

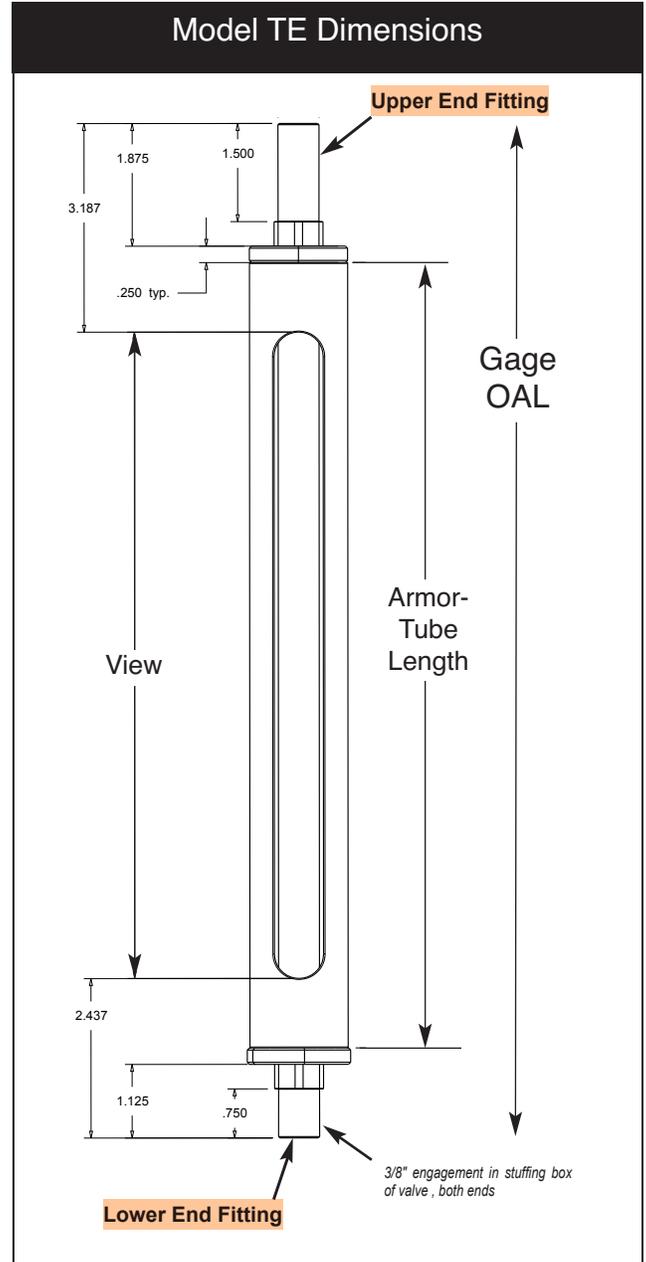
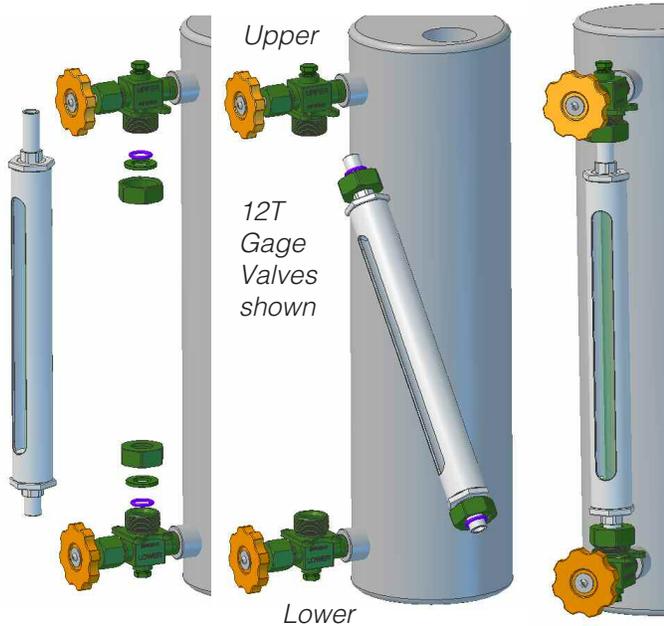
# Model TE - Armored Tubular Level Sight Gage

315 PSI @ 150°F    275 PSI @ 400°F (non Steam)

for Oil, Water, Gas... use with tubular gage cocks: 12T, FT-TUB etc

*replaces 5/8" diameter bare glass tube*

CRN 0F19193.5C



## SIZING...

start with Valve Center-to-Center distance on vessel:

*for valve Models 12T, FT-TUB, N7A*

**TE Gage OAL = Valve C-C less 2"**

**View = Valve C-C less 7.625"**

*for valve Model 15T*

**TE Gage OAL = Valve C-C less 1.625"**

**View = Valve C-C less 7.25"**

Standard Model TE gage is supplied with a 1-7/8" long Upper End Fitting and a 1-1/8" long Lower End Fitting, as shown, so that

**Sizing Tolerance:** Gage will assemble on specified vessel centers with tolerance of + 1/8" or - 1/4" from nominal.

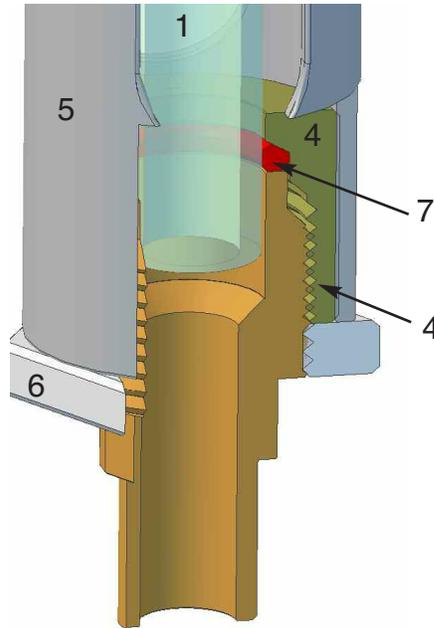
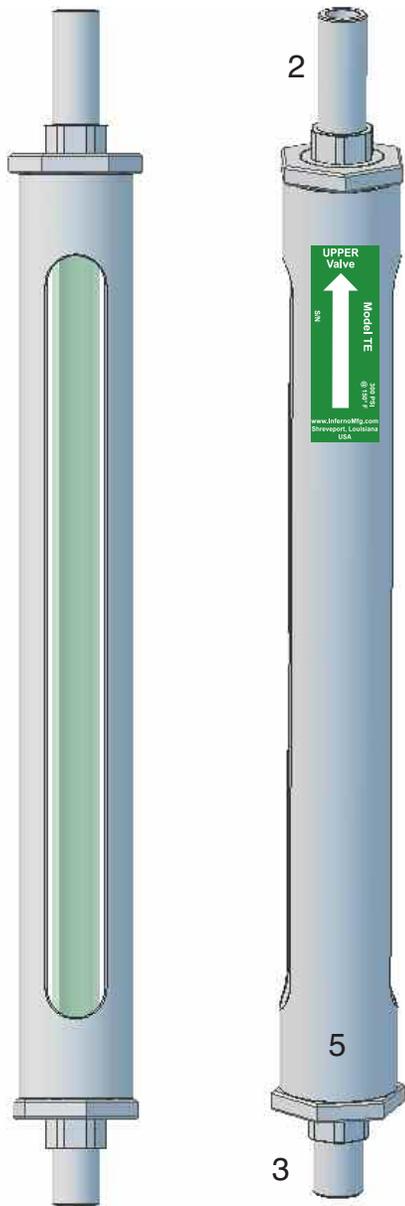
**Field Modifications:** Use formulas above to determine the required TE gage OAL. Measure gage OAL. If OAL is too *short*, longer End Fittings (Upper and /or Lower) can be ordered and changed in the field. If OAL is too *long*, Upper End Fitting can be shortened by up to 3/8"

**Glass Replacement Length = Armor Tube Length less 3/4"**

**Gage OAL = Armor Tube Length + 3.5"**

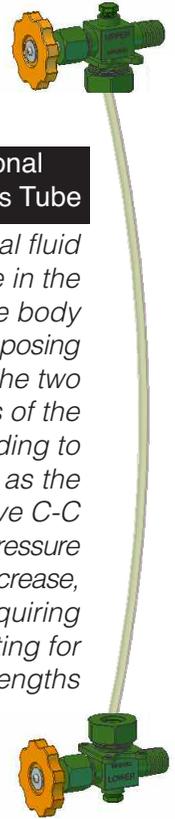


# Model TE...How it Works....



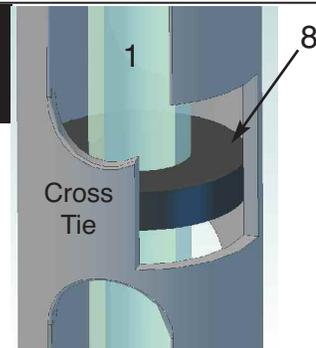
## Conventional Bare Glass Tube

Internal fluid pressure in the valve body creates opposing loads on the two ends of the glass leading to **buckling** as the valve C-C and/or pressure increase, requiring de-rating for longer lengths



## Model TE rated same pressure for all lengths, up to 144" OAL... NO DE-RATING for Length

Buckling prevented by **STABILIZER**® which restrains lateral movement of glass tube. Cross tie and stabilizer are positioned every 15" or less



5/8" Ø End Fitting, shorter end goes at bottom as shown, and rests on shoulder in lower gage valve; upper gage valve bored w deep recess to accept longer end fitting during installation

Item	Description	Material- wetted per NACE	Size	Wetted
1	Sight Tube	Borosilicate Glass, Clear	5/8" Ø x 3/32"	✓
2	Upper End Fitting	T316 SS	5/8" Ø x 1-7/8"	✓
3	Lower End Fitting	T316 SS	5/8" Ø x 1-1/8"	✓
4	Insert	T316 SS		✓
5	Armor	T304 SS	1-1/2" Ø	
6	Jam Nut	T304 SS	1-1/2" Hex	
7	Glass Seal	Viton (400°F max.)	2-208	✓
8	Stabilizer	Viton		

