

TECHNICAL DATA SHEET DS 010

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QCF 56 Issue 3

PAGE

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ISSUE

15

DATE

6 February 2006

APPROVED

P.J.B

TITLE.

Instructions for Installation of Rubber and Spring Unit Isolators.

This sheet applies to the following types of isolator:

<u>Type</u>	<u>Drawing No.</u>	<u>Leaflet No.</u>
*Genflex Industrial	-	PL002
*Genflex Marine	-	PL002
*Cushyfloat	-	PL022
*EFM 17/1463	M36166	-
*EFM 17/389	M36166	-
*EFM 17/1566	M36166	-
*PLM	M42024	-
*MPM	-	PL010
*MPBM	-	PL010
SM	-	-
SBM	-	-
*F & P	M40502	-
Rubber Turret Mountings	-	PL009
*C	-	-
+TSC - T1 & T2	-	PL001
+TSC - T10	-	PL001

Each type of isolator is made in a range of sizes and rubber elements which are identified either by labels, colour coding or moulded part numbers.

* These isolators are manufactured from natural rubber bonded to steel components.

+ These isolators use combined natural rubber elements and steel springs.

Finishes vary but units are not usually suitable for prolonged use in adverse outdoor locations or corrosive atmospheres without further protection. Exposure/contamination by minerals oils will cause natural rubber to swell and deteriorate, thus reducing working life. (Please consult our application engineers about problem installation areas).

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Isolators should be installed generally in accordance with the following procedure:

1. The structure beneath the machines 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 rubber compounds. If appropriate, the positions for different rubber compounds should be located in accordance with our recommendations or drawings.
3. Either bolt the isolators to the underside of the machine base or position them upon the prepared seating before lowering the machine into position.
4. Jacks or blocks should be used to support the machine in a level state with a small clearance above or below each isolator. The clearances must be measured and if they vary by more than 0.5 mm (1 mm for type Genflex, MPM, SM, TSC) then steel or other rigid packing pieces should be fitted before transferring the machine weight onto the isolators. These packing pieces may be fitted above or below the isolators and should be of adequate size.
5. Isolator hold down bolts should now be fitted (if applicable) these must not strain the isolator in any direction. The isolators are not designed to accommodate angular misalignment, variations in level, excessive horizontal forces or tensile forces. (H.D. bolts supplied by others).
6. Bracket types MPBM and SBM should be bolted to machine base sides and then lowered into position and supported just clear of concrete floor or supported structure. Clearances must be measured and should not vary by more than 1 mm, and where necessary, steel or other rigid packing pieces should be fitted before transferring the machine weight onto the isolators.
7. It is recommended that isolator top fixing bolts material grade 8.8 (supplied by others) be tightened to their correct torque values. (Marine Genflex top fixing bolts must locate in isolator to min 50 mm - max. 85 mm).
8. Note these isolators are not designed for tensile or shear loading applications, and should only be installed in accordance with our recommendations.
9. 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 the connections.

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



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