

GRINDEX Information

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TECHNICAL BULLETIN

TB 17

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Subject: **Fitting impellers and diffusers**

Technical category: Hydraulics

Pump concerned: Master H

Master H is a 2-step high pressure pump. Assembly and adjustment of diffusers in a Master H differ from other Grindex pumps. The following pages of this bulletin describe in detail how to assemble impellers and diffusers on a Master H.

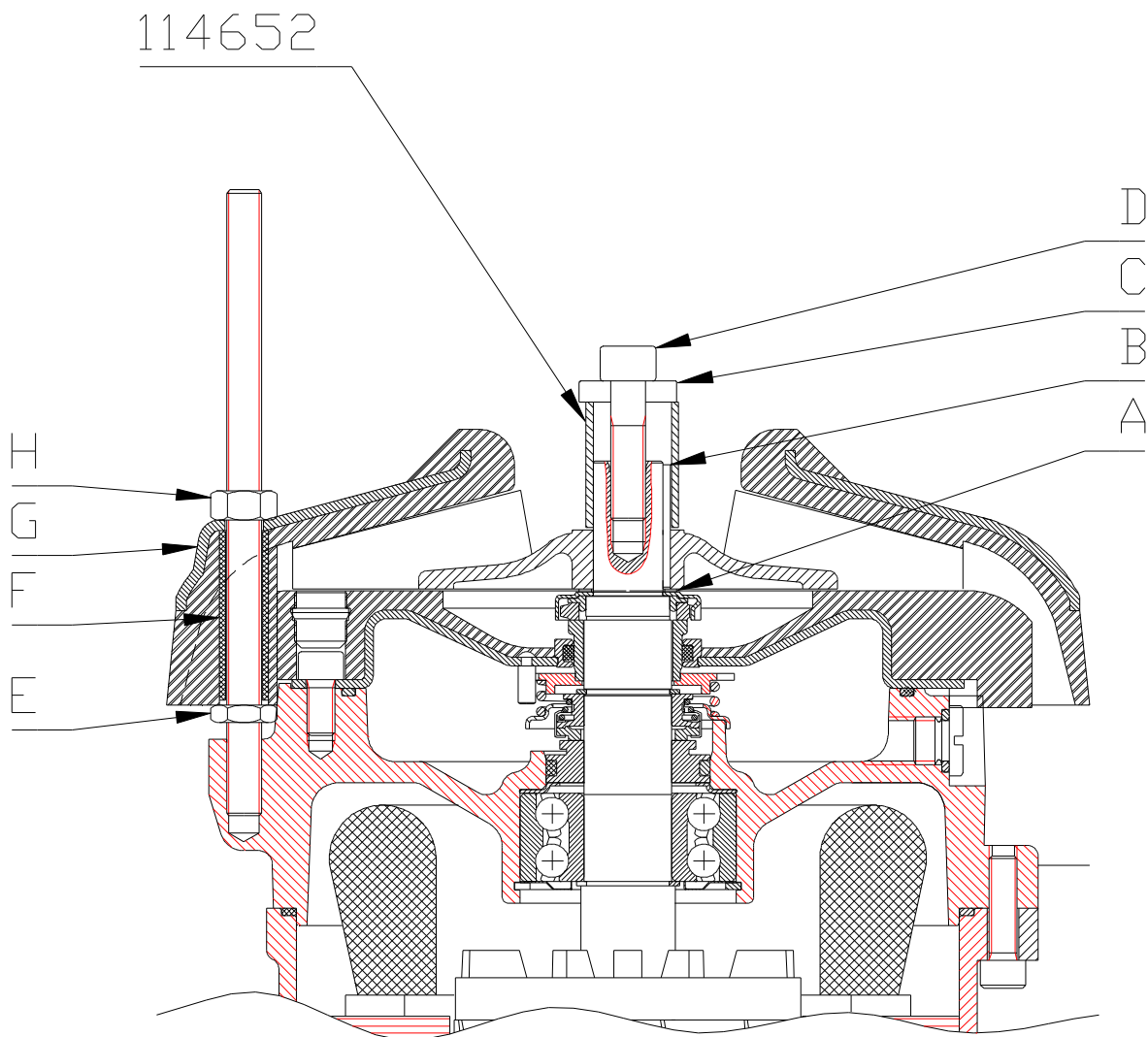


Fit a suitable number of adjusting washers (A) on to the shaft so that a clearance of 0.1 mm is obtained between the impeller and the upper diffuser when the impeller has been tightened.

Slide on the impeller carefully so that the key (B) fits into the keyway in the impeller. Fit the sleeve (114652) and the washer (C) on to the shaft and tighten the screw (D). Change the number of washers if necessary so that the clearance is adequate.

Fit the nuts (E) on to the studs. Fit the spacer tubes (F) into the diffuser (G). Fit the diffuser and the nuts (H).

Adjust the diffuser with the nuts (E) and (H). The clearance between the impeller and the diffuser should be about 0.1 mm (0.3 mm in the polyurethane version).



Fit the rubber seals (I) on to the studs. Unscrew the screw (D) and remove the sleeve (114652) that keeps the impeller tight. Fit the diffuser disc (J). The diffuser disc shall be completely loose at this moment.

Fit a suitable number of adjusting washers (K) on to the shaft so that a clearance of 0.1 mm is obtained between the impeller (L) and the diffuser disc when the impeller has been tightened. Change the number of washers if it is necessary so that the clearance is correct. Fit the key into the keyway. Fit the impeller (L). Fit the washer (C) and tighten the screw (D). Use tool (114386) to retain the impeller.

Fit the spacer tubes (M) into the lower diffuser(N). Fit the lower diffuser and the nuts (O). The diffuser disc is now centered by the lower diffuser. Adjust the diffuser with the nuts (O). Lock the nuts against each other when the clearance between the impeller and the diffuser is about 0.1 mm (0.3 mm in the polyurethane version).

