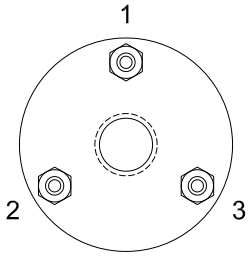
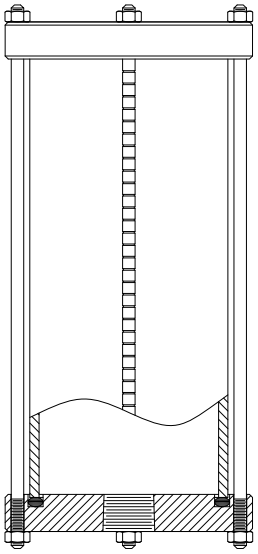
Kenco Stay Rod Type Pump Setting Gauges
(Model 30016, 30030, 30060, 30096, 30144, 30216, 30280, 30420, 30580 and 30700)
Sight Tube Installation Instructions

1. Take sight tube and carefully insert each end into o-ring groove of each end plate without o-ring in place to ensure that sight tube inside diameter and outside diameter will fit properly in groove. This is important due to the fact that sometimes sight tube is egg-shaped and will not allow for a proper fit. If a clearance problem is suspected, consult factory before attempting to assemble gauge.
2. Thread 1/4"-20UNC hexagon nut onto one end of each stay rod until approximately 1/16" of rod is through nut.
3. Inspect o-ring grooves in end plates to ensure that they are free of foreign materials which might interfere with o-ring seal.
4. Place end plate on a flat surface with o-ring groove side up.
5. Insert o-ring seal into groove in end plate.
6. Wipe off ends of sight tube.
7. Place o-ring seal into groove of second end plate and place into the palm of your hand with o-ring groove side up.
8. While still holding end plate in palm of your hand, position one end of sight tube on top of o-ring seal in groove and maintain position ensuring that sight tube is centered as close as possible.
   Note: It is very important that sight tube be centered in groove because if edge of sight tube is outside of groove, permanent damage to sight tube will occur.
9. Being careful to maintain proper position of sight tube and end plate/o-ring, place other end of sight tube on top of o-ring in end plate on table.
10. Compress all parts now in place together by pushing down on upper end plate with palm of your hand and insert stay rods through holes in upper end plate and into holes in lower end plate on table.
11. Place hexagon nuts on rod and upper end plate under palm of your hand while still holding all parts securely in place and invert gauge on table to allow access to exposed threads of stay rods on other end of gauge.
12. Thread hexagon nut onto end of each stay rod until each is hand tight.
13. Gently tilt assembled gauge over onto table allowing end plates to support sight tube.
14. Closely inspect sight tube to ensure that ends are still centered within o-ring grooves in end plates and carefully adjust its position at this time if necessary.
15. Place wrench on hexagon nut on preassembled end of stay rod.
16. Place wrench on hexagon nut on opposing end of gauge and tighten 1/4 turn. Ensure that you DO NOT tighten hexagon nuts any more than 1/4 turn at a time.
17. Repeat steps 15 and 16 using recommended nut tightening sequence illustrated below to allow even loading on sight tube.
    Note: Tighten hexagon nuts 1/4 turn at a time and only enough to give a positive seal. The maximum recommended torque on hexagon nuts is 5 inch pounds for gauges with (3) stay rods and 10 inch pounds for gauges with (4) stay rods.

Recommended Nut Tightening Sequence
(3) Stay Rods

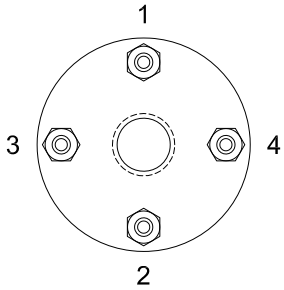


Maximum Recommended Torque:
5 inch pounds



Typical Gauge Assembly

Recommended Nut Tightening Sequence
(4) Stay Rods



Maximum Recommended Torque:
10 inch pounds

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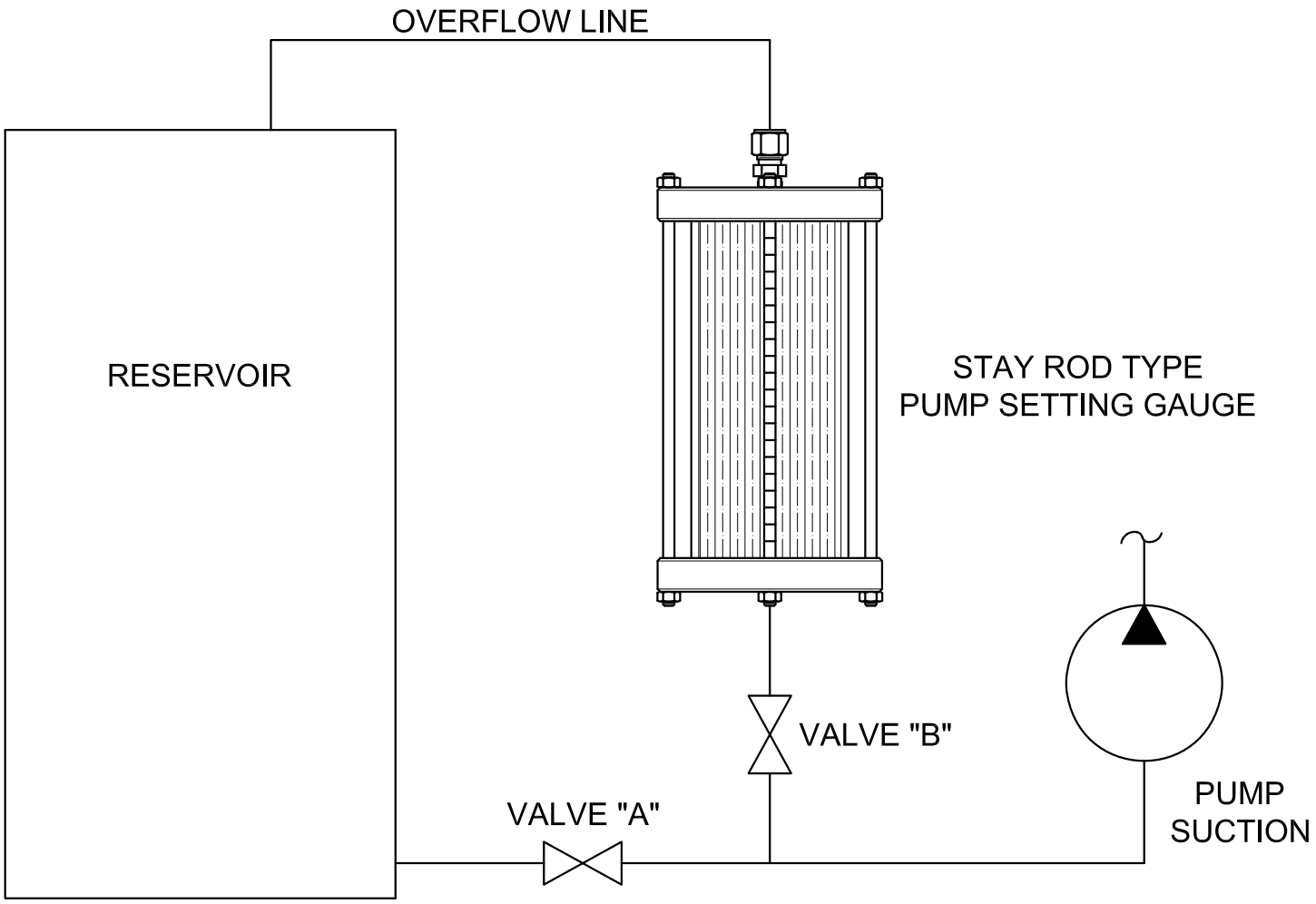
30,000 SERIES STAY ROD TYPE PUMP SETTING GAUGE
INSTALLATION AND OPERATING INSTRUCTIONS



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. 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.

KENCO ENGINEERING

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