

PSI Model "C" Cross-Linked Epoxy Coated Casing Spacer/Isolator Specification

Factory made casing spacers/isolators of the following description shall be installed on any carrier pipe passing through a pipe casing. They are designed to protect the carrier pipe corrosion coating and electrically isolate the carrier pipe from the casing.

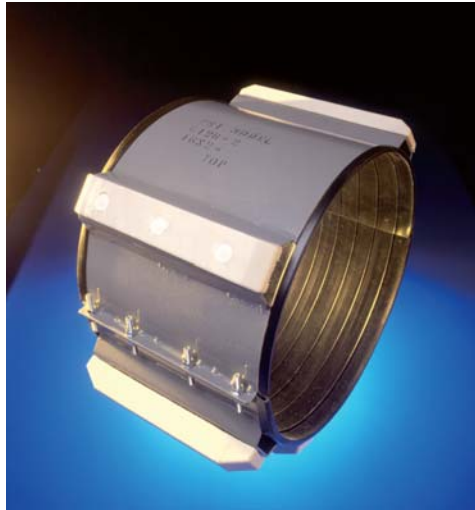
Casing spacers/isolators shall be PSI Model C8GN-2 for carrier pipes up to 24-inch diameters and Model C12GN-2 for larger pipe sizes as manufactured by Pipeline Seal and Insulator, Inc., Houston, TX.

Casing spacers/isolators shall have a minimum 14 gauge steel band and where required, 10 gauge risers. The band, risers and connecting studs shall be welded and grit blasted at the factory before the application of a fluidized bed thermo set cross-linked Epoxy coating of between 10-16 mils thickness.

The cross-linked Epoxy coating shall provide good resistance to acids and alkalis and excellent resistance under ASTM B117 salt spray tests.

The spacers/isolators shall have a flexible PVC inner liner of 0.09 inch thickness with a durometer "A" 85-90 hardness and a minimum 58,000 volt dielectric strength. The runners shall be high pressure molded glass reinforced polymer with a minimum compressive strength of 18,000 psi per ASTM D638. The runners shall be 2.0 inch in width and a minimum of 7.0 inches long for C8GN-2 models and 11" for C12GN-2 models (polyethylene runners are not an acceptable alternative). The runners shall be attached to the band or riser by 3/8" welded steel studs and lock nuts which shall be recessed far below the wearing surface on the runner. The recess shall be filled with a corrosion inhibiting filler. The band section shall be bolted together with cadmium plated studs, nuts and washers.

The casing spacers shall be PSI Model C Metallic Casing Spacers as manufactured by Pipeline Seal and Insulator, Inc., Houston, Texas or engineered approved equal. Alternate considerations shall be submitted to Engineer 10 days prior to bid opening.



Considerations

The above specification is considered sufficient for most pipe sizes and types up to 36-inches and casing lengths up to 1,000 feet. For larger size pipes or longer or unusual casings, please contact Pipeline Seal and Insulator, Inc. Heavy Gauge Steel Bands and Steel Risers may be required.

End Seal Specification

After insertion of the carrier pipe in the casing, the ends of the casing shall be closed by installing a PSI Model "C", Model "S", Model "W" or Model "R" casing end seal as manufactured by Pipeline Seal and Insulator, Inc., Houston, TX. Energy Market Note: For Tank Farm Applications and Fire Resistant applications, specify Model "FW" casing end seal as manufactured by Pipeline Seal and Insulator, Inc., Houston, TX.

Link-Seal® End Seal Specification (Carrier Pipe Must Be Centered Within Casing)

After insertion of the carrier pipe in the casing, the ends of the casing shall be closed by installing the Link-Seal® end seals and 1/8" thick synthetic rubber end seals equal to the PSI Model "C" or Model "W" end seal. Both as manufactured by Pipeline Seal and Insulator, Inc., Houston, TX.

Quality Assurance

Each spacer/isolator shall be manufactured at a facility that has a Registered ISO 9001:2008 Quality Management System. Copy of current ISO 9001:2008 registration shall be provided with material submittal.



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