

SPL-INT™ ANODE

Impressed Current System for Internal Pipeline Surfaces

MATCOR's patented SPL™-INT Anode System for internal pipeline cathodic protection (CP) is the only impressed current, linear anode system for cathodic protection of internal pipeline surfaces. Used for water and salt water pipelines, the system features entrance fittings spaced as far as two hundred feet apart. Other methods for cathodic protection of large diameter pipeline internal surfaces require closely spaced probe anodes.

PRODUCT DETAILS

The SPL-INT Anode System utilizes a series of MATCOR's field-proven SPL-HD internal impressed current anodes. Made to specific lengths with unique fittings, the anodes run between two entrance fittings inside of the pipe. A series of anodes, each up to 200 feet in length, work together to prevent corrosion on the adjacent internal surface of the pipeline. The pressure entrance fittings are welded to the pipeline. The SPL-INT Anode system requires monitoring reference electrodes and a cathodic protection rectifier. Anode replacement is possible while keeping the permanent entrance fittings.



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COMPONENTS

The SPL-INT Anode is a complete system that consists of one or more linear anode assemblies and fittings depending on the pipe configuration and final design. Each anode assembly includes:

- **SPL-INT Anode:** the linear anode is designed specifically for this system with a made to length assembly and entrance fittings on each end.
- As shown in the Drawing 1113-16-01, the fitting consists of a carbon steel or stainless steel pipe section ready to weld to the main pipeline, PVC flange set, entrance fittings and stainless steel nuts, bolts and washers. The entrance fitting is waterproof and designed for 150 lb. pressure.

In addition to the entrance fittings and linear anode assemblies, the following components are needed to complete the system:

- **Rectifier:** MATCOR will help to size and provide the appropriate rectifier.
- **Reference Electrodes:** A MATCOR probe type, silver-silver chloride reference electrode is recommended for the SPL-INT Anode system. The number of electrodes will depend on the system configuration and application.
- Cabling and possible junction boxes.



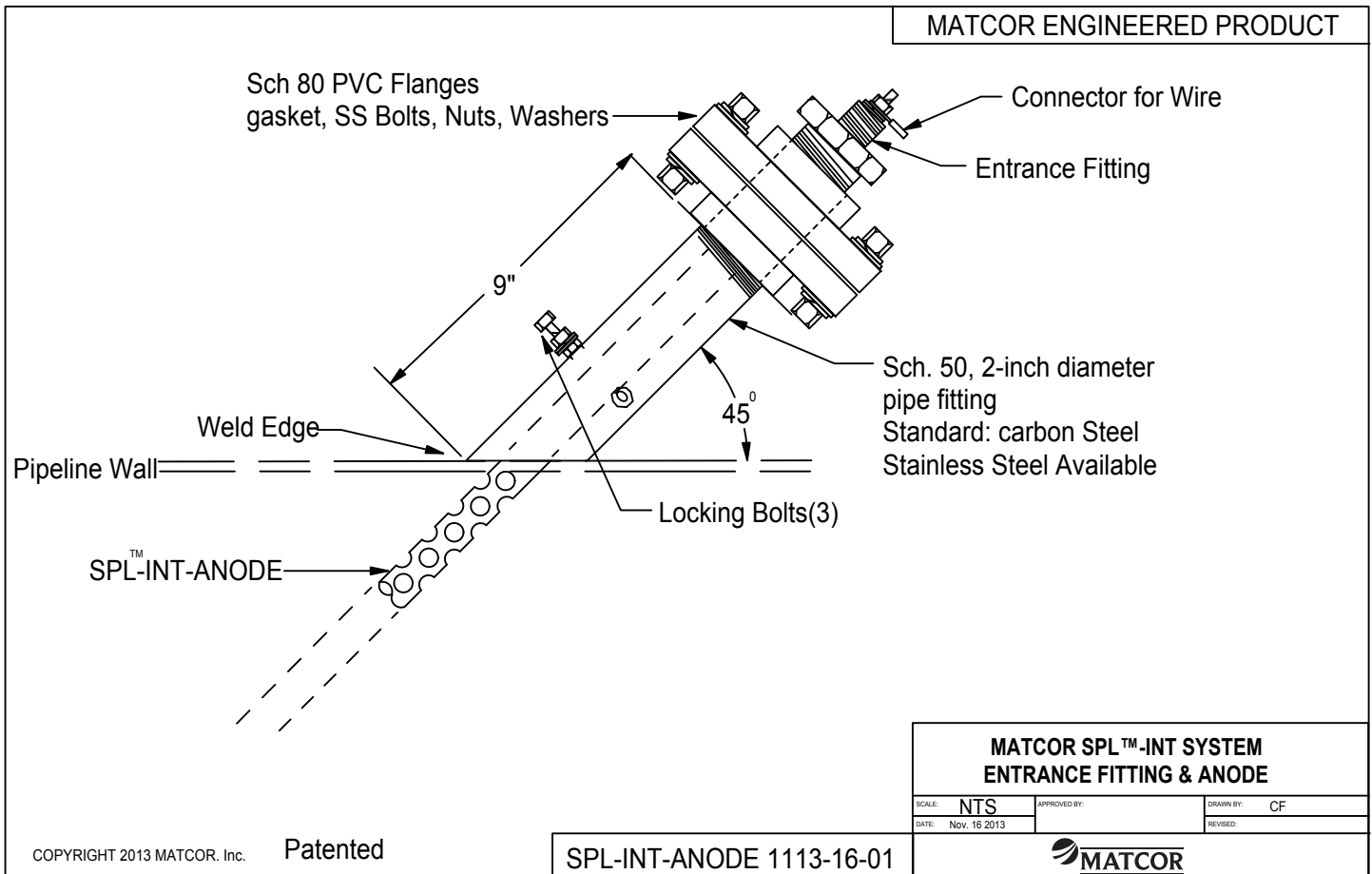
MATCOR's SPL™-INT Anode and entrance fitting.

BENEFITS

- Protects internal pipeline surfaces with the least number of entrance fittings
- Provides uniform current distribution compared to probe anodes
- Anodes can be replaced
- Protects long lengths of piping
- Uses MATCOR proven SPL-Anode technology

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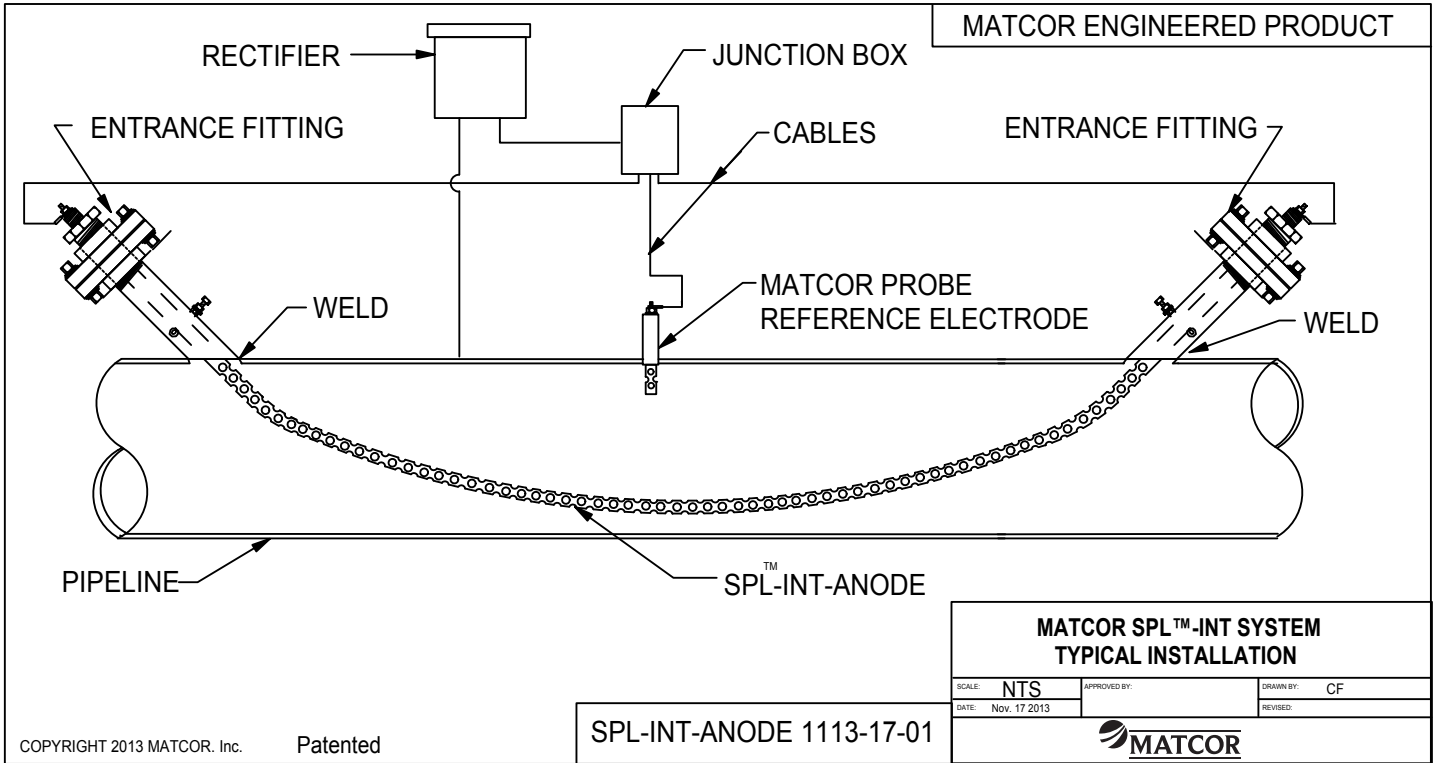


DESIGN INSTRUCTIONS

MATCOR engineers will configure and design your SPL-INT Anode cathodic protection system design, from data collection to complete design drawings and specifications. MATCOR engineers will require pipe diameters, flow rates, description of the material flowing in the pipeline and the configuration of the piping. Anodes can be up to 200 ft. in length and the system is generally used on larger diameter piping.

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SPL-INT-ANODE 1113-17-01

INSTALLATION

Contact MATCOR for complete installation services or installation instructions. Installation varies with each application of the engineered SPL-INT Anode system. The general steps include:

1. Cut holes for the steel piping for the entrance fittings.

2. Weld the steel fitting to the pipeline.
3. Pull the anode assembly through the pipeline with cable puller provided by MATCOR.
4. Finish installation of the entrance fittings to create a waterproof seal.
5. Install the probe reference electrode(s).
6. Install the rectifier and junction box with the cabling as required.

BRAND ENERGY & INFRASTRUCTURE SERVICES
 MATCOR is a Brand Energy & Infrastructure Services Company.

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