

# TECHNICAL DATA SHEET

## DS 042

**NON CONTROLLED UNLESS STATED OTHERWISE**

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ISSUE	8
DATE	17 May 2019
APPROVED	A.N.M

TITLE.

In service maintenance instructions for Steel Spring Unit Isolators.

Applicable Data Sheets:      DS 024    Type    ODS/ODL  
    DS 010    Type    SM/SBM  
    DS 037    Type CSD

### 1. After Installation

Immediately after the equipment weight has been transferred and the isolators installed in accordance with the relative installation Data Sheet, check and note loaded heights and any relative information regarding machine operation and isolator performance, using a simple chart as shown on our Data Sheet DS 045.

### 2. Visual Inspection/Maintenance

These isolators are of robust construction and should last the life of the machine. They are not detrimentally affected by oil, water or extreme temperatures.

Apart from the occasional coat of paint, these isolators require very little maintenance. But regular checks should be made on machine performance and any relative change in isolator condition.

Limited surface rusting of the isolator is not a problem due to the thickness of the housing material and this will not reduce isolator performance. It is recommended though that such areas be wire brushed and repainted as necessary. Isolators exposed to extreme weather conditions or corrosive atmospheres should have special paint finishes before installation.

All isolators should be kept clean and clear of debris. The type CSD may show minor leakage of silicone fluid which is chemically inert and may be wiped clean with absorbent paper. Use of a barrier cream or gloves is recommended. Any leakage of more than about 5 cm<sup>3</sup> should be investigated further.

### 3. Refurbishment

- A. ODS and ODL Type Isolators, covered by Data Sheet DS 024, have felt control pads positioned between top and bottom castings. They are visible at each end of the top casting, and provide control during transient machine movement, such as start up and shutdown.

Over a long service life or during situations when isolators have been subjected to excessive machine forces, the control pads will have become compressed and loose. The degree of play in these pads can be felt by hand, where little or no movement should be experienced. Further compression of these pads can be made by reducing the adjusting screw 'X' dimension (see Data Sheet DS 024) but it is important they are not over compressed and should be just "nipped".

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When the control pads show significant wear or have been compressed by at least half their original thickness replacement of the control pads will probably be necessary. This can be done on site by a competent engineer but we recommend that the isolators be returned to our works for refurbishment. Please contact our application engineers for further details regarding either supply of replacement control pads or isolator refurbishment.

**B. SM/SBM Type Spring Isolators covered by Data Sheet DS 010 and CSD type Spring and Viscous Damper Units Data Sheet DS 037**

These isolators should be returned to our works for refurbishment or replaced with new units as required. No adjustment can be made to these units during service. Refurbishment kits can be obtained for Type CSD units which contain replacement flexible bellows, adhesive, fixing straps, damper fluid, socked head screws and complete instructions.

Note 1: The use of a suitable hydraulic press and bridge arrangement will be necessary to carry out such a refurbishment.

Note 2: The type CSD units should be handled with care due to their weight. They should not be laid on their sides.

<u>Type</u>	<u>Weights (kg)</u>
CSD/1	60
CSD/2	80
CSD/3	80

Note 3: Some isolators covered by this data sheet have accessible external screw heads. These screws are either drain plugs for fluid reservoirs or maintain the pre-load on the isolator. They must not be removed unless proper precautions are taken.

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



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