avoid possible failure of connections.

Please contact our Technical Department at the address below if you have any problems relating to installation or selection.



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