Hans Jensen Lubricators

Smedevænget 3
DK-9560 Hadsund
www.hjlubri.dk

Tel.: +45 98 57 19 11
Fax: +45 98 57 13 87
E-mail: hjl@hjlubri.dk

SERVICE LETTER

Check of holes for SIP valves

Introduction

As it of course is of great interest that our products are easy to install, the preparation for the application is consequently important and easy check an advantage. Therefore we have chosen, apart from a detailed drawing specification, also to deliver a plug gauge to verify, that the SIP valves can actually be mounted correctly in the holes.

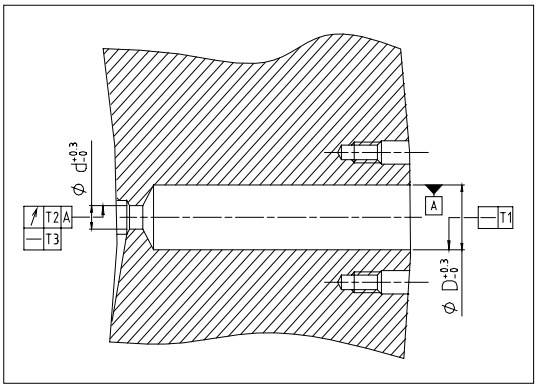

Fig. 1. Horizontal section view of cylinder

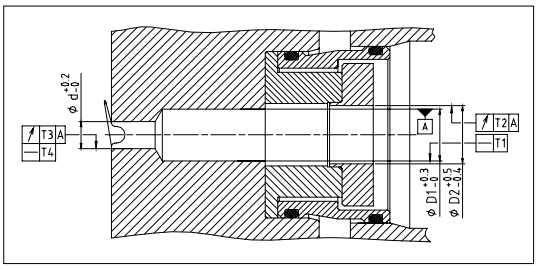

Fig. 2. Vertical section view of cylinder liner

Plug gauge

If the plug gauge can be easily inserted in the valve holes, the valves will also fit. The gauge does, however, not confirm measure and position tolerances which much also be observed in order to obtain problem-free mounting and function.

Delivery of plug gauge

Application of the plug gauge confirms whether the valves can be mounted. We therefore recommend that the gauge which in future will be delivered with all first deliveries of SIP valves for an engine, is applied as intended.

Valve hole for SIP valve

When SIP valves are mounted in a cylinder liner, the valve holes must in principle be made out as shown below.

The above sketches Fig. 1 and Fig. 2 Fig. 1. Horizontal section view of cylinder liner show different holes for SIP valves on MAN B&W, MHI and Wärtsilä Switzerland (Sulzer) engines, and the tolerances T1, T2, T3 and T4 ensure that the holes are made function-wise correctly. If the tolerances are not observed there is a risk that the valve may be damaged during mounting and/or that it will not work as intended. Therefore apart from the application of the plug gauge, we also refer to the valve hole drawing following the concrete delivery

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