

Model "S" Stainless Steel Stainless Steel 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 or tunnel. They are designed to support and protect the carrier pipe, and electrically isolate the carrier pipe from the casing.

Stainless Steel Casing Spacers/Isolators with risers shall be Model S8G-2 for pipes up to 24 inch diameters and Model S12G-2 for larger pipe sizes as manufactured by Pipeline Seal & Insulator, Inc., Houston, TX., or Engineer approved equal, provided and installed where shown on drawings and in accordance with these specifications.

Alternate considerations shall be submitted to Engineer 14 days prior to bid opening for consideration of other manufacturers of casing spacers. The spacer insulator "system" shall be designed and fabricated for the specific project and application for which they are furnished.

The casing spacer/isolator system manufacturer must have a current ISO 9001:2000 Registered Quality Assurance Program.

Band - shall have a minimum 14 gauge 304 stainless steel band. Bands shall be two segment, 8-inch wide for Model S8G-2 and 12-inch wide for Model S12G-2. For carrier pipes 42-inch diameter and larger, bands shall be three or more segments.

Steel Risers - high grade 304 stainless steel, minimum 10 gauge thickness shall be fabricated to support the carrier pipe and its liquid load. Risers shall be sized to position the carrier pipe in the casing, support all loads and provide proper contact for the isolation function.

Liner - The casing spacers/isolators shall have a flexible PVC liner of 0.09 inch thickness with a Durometer "A" 85-90 hardness and a min. 58,000 volt dielectric strength.

Runners - The runners shall be of high pressure molded Glass Reinforced Polymer with a minimum compressive strength of 18,000 psi, 2-inch in width and a minimum of 8 inches long (11-inch for S12G-2). Polyethylene runners are not an acceptable alternative. The runners shall be attached to the band or riser

by 3/8 inch welded stainless 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.

Hardware - The band section shall be bolted together with 304 stainless steel studs, nuts and washers. Hardware shall be 5/16-inch for pipes up to 42-inch diameter and 3/8-inch for carrier pipes 42-inch and larger.

Quality Assurance

Each spacer/isolator shall be manufactured at a facility that has a Registered ISO 9001:2000 Quality Management System. Copy of current ISO 9001:2000 Registration shall be provided with material submittal.

Considerations

The above specification is considered sufficient for most pipe sizes and types up to 36-inches and casing lengths up to 300 feet. For larger size pipes or longer or unusual

casings, please contact Pipeline Seal and Insulator, Inc.

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" or Model "FW" casing end seal as manufactured by Pipeline Seal and Insulator, Inc., Houston, TX.

Link-Seal® End Seal Specification

(Carrier Pipe Must 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 a 1/8" thick synthetic rubber end seal equal to the PSI Model "C" end seal. Both as manufactured by Pipeline Seal and Insulator, Inc., Houston, TX.



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