



## LIQUID LEVEL GAUGES

### SAFEGUARD SERIES LEVEL GAUGE

(SHIELDED TUBULAR LIQUID LEVEL GAUGE, U.S. Patent Number 4693117)



#### APPLICATION:

The Safeguard liquid level gauge replaces unprotected tubular glass that is mounted between tubular gauge glass valves. The packing nut on the tubular valve tightens around the metal nozzles of the Safeguard gauge, not glass! Nozzles match the O.D. of 5/8" glass or 3/4" glass. Gauge is suitable for low to medium pressure applications to 500 psig.

#### SAFETY:

Sight tube is totally enclosed on three sides by a metal frame and on the front with a shield.

#### ONE PIECE ASSEMBLY:

One continuous gauge provides total visibility of the liquid level of a tank. Maximum length is 25 feet. No stacking of gauges is needed.

#### ECONOMICAL:

One Liquid Level Gauge per tank with a set of KENCO tubular valves gives the full view of the liquid level in the tank.

#### EASY TO INSTALL:

Insert the 5/8" or 3/4" metal nozzles into the existing valves. The stuffing box seals around the metal nozzle, not the glass.

#### VOLUME AND HEIGHT SHIELDS:

The shield can be supplied with various scales indicating height, calibration rate, or tank volume. Refer to page 12 to see the assortment of standard shield options.

### EPG SERIES LEVEL GAUGE

(ENVIRONMENTAL PROTECTION GAUGE, U.S. Patent Number 5442959)

#### APPLICATION:

The KENCO Environmental Protection Gauge protects the glass with a 360° UV stabilized polycarbonate tube. This gauge is ideal for an outdoor environment where the gauge is exposed to the elements (i.e. hail, wind, etc.). The gauge is priced to be an economic alternative to a tubular gauge glass shrouded by expanded metal. The EPG will operate in low to medium pressure applications to 500 psig.

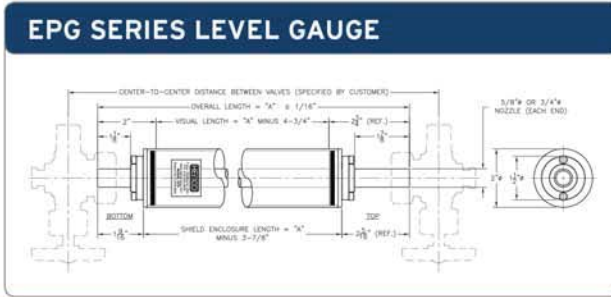
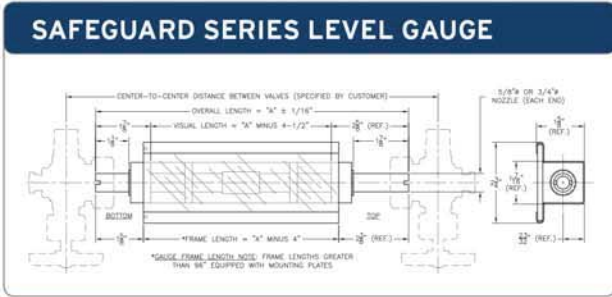
#### FEATURES:

- Replaces unprotected tubular gauge glass.
- 360° visibility of fluid level.
- Redline glass is standard for easy viewing of fluid level.
- The tubular valve packing nut tightens around 316 S.S. nozzles, not glass!
- Outer tube is high impact UV stabilized polycarbonate tubing.
- 316 S.S. nozzles available in 5/8" O.D. or 3/4" O.D.
- Maximum overall length is 52-3/4". For longer lengths, use Safeguard Level Gauge.
- Easy to install - Insert the 5/8" O.D. or 3/4" O.D. nozzles into the valves.
- Ideal for use with KENCO Tubular Valves (KTV).





# MODERN ENGINEERED PRODUCTS, INC.



## ORDERING SYSTEM

REQUESTED BY: \_\_\_\_\_ COMPANY: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_ EMAIL: \_\_\_\_\_

### SAFEGUARD SERIES LEVEL GAUGE

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Gauge Style</b> 62=5/8" O.D. Tubular Connection 75=3/4" O.D. Tubular Connection	<b>Center-to-Center Dimension (inches)</b>	<b>Material of Construction</b> C=Zinc Plated Carbon Steel A=Stainless Steel W=316 Stainless Steel Wetted Parts w/ Carbon Steel Frame PC= PVC Wetted Parts w/ Carbon Steel Frame PS= PVC Wetted Parts w/ Stainless Steel Frame Other (please specify)	<b>Seal Material</b> V=Fluorocarbon A=Aflas B=Buna-N T=PTFE E=Ethylene Propylene
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Shield Options</b> L=Clear Polycarbonate H=Height Scale RH=Rate Height Scale MH=Metric Height Scale MRH=Metric Rate Height Scale M=Expanded Metal Guard	<b>Sight Tube Options**</b> GS=5/8" O.D. Glass (Standard) RL=5/8" O.D. Redline Glass	<b>Maximum Working Pressure (PSIG)</b>	<b>Maximum Operating Temperature (°F)</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Steam</b> S=Steam Application NS=Non-Steam Application	<b>Valve Manufacturer</b> KENCO Other (Please Specify)	<b>Valve Manufacturers Part #</b> KTV Other (Please Specify)	To Be Determined By KENCO

### EPG SERIES LEVEL GAUGE

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Gauge Style</b> EPG-5/8=5/8" O.D. Tubular Connection EPG-3/4=3/4" O.D. Tubular Connection	<b>Center-to-Center Dimension (inches)</b>	<b>Seal Material</b> V=Fluorocarbon A=Aflas B=Buna-N T=FEP Encapsulated Silicone E=Ethylene Propylene	<b>Sight Tube Option</b> RL=5/8" O.D. Redline Glass	<b>Maximum Working Pressure (PSIG)</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Maximum Operating Temperature (°F)</b>	<b>Steam</b> S=Steam Application NS=Non-Steam Application	<b>Valve Manufacturer</b> KENCO Other (Please Specify)	<b>Valve Manufacturers Part #</b> KTV Other (Please Specify)	To Be Determined By KENCO

\*\* Based on application data provided, KENCO will select the appropriate sight tube material, i.e. high pressure glass.



# MODERN ENGINEERED PRODUCTS, INC.

## TUBULAR GLASS GAUGE VALVES (GAUGE COCKS)

### KTV TUBULAR VALVES FOR LIQUID LEVEL GAUGES



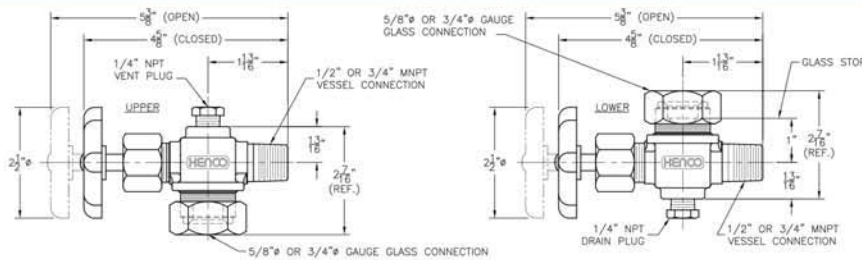
#### APPLICATION:

The KENCO Tubular Valve (KTV), when used with a KENCO "SAFEGUARD" level gauge or KENCO "EPG" level gauge, provides maximum operator safety and environmental protection from a potential gauge glass failure. The KTV is designed for service in low to medium pressure applications up to 500 psig.

#### FEATURES:

- Available in carbon steel or 316 stainless steel
- The 1/8" thick stuffing box O-ring provides easy installation of the glass and requires less wrenching of the packing nut to seal
- Positive O-ring seal gauge glass connection
- 1/2" or 3/4" MNPT rigid vessel connections
- Ball check shut off will protect tank inventory
- Straight pattern design
- Braided PTFE stem packing
- All valves are supplied with 316 S.S. valve stems, ball checks and glass packing washer
- The bodies are precision cast investment castings with each body pressure tested to assure quality
- When ball checks are removed, KTV is suitable for steam applications
- Flanged vessel connections available

### KTV TUBULAR VALVES



### ORDERING SYSTEM

#### KTV Tubular Valves

REQUESTED BY: \_\_\_\_\_ COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_ EMAIL: \_\_\_\_\_

<b>KTV</b>				
<b>Valve Style</b>		<b>Valve Body Material</b>	<b>Seal Material</b>	<b>Maximum Working Pressure (PSIG)</b>
<b>Process Connections</b>		SS=316 Stainless Steel CS=Zinc Plated Carbon Steel	V=Fluorocarbon A=Aflas B=Buna-N T=FEP Encapsulated Silicone E=Ethylene Propylene	
50=1/2" MNPT w/ 5/8" O.D. Gauge Glass Connection 75=3/4" MNPT w/ 3/4" O.D. Gauge Glass Connection 50FL=1/2" 150# R.F. Flange and 3/4" O.D. Gauge Glass Connection 75FL=3/4" 150# R.F. Flange and 3/4" O.D. Gauge Glass Connection 10FL=1" 150# R.F. Flange and 3/4" O.D. Gauge Glass Connection 15FL=1-1/2" 150# R.F. Flange and 3/4" O.D. Gauge Glass Connection 20FL=2" 150# R.F. Flange and 3/4" O.D. Gauge Glass Connection 10FL300=1" 300# R.F. Flange and 3/4" O.D. Gauge Glass Connection 15FL300=1-1/2" 300# R.F. Flange and 3/4" O.D. Gauge Glass Connection 20FL300=2" 300# R.F. Flange and 3/4" O.D. Gauge Glass Connection				
			<b>Maximum Operating Temperature (°F)</b>	<b>Steam</b>
				S=Steam Application NS=Non-Steam Application

• Example Order Number: KTV50-SS-B-100-AMB-NS