TECHNICAL DATA SHEET
DS 067

NON CONTROLLED UNLESS STATED OTHERWISE

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ISSUE	3
DATE	6 February 2006
APPROVED	P.J.B

TITLE.	In Service Maintenance instructions for type PD shock mountings and type VSU vertical stop units.

1. AFTER INSTALLATION

Immediately after the equipment weight has been transferred to the Type PD mountings check and note the loaded heights and any relevant information regarding machine operation and mounting performance.

All mountings should only show a gradual variation in loaded heights from one end of the set. If different mounting positions show significant variations, then this may indicate that some bending or twisting has occurred in the equipment frame or mounting seatings and should be investigated further. See the appropriate installation drawing for mounting deflections and static dimensions.

2. CREEP (SETTLEMENT)

After approximately 48 hours the mountings will have settled by up to 1.5 mm due to primary creep of the rubber. The vertical stop unit clearance settings should be set at this stage to the values specified on the installation drawings.

The rate of creep reduces, with further settlement of approximately 20% of initial static deflection over a period of 10 years. This settlement will vary for each installation depending on dynamic loads and temperatures.

3. VISUAL INSPECTION / MAINTENANCE

During service, regular three monthly checks should be made on the general condition of all mountings and stop units installed. Unless the mountings have been specially protected against the effect of adverse conditions, care should be taken to ensure that all mountings and stop units are kept clean, dry and free from oil contamination, and where possible, rubber elements protected from sources of ultra violet light. Special attention should be paid to any evidence of swelling, blistering or cracking of the natural rubber elements. The vertical stop unit clearance settings should be checked and adjusted to the values specified on the installation drawings by adding/removal of steel shims.

At the first signs of any deterioration of the rubber elements it is only necessary to log the observation such that a careful check and future record of any further deterioration can be made. A check on mounting height must also be made, measuring at two positions, one each side of the mounting and the average recorded. Any rapid deterioration of the rubber, particularly if accompanied by the rapid settlement of the mountings, should be logged and reported immediately.

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A simple chart shown on our Data Sheet DS 045 indicates the type of format required to log and record mounting inspections, in order that mounting replacements can be sought at the earliest opportunity to prevent possible failure and damage to the equipment. If a mounting failure results from anything other than age of service, the source of failure must be identified and corrected prior to the reinstallation of new mountings. The most common cause of rubber mounting failure in service is excessive oil contamination. Our Data Sheet DS 041 provides details of the significant rubber properties for our mountings.

Important: No paint must be applied to rubber surfaces, unless specified by our engineers. If paint protection is required or found necessary for mounting metal components, rubber elements must be adequately masked to prevent contamination during application.

4. REPLACEMENTS

Replacement of mountings should be undertaken once their maximum creep exceeds the values in the table below. The creep is the difference between the height after 48 hours of static loading and the height at the time of measurement.

Mounting Type	Maximum Creep Deflection (mm)
P5D	6.5
P7D	6.5
P8½D	6.5

The replacement time will also depend on age of service and condition or rubber, which can be evaluated from records kept and visual inspection.

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

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