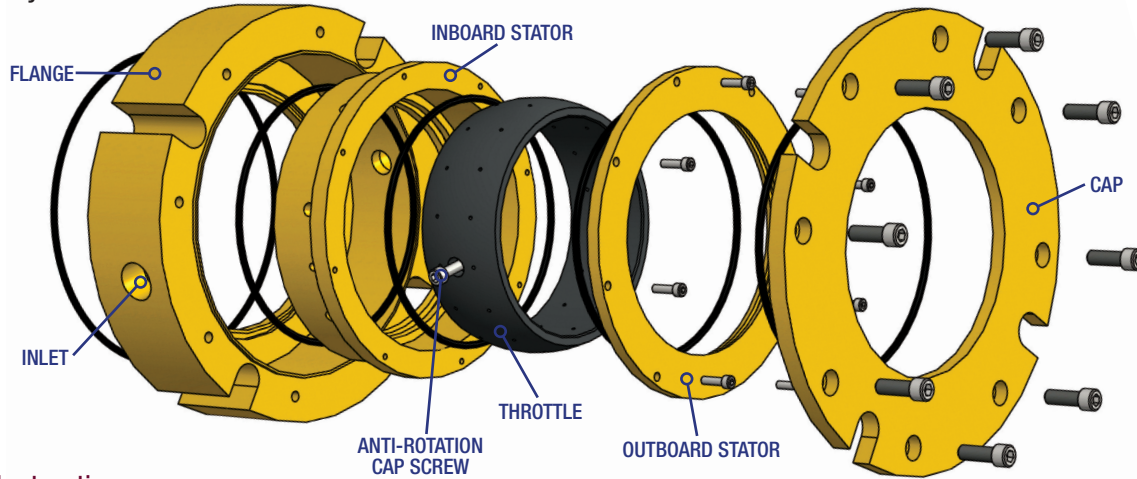


AIR MIZER® INSTALLATION INSTRUCTIONS

AM SMOOTH BORE (HT, ATEX), AM FOOD GRADE (ATEX) - SOLID

Supplied Components

- (1) AM Smooth Bore Solid Shaft Seal
- (3) Hex Keys



Installation Instructions

1- Check for Proper Throttle Movement and Articulation:

Ensure all internals move radially within the cap and flange by manually pushing the throttle and stator assembly back and forth within the seal. (figure A) *Note: Do not use prying tools or other objects to force the throttle assembly as this could cause damage to the throttle and sealing interface.*

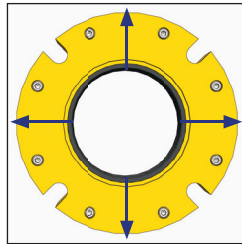


fig. A

2- Clean the Sealing Location:

Thoroughly clean the shaft surface where the Air Mizer shaft seal is to be installed to ensure the sealing location is free of debris before installation on the shaft. (figure B)

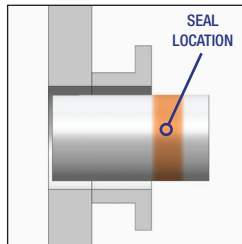


fig. B

3- Measure for Shaft Misalignment:

Use a machinist square, or other suitable instrument, to check for perpendicularity with respect to the stuffing box face or equipment housing. (figure C) Consult Inpro/Seal engineering if the measurement appears to be greater than 1.5 degrees out of square.

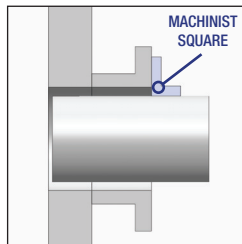


fig. C

4- Measure Radial Runout and Center:

If possible, measure the radial "run out" of the shaft with a dial indicator. This is best accomplished when the shaft is de-coupled and can be moved manually. Identify the shaft center in its rotating range. This will maximize capability of the Air Mizer shaft seal. (figure D) Consult Inpro/Seal engineering if the measurement appears to be greater than .125 in (3.175 mm).

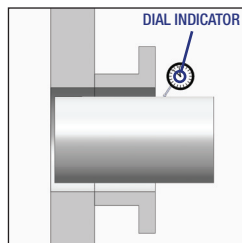


fig. D

5- Mate the Seal to the Vessel:

Align the Face Gasket, or apply a thin layer of sealant (typically RTV), to the seal against the stuffing box face or vessel housing. (figure E)

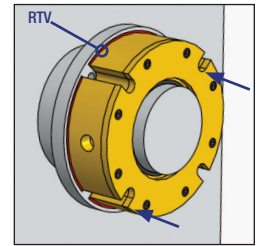


fig. E

6- Bolt the Seal to the Vessel:

Loosely bolt the seal to the vessel to hold it in place. (figure F)

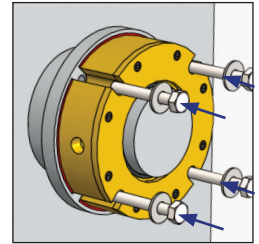


fig. F

7- Align the Seal:

To maximize the shaft misalignment and run-out capabilities, always install the Air Mizer shaft seal to as close to a centered position as practical. Place the three hex keys (provided) between the shaft and the stator to align the seal concentrically to the shaft. (figures G and H)

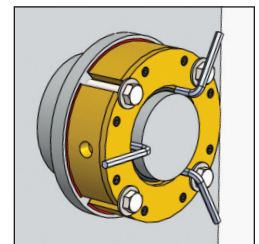


fig. G

(continue on back)

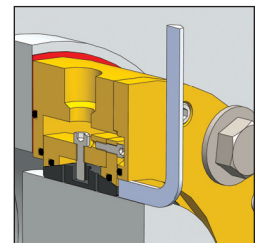


fig. H

AIR MIZER® INSTALLATION INSTRUCTIONS

AM SMOOTH BORE (HT, ATEX), AM FOOD GRADE (ATEX) - SOLID

Installation Instructions (cont.)

8- Secure the Seal:

Once the seal is aligned concentrically to the shaft, tighten the bolts to secure the seal to the vessel.

9- Supply Air/Gas to the Seal:

Plumb a 1/2" (or greater) air/gas line to the seal and install pressure gauge on opposite inlet (figure 1).

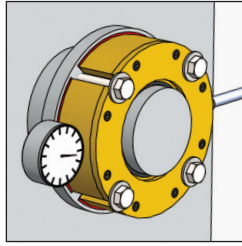


fig. 1

10- Set Air/Gas Pressure:

Set air/gas pressure to a minimum of 5-10 PSI (0.35-0.69 BAR) over stuffing box pressure.

Note: Air Mizer shaft seals require a constant supply of air/gas for proper function. Included is a proper schematic of an Air Mizer shaft seal air/gas supply setup. Always ensure air/gas flow prior to equipment setup.

Air Mizer Air/Gas Supply Schematic

- Each Air Mizer shaft seal should have a dedicated air/gas supply as shown in the schematic below. Multiple seals should never be operated from a single air/gas regulator.
- Piping- 1/2" (or greater) air/gas line is recommended.
- Pressure Gauge- The selected pressure gauge should have a full scale pressure where optimal pressure is the middle half (25% - 75%) of the scale. The full scale pressure should be approximately twice the intended operating pressure.

