

'MOV' GREASES GENERAL INFORMATION

THE NEED

These products are especially suited to meet the needs of utilities and other users who want to reduce the problems associated with grease lubrication of valve stems and geared operators on both manual and motorized valves. More specifically, greases used for these applications can be subjected to hardening as a result of oil separation, oil evaporation, additive interaction, radiation and/or oxidation. This can result in wear, higher friction and/or increased downtime to maintain the valves or to reset the torque values. In addition, the performance of some greases can be seriously degraded by exposure to water and/or to some of the copper alloy materials used in this application.

THE PRODUCT

A family of greases are available which are based on a proven calcium sulphonate complex thickener. Tests, such as those by ASTM (American Society for Testing and Materials) at independent laboratories and in-house show that these 'MOV' greases are better than current products. In addition, they are compatible with the calcium complex EP grease used previously.

DETAILS

In tests done at an independent laboratory these 'MOV' greases were about twice as good other products. There are four products currently available to meet specific requirements. These are 'MOV Long Life', 'MOV Extra', 'MOV Syn' and 'MOV Plus'. All use the same thickener, however, they have different base oil types and viscosities. 'MOV Long Life' has a hydrotreated oil, 'MOV Extra' a more traditional but low viscosity mineral oil, 'MOV Plus' a higher viscosity base oil and 'MOV Syn' a synthetic oil. 'MOV Plus' is being phased out in favor of 'MOV Long Life' for nuclear applications and 'MOV Extra' for commercial applications. 'MOV Syn' is for applications requiring -40 °C performance.

These MOV greases also show much less degradation in accelerated age hardening tests. For this test, steel panels coated with a film of grease are subjected to temperatures of 150°C (302°F) for 96 hours. Traditional greases get hard or even flake off the panels. Plus, in ASTM tests for water washout, oxidation life and stability, they out performed many current products. Details are provided in the technical data sheets.

ENVIRONMENTAL CONSIDERATIONS

In addition, when compared to traditional extreme pressure greases, these MOV greases provide equal or better extreme pressure and anti-wear performance without requiring zinc additives. They also contain no added lead or chlorinated paraffins. Plus, the superior resistance to oil separation, to water washout, and to softening on working means that there should be less age hardening and less oil separation. The potential for extended relubrication intervals and reduced wear can also result in less solid and liquid waste. Lastly, these MOV greases contain no artificial colours or solids for colouring.

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