

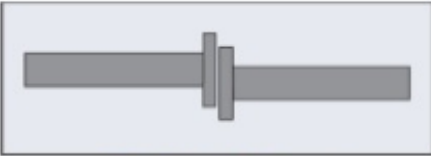
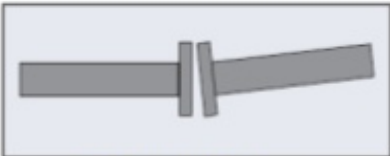


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Pump Alignment

Pump and motor shafts alignment is the process in which both the pump and motor are adjusted so the two shafts are collinear. The case of 100 % collinear shafts is never the case in real practice. However, there are acceptable tolerances for shafts misalignment. These tolerances are based on some standards or vendor recommendation. The alignment process is very important to rotating equipment because it improves the life of its internal mechanical components and reduce noise and vibration during operation. In this report, the described method is Rim and Face method and the given data and photos are for portable water booster pump with its driving motor.

Misalignment Types

Parallel or Offset Misalignment	Angular Misalignment
<p>The two shafts to be aligned are parallel but at a distance from each other.</p>  <p>Figure 6: Offset Misalignment</p>	<p>The two shafts to be aligned have an angle to each other.</p>  <p>Figure 7: Angular Misalignment</p>

Pump and Motor Specifications

The pump and motor to be aligned have the following specification

- Pump RPM is 3540
- Motor RPM is 3525
- Distance between shafts end (DBSE) is 177.8 mm



Figure 8: Manufacturer Pump Information

Reference Documents

- 1) SAES -G-005 Centrifugal Pumps 24 February 2008
- 2) API 686 – Recommended Practices for Machinery Installation and Installation Design 1996
- 3) Manufacturer’s Data Sheet and Instruction

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