



### Fatigue Prevention Kit for Pump and Pitch manifold

**B4566** for NEG Micon NM72/1500 and NEG Micon NM82/1500 Turbines  
(for B2047 & B2297 Arctic Pitch Hydraulic)  
For P04, P06

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**B5149** for NEG Micon NM72/1500 and NEG Micon NM82/1500 Turbines  
(for B1535 & B1536 Arctic Pitch Hydraulic)  
For P01, P02, P03

### Purpose

By installing the upgrade kit, the fatigue – and worse case scenario – the cracking of the manifold should be avoided, and this solution will have a highly positive effect on the cost for maintenance and also the availability of the turbine.

This upgrade kit will ensure that the manifold will be exposed to less pressure difference, in this case 180-200 bar, versus previously 0-200 bar, which again ensures, that the time of life of the manifold is substantially extended. = **MINIMIZE DOWNTIME**



On-site mounting of the Fatigue Prevention Kit is very easy

### Proven technology and thoroughly tested

This upgrade kit solution was tested on 2 pump manifolds as well as 4 actuator manifolds, on which the necessary measuring points were mounted.

- Frequency of 4,25 Hz
- Pressure area of 180-200 bar

Based on experience and estimated calculations from Vestas it was the objective, that in case the manifolds survived minimum 15.000.000 impulses, the solution was a success.

The test was set up with the 4 actuator manifolds – the 2 pump manifolds were connected later. The reason for choosing the pressure area of 180-200 bar was, that in this specific pressure area, cracks on the manifolds had been observed.

### Solution

By mounting the upgrade kit in due time to compensate for the high difference in pressure, the cracking of manifolds would be highly unlikely, and as such this solution would be both preventative and cost efficient compared to replacing the complete manifold.

The first upgrade kit B4566 was installed in 2005 in Germany in a NEG Micon 82/1500 turbine.

Related B4566 and B5149 Documentation is available for this solution.

Please contact our service department for further information. We are looking forward to support you.

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