



SUPERIOR PRODUCTS

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ESG-IOM

Environmental Sealed Gauge Glass

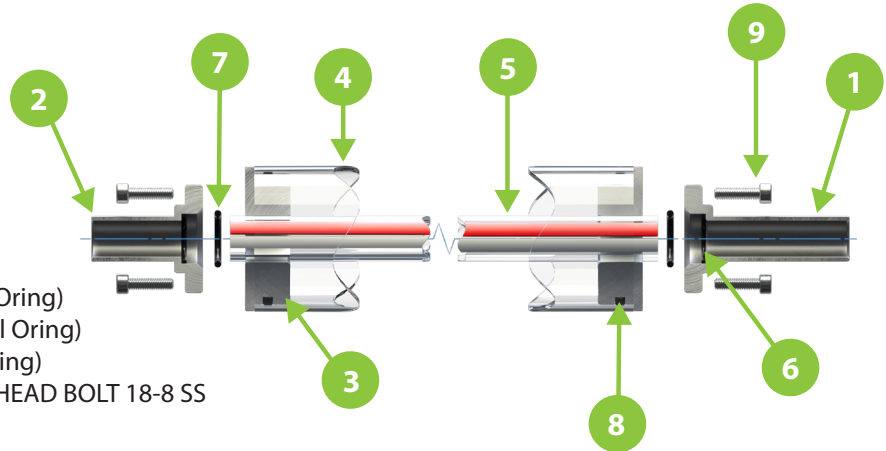


Environmental Sealed Gauge



PARTS

1. 5/8" UPPER NOZZLE
2. 5/8" LOWER NOZZLE
3. SHIELD BUSHING
4. SIGHT TUBE SHIELD
5. SIGHT TUBE
6. 015 Oring (Cushion Oring)
7. 114 Oring (Glass Seal Oring)
8. 223 Oring (Shield Oring)
9. 8-32 X 5/8" SOCKET HEAD BOLT 18-8 SS



ESG 101

Using Center to Center Dimension: Take the dimension given and subtract the below subtractor for the corresponding gauge valve brand and type to determine the overall length. Subtract 4 1/8" from your over all length for your polycarbonate length, add 3/4" to the polycarbonate length to determine the length of glass.

Using Overall Length Dimension: Take the dimension given and subtract 4-1/8" to determine your polycarbonate length, then add 3/4" for your glass length

Example:

You have a 48" Center to Center dimensions and are using Superior STV gauge Valves:

$48'' - 2'' = 46''$ (This is your Overall length)

$46'' - 4-1/8'' = 41-7/8''$ (This is your polycarbonate length)

$41-7/8'' + 3/4'' = 42-5/8''$ (This is your Glass Length)

You have a 48" Overall length dimensions:

$48'' - 4-1/8'' = 43-7/8''$ (This is your polycarbonate length)

$43-7/8'' + 3/4'' = 44-5/8''$ (This is your Glass Length)

VALVE TYPE	SUBTRACTOR	VALVE TYPE	SUBTRACTOR
Superior: STV50 & STV75	2"	Penberthy: N7A & N7B	2"
Superior: 50-05000	1 1/8"	Penberthy: N6A	1 5/8"
Kenco: KTV50 & KTV75	2"	Penberthy: N2AJ,BJ,CJ	1 3/4"
Jerguson:	1 3/8"	Combraco: 20 series	1 1/4"
United Brass: 34035	1 1/8"	Combraco: 23,24,25 series	2"



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INSTALLATION INSTRUCTIONS

1. Ensure that gauge valves are closed, and all pressure has been released if you are replacing an existing vessel sight glass.
2. Remove glass packing nut, seal, and washer from the gauge glass valve set. Loosening glass packing nut may be the only operation required on some valves requiring minimal glass engagement.

CAUTION:

Great care shall be taken if replacing existing vessel sight glass. Loosening or removal of valve glass packing nuts can result in hazardous condition in which pressurized liquid may be released and which may result in injury or damage. Be sure to take proper safety precautions, handling and disposal of any hazardous liquids.

3. Slide glass packing nut, seal, washer onto Ø5/8" or Ø3/4" nozzle on each end of the ESG Level Gauge. It may be desirable to lubricate seal prior to assembly to allow easier installation.
4. Ensure that gauge glass valve sight tube connections are lined up as close as possible. Improper alignment can lead to stress on the ESG Sight Tube.
5. Insert the upper nozzle of the ESG Assembly into the stuffing box of the upper gauge glass valve as far as it will go and then swing the lower end of the ESG Assembly over until the lower nozzle is aligned with the center of the lower gauge glass valve stuffing box.
6. Insert the lower nozzle of the ESG Assembly into the stuffing box of the lower gauge glass valve until the end of the nozzle rests on the glass stop inside the valve.
7. Thread lower gauge glass valve packing nut onto the valve and tighten.
8. Hold the ESG Assembly down firmly in place and thread upper gauge glass valve glass packing nut onto the valve and tighten.

IMPORTANT:

Holding the ESG Assembly firmly in place while tightening the valve glass packing nuts is recommended to prevent from pulling the nozzle connection assemblies on each end of the level gauge off of the sight tube.

ESG OPERATING INSTRUCTIONS

The ESG has a Ø5/8" tubular glass sight tube and can stand minimal shock. To avoid thermal shock on the tubular glass, gauge glass valves should be opened slowly to allow glass temperature and pressure to equalize with the vessel.

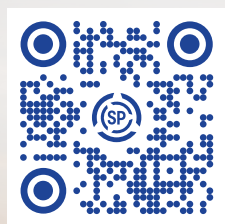
ESG MAINTENANCE INSTRUCTIONS

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.

WARNING: SUPERIOR PRODUCTS IS NOT RESPONSIBLE FOR IMPROPER INSTALLATION. IMPROPER INSTALLATION CAN CAUSE GLASS BREAKAGE, WHICH MAY RESULT IN BODILY INJURY AND DANGEROUS ACCIDENTS.



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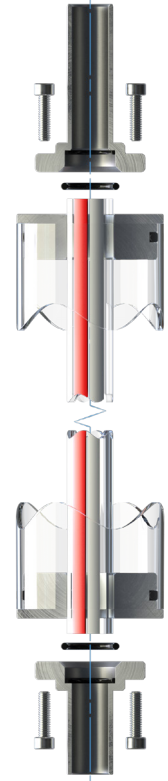


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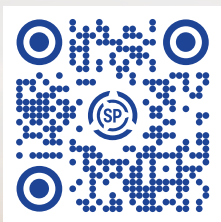
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ESG KIT ASSEMBLY INSTRUCTIONS

1. 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 ESG level gauge. NOTE: It may be necessary to simply measure the overall length of the ESG level gauge if the information on existing gauge glass valves is not available.
2. Cut the overall length of Ø5/8" ESG sight tube 3-3/8" shorter than the overall length determined for your gauge. Cut as square as possible and remove all sharp edges before installation, this will help avoid damaging orings during installation.
3. Cut the overall length of the 2" ESG sight tube shield 4-1/8" shorter than the overall length determined for your gauge. Cut as square as possible and remove all sharp edges and burrs. Also, when cutting care shall be taken to avoid scratching or damaging the outer surface of the sight tube shield. NOTE: The ESG part identification decal is located on the lower end of the sight tube shield. It contains the ESG kit model number and pressure ratings based on overall gauge length and the type of glass supplied with the kit. It is important to not remove or hinder legibility of this decal during installation and assembly, at all times it shall remain on the assembly.
4. Assemble gauge as shown (right). Make sure connection plates on each end of the 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 assembly.
5. 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.



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