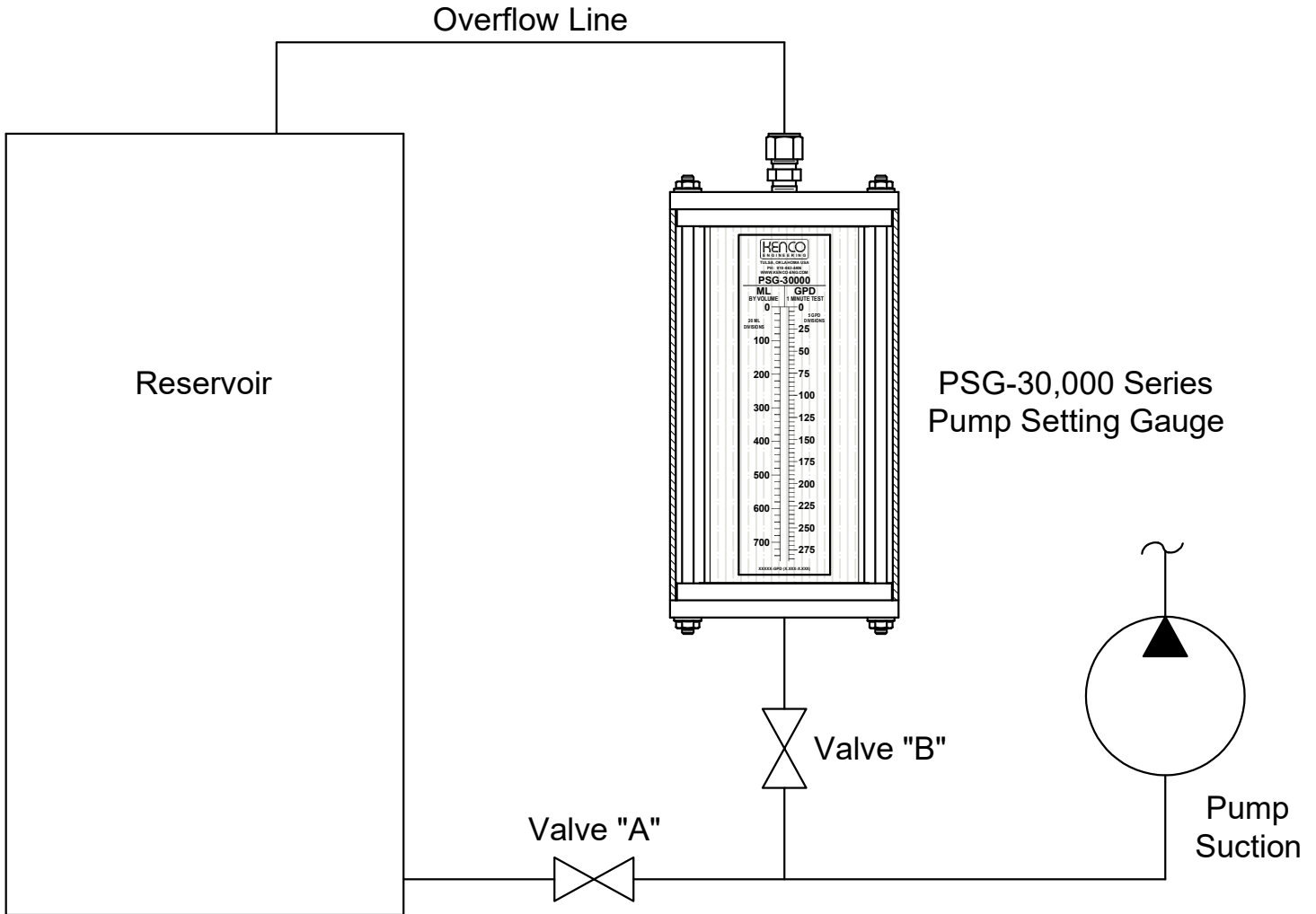


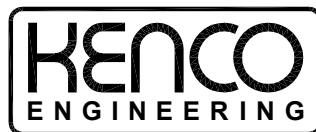
**Installation and Operating Instructions for Kenco Pump Setting Gauge Models  
PSG-30016, PSG-30030, PSG-30060, PSG-30096, PSG-30144, PSG-30216,  
PSG-30280, PSG-30420, PSG-30580, PSG-30700 and PSG-31440**



Install pipe fittings into gauge by rigidly clamping the END PLATE that is to have piping installed. Tighten the pipe fittings into the threaded connection of this END PLATE. GLASS SIGHT TUBE will BREAK if the END PLATE is not HELD RIGIDLY to eliminate any TWISTING.

**GAUGE MUST BE INSTALLED SO GRAVITY WILL FILL THE GAUGE.**

To check pumping rate, open Valve "B" to fill the pump setting gauge from reservoir. When the gauge is filled, close Valve "A" for one minute, and note the level in the gauge at the beginning of the test and at the end of the test. Count the number of marks on the rate scale that the level dropped. This is the pump rate.



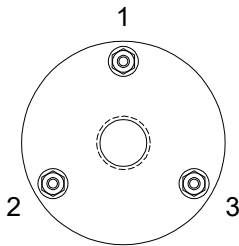
# Sight Tube Installation Instructions for Kenco Pump Setting Gauge Models PSG-30016, PSG-30030, PSG-30060, PSG-30096, PSG-30144, PSG-30216, PSG-30280, PSG-30420, PSG-30580, PSG-30700 and PSG-31440

1. Wipe off ends of sight tube and inspect for any damage.
2. Inspect sight tube seal groove in each end plate to ensure it is free of any damage or foreign materials which may interfere with sealing the PTFE envelope gaskets.
3. Thread hexagon nut onto one end of each stay rod until approximately 1/8" of rod is projecting through each nut.
4. Insert stay rods through holes on NPT side of lower end plate. Note: Lower end plate has  $\varnothing 3/16$ " condensate drain hole(s).
5. Place end plate with stay rods installed onto a solid flat surface with stay rods oriented in a vertical position.
6. Insert PTFE envelope gasket (solid face down) into lower end plate seal groove. See View "A" below for illustration.
7. Slide sight tube shield over stay rods and onto lower end plate.
8. With sight tube scale zero marks at the top, lower sight tube into shield until lower end of sight tube is inside pocket of PTFE envelope gasket.
9. Rotate sight tube as required so scales are visible between stay rods.
10. Place pocket of second PTFE envelope gasket onto upper end of sight tube.
11. Carefully lower upper end plate (NPT side up) onto stay rods, upper end of shield and sight tube PTFE envelope gasket.
12. Rotate upper end plate as required so stay rod holes in upper end plate line up with stay rod holes in lower end plate.
13. Gently compress all parts together by pressing down upper end plate with your hand.
14. While holding all parts securely in place, thread hexagon nuts onto upper end of each stay rod finger tight.
15. Carefully tilt gauge assembly over onto its side on a flat surface. Note: Ensure that flat surface is clean and non-abrasive so sight tube shield does not get damaged.
16. Place a wrench on stay rod hexagon nut on lower end of gauge.
17. Place a second wrench on stay rod hexagon nut on opposing end (upper end) of gauge and tighten 1/4 turn. Note: DO NOT tighten each hexagon nut any more than 1/4 turn at a time.
18. Repeat steps 16 and 17 using recommended nut tightening sequence illustrated below to allow even loading on sight tube.

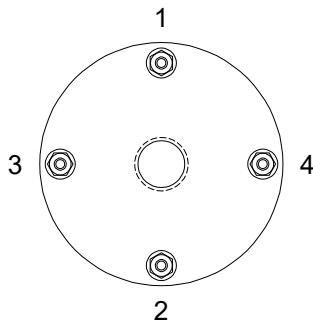
Hexagon Nut Tightening Torque:

- Hexagon nuts on gauges with (3) stay rods to be tightened to 40 inch pounds of torque.
- Hexagon nuts on gauges with (4) or (8) stay rods to be tightened to 50 inch pounds of torque.
- If a torque wrench is not readily available, tighten hexagon nuts 1 to 1-1/2 turns beyond finger tight.

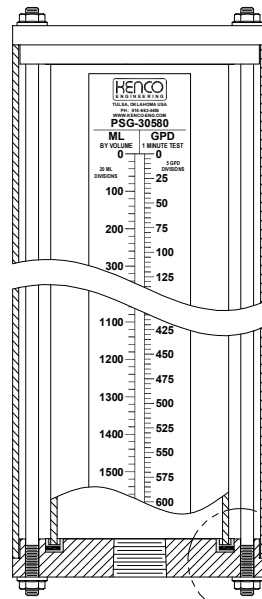
Recommended Nut  
Tightening Sequence  
(3) Stay Rods



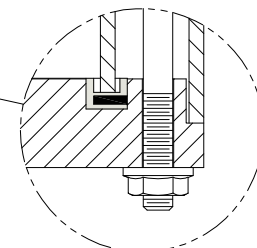
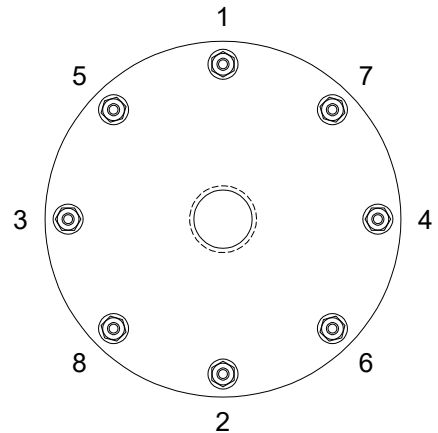
Recommended Nut  
Tightening Sequence  
(4) Stay Rods



Typical Gauge Assembly



Recommended Nut  
Tightening Sequence  
(8) Stay Rods



View "A"

