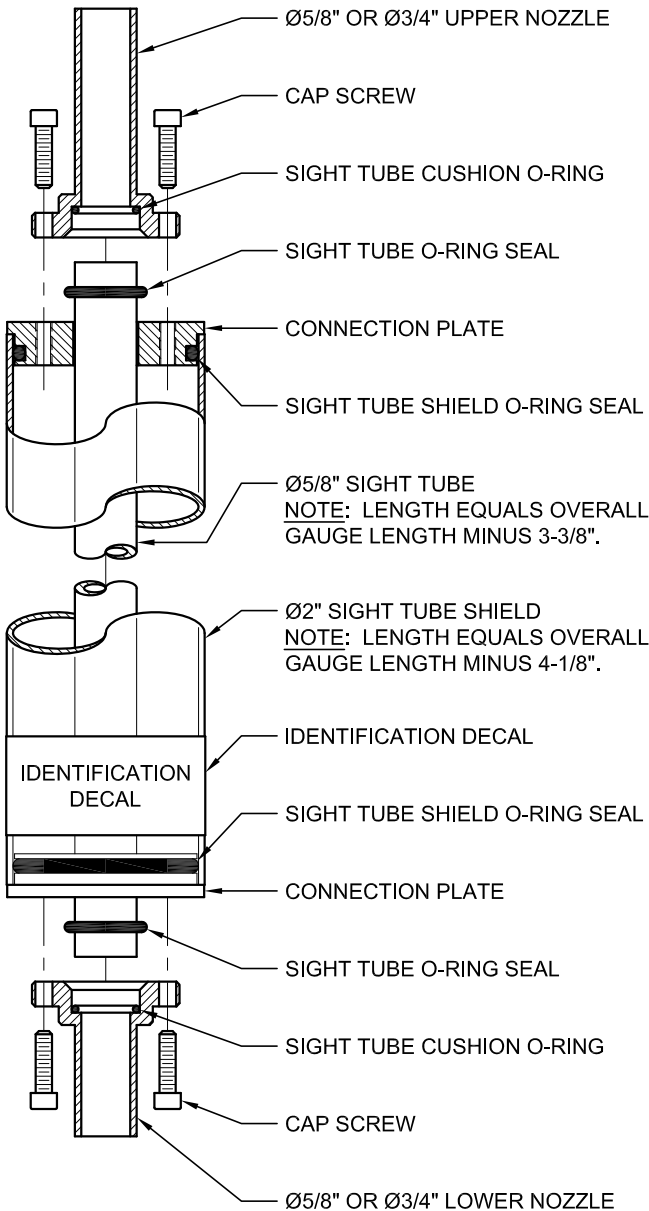



KENCO MODEL "EPG" GAUGE KIT ASSEMBLY INSTRUCTIONS

- MEASURE CENTER-TO-CENTER DISTANCE BETWEEN GAUGE GLASS VALVE VESSEL CONNECTIONS. USE VALVE MANUFACTURER'S RECOMMENDED GAUGE GLASS SUBTRACTOR TO DETERMINE THE OVERALL LENGTH OF THE KENCO MODEL "EPG" LEVEL GAUGE. **NOTE:** IT MAY BE NECESSARY TO SIMPLY MEASURE THE OVERALL LENGTH OF THE EXISTING GAUGE GLASS TO DETERMINE THE OVERALL LENGTH OF THE "EPG" LEVEL GAUGE IF INFORMATION ON EXISTING GAUGE GLASS VALVES IS NOT AVAILABLE.
- CUT OVERALL LENGTH OF THE $\varnothing 5/8$ " "EPG" SIGHT TUBE 3-3/8" SHORTER THAN THE OVERALL LENGTH DETERMINED FOR GAUGE. CUT AS SQUARE AS POSSIBLE REMOVING ANY SHARP EDGES. THIS WILL HELP AVOID DAMAGING O-RING SEALS DURING ASSEMBLY. **NOTE:** CUT OFF RED LINE ADHESIVE TAPE 1/2" FROM EACH END OF SIGHT TUBE TO ALLOW FOR A POSITIVE O-RING SEAL.
- CUT OVERALL LENGTH OF THE $\varnothing 2$ " "EPG" SIGHT TUBE SHIELD 4-1/8" SHORTER THAN THE OVERALL LENGTH DETERMINED FOR GAUGE. CUT AS SQUARE AS POSSIBLE REMOVING ANY SHARP EDGES AND BURRS. CARE SHOULD ALSO BE TAKEN WHEN CUTTING TO AVOID SCRATCHING THE OUTER SURFACE. **NOTE:** THE "EPG" IDENTIFICATION DECAL IS LOCATED ON THE LOWER END OF THE SIGHT TUBE SHIELD. IT CONTAINS THE "EPG" GAUGE KIT MODEL NUMBER AND PRESSURE RATINGS BASED ON OVERALL GAUGE LENGTH AND THE TYPE OF GLASS SUPPLIED WITH THE GAUGE KIT. IT IS IMPORTANT THAT THIS DECAL REMAIN ON THE "EPG" GAUGE ASSEMBLY AFTER INSTALLATION.
- ASSEMBLE GAUGE AS SHOWN BELOW. MAKE SURE CONNECTION PLATES ON EACH END OF SIGHT TUBE SHIELD ARE PRESSED FIRMLY AGAINST EACH END OF THE SQUARELY CUT SIGHT TUBE SHIELD TO HELP ENSURE THAT LOWER AND UPPER NOZZLES WILL BE PARALLEL WITH EACH OTHER AFTER FINAL GAUGE ASSEMBLY.
- TIGHTEN CAP SCREWS EVENLY IN AN ALTERNATING PATTERN TO ENSURE THAT LOWER AND UPPER NOZZLE BASES ARE FLAT AGAINST THE FACE OF THE CONNECTION PLATES AFTER ASSEMBLY IS COMPLETE. THIS ALSO HELPS TO ENSURE THAT LOWER AND UPPER NOZZLES WILL BE PARALLEL WITH EACH OTHER AFTER FINAL ASSEMBLY.



"EPG" GAUGE KIT IDENTIFICATION DECALS




Tulsa, Oklahoma USA
Ph: 918-663-4406
www.kenco-eng.com

Kenco Patent No. 5,442,959
Kit Model: **EPG-X-X-GSRL**

EPG Pressure Ratings (GSRL Glass)			
Overall (Inches)	Visual (Inches)	Glass (Inches)	*Pressure (PSIG)
12	7-1/4	8-5/8	210
24	19-1/4	20-5/8	184
36	31-1/4	32-5/8	170
48	43-1/4	44-5/8	147
52-3/4	48	49-3/8	137

*Ratings for Non-Steam Applications

DECAL FOR GAUGE KITS WITH "GSRL" GLASS SIGHT TUBE




Tulsa, Oklahoma USA
Ph: 918-663-4406
www.kenco-eng.com

Kenco Patent No. 5,442,959
Kit Model: **EPG-X-X-HPRL**

EPG Pressure Ratings (HPRL Glass)			
Overall (Inches)	Visual (Inches)	Glass (Inches)	*Pressure (PSIG)
12	7-1/4	8-5/8	430
24	19-1/4	20-5/8	345
36	31-1/4	32-5/8	264
48	43-1/4	44-5/8	209
52-3/4	48	49-3/8	189

*Ratings for Non-Steam Applications

DECAL FOR GAUGE KITS WITH "HPRL" GLASS SIGHT TUBE




Tulsa, Oklahoma USA
Ph: 918-663-4406
www.kenco-eng.com

Kenco Patent No. 5,442,959
Kit Model: **EPG-X-X-HWRL**

EPG Pressure Ratings (HWRL Glass)			
Overall (Inches)	Visual (Inches)	Glass (Inches)	*Pressure (PSIG)
12	7-1/4	8-5/8	500
24	19-1/4	20-5/8	500
36	31-1/4	32-5/8	500
48	43-1/4	44-5/8	385
51-3/8	46-5/8	48	340

*Ratings for Non-Steam Applications

DECAL FOR GAUGE KITS WITH "HWRL" GLASS SIGHT TUBE



Tulsa, Oklahoma USA
Ph: 918-663-4406
www.kenco-eng.com

Kenco Patent No. 5,442,959
Kit Model: **EPG-X-X-RL**

EPG Pressure Ratings (RL Glass)			
Overall (Inches)	Visual (Inches)	Glass (Inches)	*Pressure (PSIG)
12	7-1/4	8-5/8	362
24	19-1/4	20-5/8	286
36	31-1/4	32-5/8	221
48	43-1/4	44-5/8	176
52-3/4	48	49-3/8	160

*Ratings for Non-Steam Applications

DECAL FOR GAUGE KITS WITH "RL" GLASS SIGHT TUBE

"EPG" INSTALLATION INSTRUCTIONS

- ENSURE THAT GAUGE GLASS VALVES ARE CLOSED AND ALL PRESSURE HAS BEEN RELIEVED IF REPLACING AN EXISTING VESSEL SIGHT GLASS.
- REMOVE GLASS PACKING NUT, SEAL COMPRESSION WASHER AND SEAL FROM GAUGE GLASS VALVE SET. LOOSENING GLASS PACKING NUT MAY BE THE ONLY OPERATION REQUIRED ON SOME VALVES REQUIRING MINIMAL GLASS ENGAGEMENT.

CAUTION:

GREAT CARE SHOULD BE TAKEN IF REPLACING AN EXISTING VESSEL SIGHT GLASS. LOOSENING OR REMOVAL OF VALVE GLASS PACKING NUTS CAN RESULT IN A HAZARDOUS CONDITION IN WHICH PRESSURIZED LIQUID MAY BE RELEASED AND WHICH MAY RESULT IN INJURY OR DAMAGE. MAKE SURE TO TAKE PROPER PRECAUTIONS FOR SAFETY, HANDLING AND DISPOSAL OF ANY HAZARDOUS LIQUIDS.

- SLIDE GLASS PACKING NUT, SEAL COMPRESSION WASHER AND SEAL ONTO $\varnothing 5/8$ " OR $\varnothing 3/4$ " NOZZLE ON EACH END OF KENCO MODEL "EPG" LEVEL GAUGE. IT MAY BE DESIRABLE TO LUBRICATE SEAL PRIOR TO ASSEMBLY TO ALLOW EASIER INSTALLATION.
- ENSURE THAT GAUGE GLASS VALVE SIGHT TUBE CONNECTIONS ARE LINED UP AS CLOSE AS POSSIBLE. IMPROPER ALIGNMENT CAN LEAD TO STRESS ON THE "EPG" SIGHT TUBE.
- INSERT UPPER NOZZLE OF "EPG" GAUGE ASSEMBLY INTO STUFFING BOX OF UPPER GAUGE GLASS VALVE AS FAR AS IT WILL GO AND THEN SWING LOWER END OF "EPG" GAUGE ASSEMBLY OVER UNTIL LOWER NOZZLE IS ALIGNED WITH CENTER OF LOWER GAUGE GLASS VALVE STUFFING BOX.
- INSERT LOWER NOZZLE OF "EPG" GAUGE ASSEMBLY INTO LOWER GAUGE GLASS VALVE STUFFING BOX UNTIL END OF NOZZLE RESTS ON GLASS STOP INSIDE VALVE.
- THREAD LOWER GAUGE GLASS VALVE GLASS PACKING NUT ONTO VALVE AND TIGHTEN.
- HOLD "EPG" GAUGE ASSEMBLY DOWN FIRMLY IN PLACE AND THREAD UPPER GAUGE GLASS VALVE GLASS PACKING NUT ONTO VALVE AND TIGHTEN.

IMPORTANT:

HOLDING "EPG" GAUGE ASSEMBLY FIRMLY IN PLACE WHILE TIGHTENING VALVE GLASS PACKING NUTS IS RECOMMENDED TO PREVENT PULLING NOZZLE CONNECTION ASSEMBLIES ON EACH END OF LEVEL GAUGE OFF OF THE SIGHT TUBE.

"EPG" OPERATING INSTRUCTIONS

THE KENCO MODEL "EPG" GAUGE HAS A $\varnothing 5/8$ " TUBULAR GLASS SIGHT TUBE AND CAN STAND MINIMAL SHOCK. TO AVOID THERMAL SHOCK ON TUBULAR GLASS, GAUGE GLASS VALVES SHOULD BE OPENED SLOWLY TO ALLOW GLASS TEMPERATURE AND PRESSURE TO EQUALIZE WITH VESSEL.

"EPG" MAINTENANCE INSTRUCTIONS

GAUGE SHOULD BE REMOVED FROM SERVICE FOR PROPER CLEANING. THIS SHOULD ONLY BE UNDERTAKEN BY QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH GAUGE GLASS VALVES AND THEIR OPERATION.

IMPORTANT:

GAUGE SHOULD NOT BE STEAM CLEANED. SHIELD ENCLOSING SIGHT TUBE IS MADE OF CLEAR POLYCARBONATE AND WILL LIKELY BE DAMAGED SHOULD THIS OCCUR.

