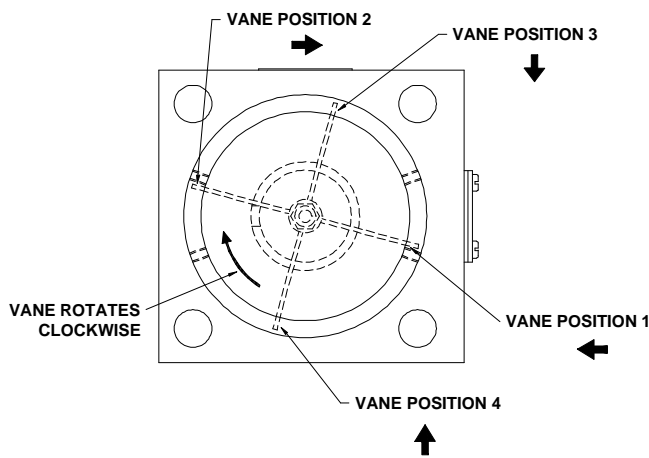# Installation Instructions
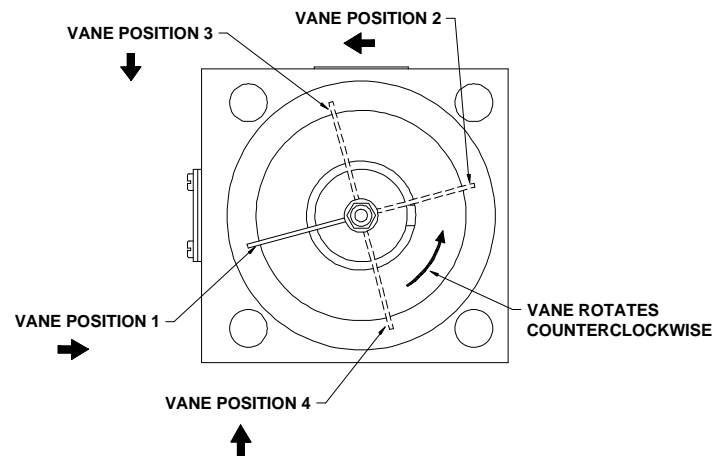# FLA-644 Series Adjustable Flow Gage Flange Assemblies

The flow gage should be mounted vertically in a straight section of pipe at least 5-10 pipe diameters away from any pumps, valves, or elbows. The minimum distance required will depend on your application.

Before mounting the flange assembly in the pipe, verify the vane is properly oriented for your oil flow direction.  (See diagrams to below)

If the vane needs to be repositioned do the following.

ARROWS SHOWN INDICATE FLOW DIRECTION
AS VIEWED FROM FRONT OF GAUGE
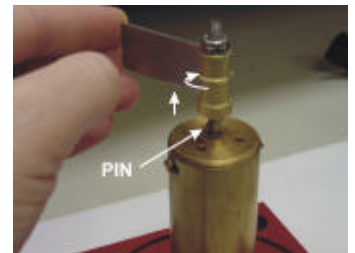(VANE SHOWN IN PUMP OFF POSITION)

ARROWS SHOWN INDICATE FLOW DIRECTION
AS VIEWED FROM BACK OF GAUGE
(VANE SHOWN IN PUMP OFF POSITION)

1.) Loosen the lock nut, by turning it counterclockwise six to eight full turns. *(Warning do not remove the nut.)*

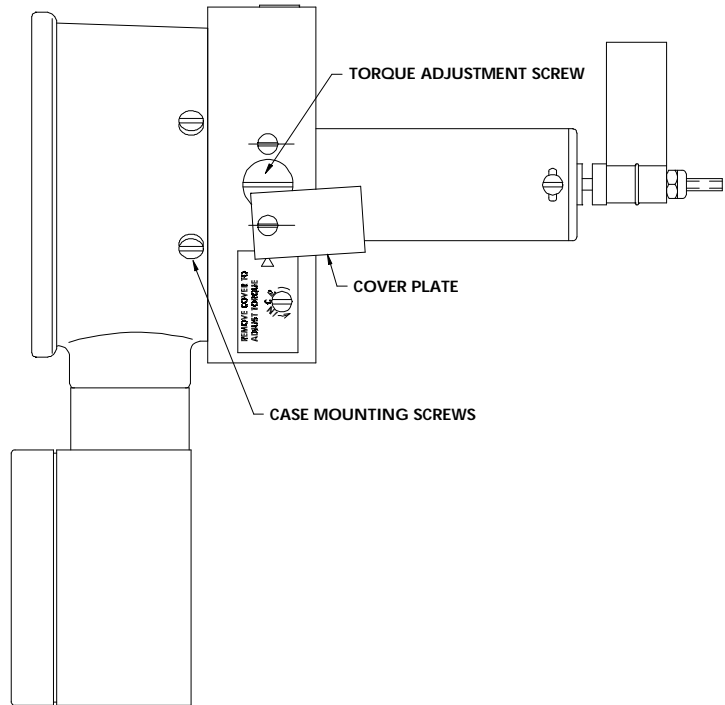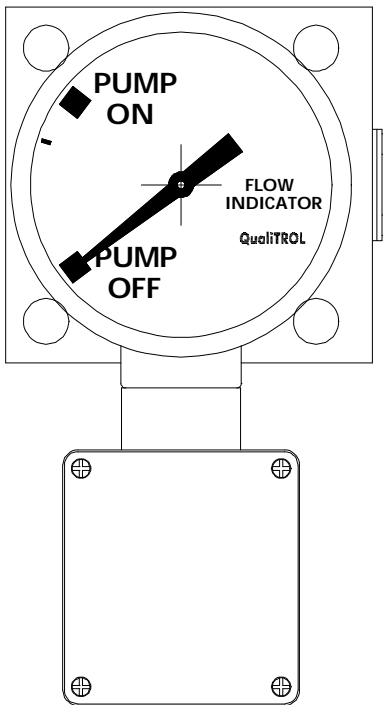2.)  Lift the vane up over the top of the pin and rotate it to the proper position.

3.) Then drop the vane back down over the pin and try turning it to make sure it is over the pin.

4.) Tighten the nut to 10 in /lbs. [1.1 n/m] max. by turning it clockwise until it is against the top of the vane.

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Install the Flange assembly into the pipe with the torque adjusting screw cover plate to the right hand side when viewed face on. Fit the case assembly to the flange using the four screws provided.



## Calibration Procedure

Loosen the two screws on the cover plate to reveal the torque adjusting screw. Turn the adjusting screw counterclockwise to increase the spring load to its maximum. Ensure that the pumps are wired correctly, rotating in the proper direction and that all the valves in the pipe system are open.

With the pumps running at full speed, lower the torque setting by slowly turning the adjusting screw clockwise until the pointer jumps to the pump on position. Then turn off the pump and the pointer should return to the pump off position. If the pointer flutters, it is likely the correct vane position was not chosen or the lock nut was not tightened sufficiently. Put the cover plate with gasket back in place and tighten the screws.

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