TECHNICAL SPECIFICATIONS

EXTERNAL IMPELLER ADJUSTMENT	2025

SAFETY

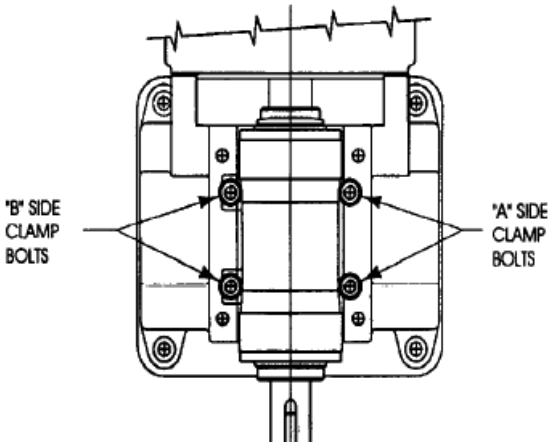
Ensure the pump is offline and locked out before making any adjustments to the impeller

Operation of a pump with the impeller rubbing against the liner may cause severe damage to the pump.

Proper operating clearance must be checked prior to operating the pump.

IMPELLER ADJUSTMENT

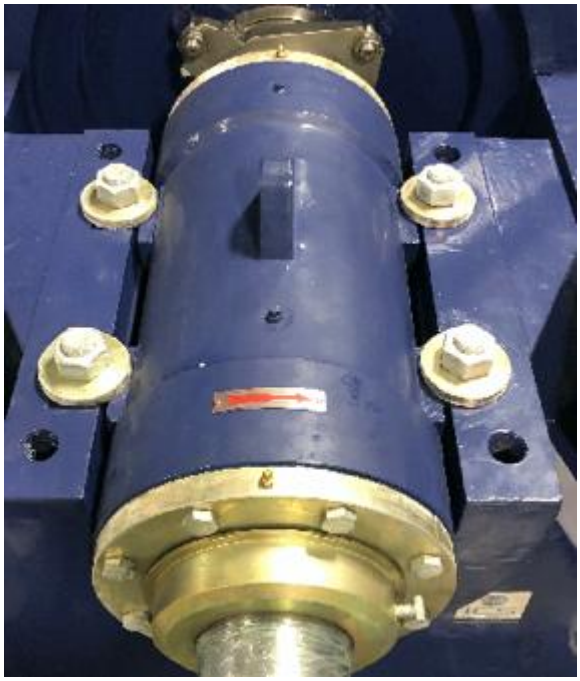
The following procedure describes a typical impeller clearance adjustment for a Mill Master pump. The external adjusting bolt allows for easy impeller adjustment to meet the desired and optimize specific operating conditions.



If your pump is fitted with a Mechanical Seal, consult ICS prior to adjustment

Pumps with recessed impellers do not rely on close running clearances with the liner. In such cases the impeller is normally adjusted back to keep shaft seal pressure at a minimum.

1. Loosen Clamp Bolts on Side 'B' only, as shown to your left, except on 8x6 and larger pumps. For 8x6 and larger loosen only the clamp bolt furthest from the pump shaft end. A maximum .010" rise at the bearing assembly drive end is allowed.



2. Rotate the shaft clockwise by hand and move the bearing assembly forward (toward cover plate) by tightening the rear nut on Adjusting Bolt until the impeller starts to rub on the front liner as shown on next slide.

3. Release the nut just tightened by 1/3 turn (2 flats), then move the bearing assembly back by means of the front nut until the housing lug is secure against the rear nut.

4. Tighten Clamp Bolts on side ‘B’ as shown on pervious slide . Bolts on side ‘A’ were tightened earlier.

5. Tighten both adjustment screw nuts against housing lug.

6. Rotate the shaft and, if rubbing occurs, adjust the impeller back in the casing until the rubbing stops.