

Tech Notes

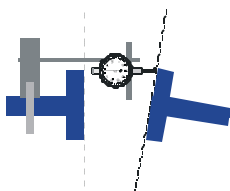
Face Dial Indicator Readings and Angular Misalignment



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Tech Notes: Face Dial Indicator Readings and Angular Misalignment



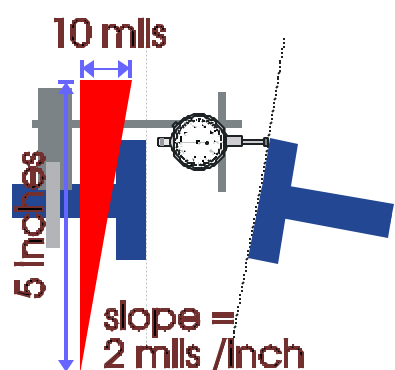
The *face* dial indicator is mounted parallel to the shafts with the plunger making axial contact on a coupling hub. The face indicator is used to measure coupling gap differences. To determine vertical coupling gap difference, the face indicator is set to zero at a vertical position (12:00 or 6:00) and rotated 180 degrees. To determine horizontal coupling gap difference, the face indicator is set to zero at a horizontal position (9:00 or 3:00) and rotated 180 degrees.

This process **does not** give results in units that are equivalent to an angle or slope. The measurement determines the vertical or horizontal *coupling gap difference* for the diameter of the circle that the face indicator scribes.

To determine angular misalignment, divide the coupling gap difference by the diameter of face dial indicator travel.

Example:

The face indicator is set to zero at 3:00. The indicator is rotated 180 degrees to 9:00. The face indicator reads 10 mils (.010"). The diameter of indicator travel is 5 inches.



The angular misalignment is determined by dividing the coupling gap difference by the diameter of indicator travel.
 $10 \text{ mils} / 5'' = 2.0/1''$

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