



## Internal Tank Equipment

**American Ultraviolet STG and TTG Series Internal Tank Equipment Fixtures** are designed to protect liquids while inside storage tanks.

### Applications

STG and TTG Series fixtures from American Ultraviolet are designed to control yeast, mold and bacteria in many applications, including:

- De-ionized water storage
- De-mineralized water storage
- Maintenance of sterility in
  - Pharmaceutical Holding Tanks
  - Stills
- Photochemical
  - Polymerization
  - Bleach
  - Oxidation
- Pilot plant research
- Chemical drum disinfection
- Container sterilization
  - Milk cartons
  - Food product cartons
  - Cans
  - Tubes

### STG Series



**The STG Series** is designed to mount inside storage tanks to control yeast, mold and bacterial growth. Each fixture is equipped with an externally mounted "Tube Guard" to indicate whether lamps are operating properly. The STG Series is available in a 17" and 37" fixtures with the option of one or two lamps.

### TTG Series



**The TTG Series** is an immersion unit designed to sterilize tank headspace as well as the liquid in the tank. The lamp is housed in a quartz sleeve for protection, as the lamp is partially submerged, suspended in the tank by a double-grooved gasket. The stainless steel electrical enclosure (which also holds the lamp in place) fits on top of the tank and features a "Tube Guard" to indicate that the lamp is operating properly. These fixtures are offered in 18", 28", 36", and 64" insertion depths to fit a variety of tank sizes. When used with an American Ultraviolet in-line liquid disinfection unit, liquid product will leave the tank 99% bacteria-free.

### Benefits

#### TTG:

- High intensity UV lamp
- Peak radiation: 253.7 nanometers
- Long lamp life = 12,000 hours
- High-transmissivity UV Quartz sleeve
- Serviceable without product contamination
- "Tube-Guard" lamp operation indicator
- Stainless steel housing
- Four insertion depths: 18, 24, 36 and 64"

#### STG:

- High amperage transformers
- One "Tube-Guard" unit per fixture
- Stainless steel housing
- Spectrally-polished reflector cover directs radiation toward product zone
- Two lengths: 17 and 37"

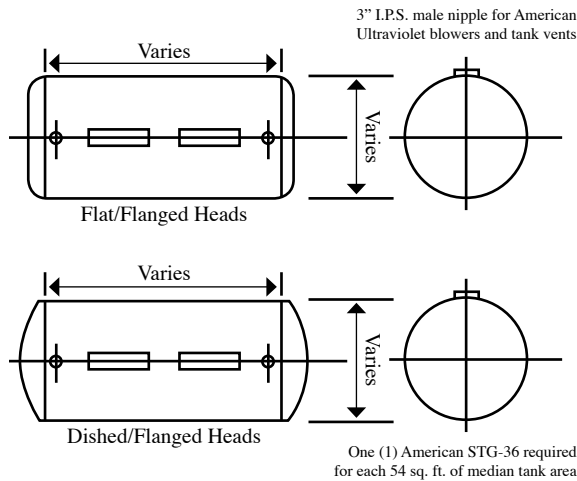


# Internal Tank Equipment

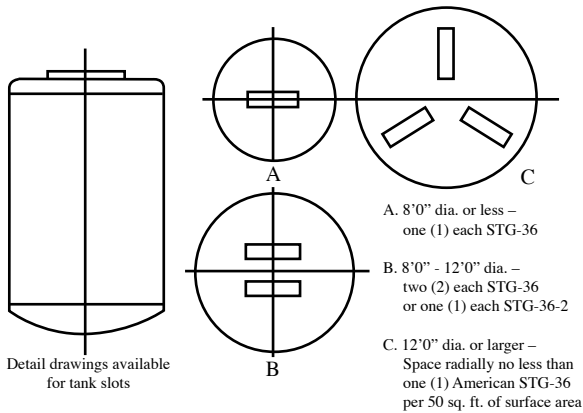
## STG TECHNICAL DATA

SINGLE LAMP FIXTURE					
Style	Lamp Required	Tube Guards	U.V. Watts	Amps	Dimensions L W H
STG-36	G36T6	(1) Type SL/HV	13.8	.6	37"
STG-10-SL	G10T5.5	(1) Type SL/HV	5.3	.6	17"
DOUBLE LAMP FIXTURE					
STG-36-2	G36T6	(2) Type SL/HV	27.6	1.2	37"

### HORIZONTAL TANK INSALLATION STG-36



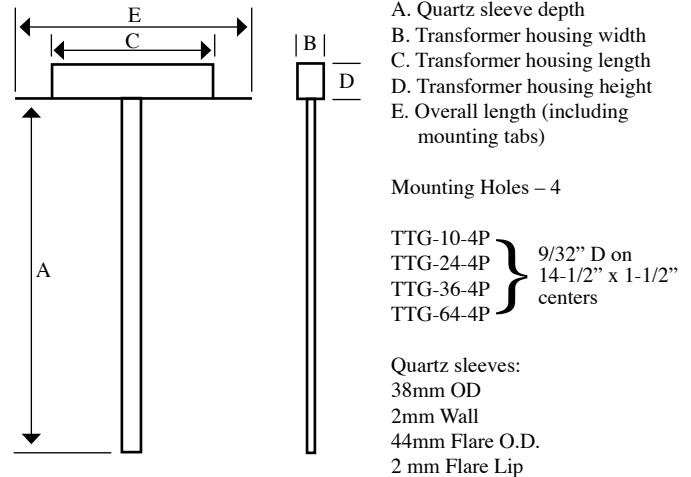
### VERTICAL TANK INSALLATION STG-36-2



## TTG TECHNICAL DATA

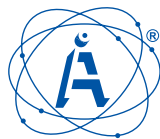
SINGLE LAMP FIXTURE									
Model	Lamp Watts	U.V. Watts	Total Amps	A	B	C	D	E	
TTG-10-4P	16	5.3	0.60	18"	3"	13.75"	4.5"	15.25"	
TTG-24-4P	24	5.5	1.0	28"	3"	13.75"	4.5"	15.25"	
TTG-36-4P	39	13.8	0.60	36"	3"	13.75"	4.5"	15.25"	
TTG-64-4P	65	26.7	0.50	64"	3"	13.75"	4.5"	15.25"	

118 volts, 277 Volts/60HZ  
 On/off switch  
 Gasketed (1/2" x 1/2" urethane foam)  
 8 foot; 3-wire grounded service cord



Because of their warm, moist environment and accompanying condensation, liquid sugar, syrup and water storage tanks are ideal breeding grounds for bacteria, mold and yeast. American Ultraviolet has specifically designed the LTC, BT and SC-4 Series of Ultraviolet Germicidal Fixtures to disinfect air in the headspace of storage tanks, therefore overcoming problems on several levels. All three series of fixtures use a combination of filters, blowers and UVC lamps to maximize protection, eliminate condensation and remove 99.97% of harmful airborne microorganisms. Specifically, positive pressure, provided by the blower, works to eliminate condensation; while the UVC lamps and filters ensure that incoming air is free of airborne microorganisms that cause mold and bacterial growth. These standard fixtures are designed to be remote, or mounted on the outside of storage tanks. Learn more by visiting [www.auvhvac.com](http://www.auvhvac.com) or ask your representative for a Liquid Storage brochure.

Represented by:



**American Ultraviolet®**

Since 1960. It's all we do.

[www.auvhvac.com](http://www.auvhvac.com)

212 South Mt. Zion Road • Lebanon, IN 46052

(765) 483-9514 • (800) 288-9288

Fax: (765) 483-9525

Factors are presented for American Ultraviolet fixtures only and American Ultraviolet reserves the right to alter dimensions for design and efficiency improvement without prior notice.

Prolonged, direct exposure to UVC light can cause temporary skin redness and eye irritation, but does not cause skin cancer or cataracts. American Ultraviolet systems are designed with safety in mind and, when properly installed by a professional contractor, do not allow exposure to UV irradiation and allow for safe operation and maintenance.

ITE 02/09/5M