

## STI-P3 Cathodically Protected Underground Storage Tanks

Modern Welding underground tanks have the unique Sti-P3 triple protection system developed by the Steel Tank Institute.

Modern Welding's Sti-P3 tanks are available for any size job, ranging from 500 to 50,000 gallon capacity. The system is pre-engineered and your tank is completely fitted at our plant, so it will need no special handling during loading, shipment or off-loading at your site. The protection system is self-activating and entirely automatic. Since the introduction of the protection system in 1969, this system as provided long term protection for underground storage tank structures.

Modern Sti-P3 tanks meet EPA requirements, and are made in accordance with Underwriter's Listed specifications (Laboratories Std. #58 and UL #1746). They also meet or exceed codes for the storage of hazardous materials (NFPA #30 and #31), the Uniform Fire Code and American National Standards Inst. B137.1-1971. Further information on Modern Welding Sti-P3 tanks is available upon request.

### **STEP 1: PROTECTIVE COATING**

The first step in the Sti-P3 system is applying a tough, long-lasting coating to seal the tank's steel against attack from aggressive soil conditions and moisture. First we sandblast the tank to remove dirt, oil and mill scale. And we apply the tough dielectric coating by airless spray, carefully controlled to maintain high standards of thickness and coverage.

### **STEP 2: CATHODIC PROTECTION**

Then we attach high-potential magnesium or zinc anodes to the tank, reversing any DC current flow which might result from stray ground current or reaction between different metals. We pre-engineer the size and placement of the anodes on each tank, according to the tank's surface area. The anodes are pre-packed in a special fill material to increase their efficiency.

### **STEP 3: ELECTRICAL ISOLATION**

Stray currents could attack the tank through its piping connections. So we install special insulating bushings in all openings, to electrically isolate the tank. The bushings are custom-made specifically for the Sti-P3 system, with a low profile to prevent damage during shipment and installation. The tough, sturdy dielectric bushing material resists gasohol, gasoline, and gasoline vapors and is impervious to water, salt, and detergents.

Three steps, designed to work together to provide enduring protection. Years in the development, Sti-P3 gives your tank total protection.

Available in Single Wall or Double Wall.