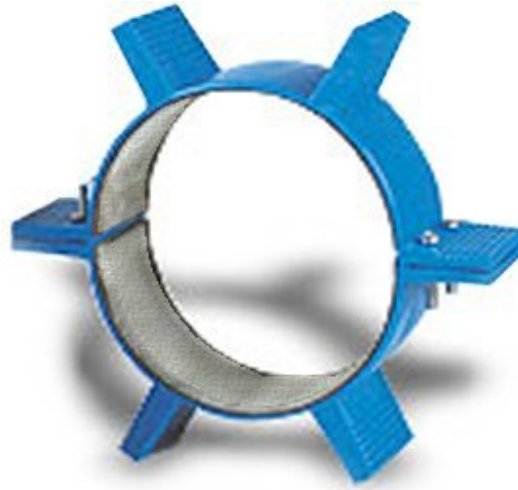


Maloney Model 90

Model 90 Casing Insulators are manufactured from virgin high density polyethylene (HDPE Type II).

Insulators are molded in two sections, designed for simplified field installation, and use threaded inserts requiring only a screwdriver for assembly. A rubberized liner is factory-installed to prevent slippage between the insulator and the pipe. All hardware is stainless steel to resist corrosion. The Insulators exhibit low friction and the high abrasion resistance allowing carrier pipes to be more easily pulled through the casing.



The Model 90 is specifically designed to raise the belled portion of cast iron and PVC pipe above the inside surface of the casing pipe. (See Table)

In the event of a nonstandard configuration, molded "cutting guides" on the sides of each fin permit easy manual trimming of fins to a uniform height.

Insulator Spacing:

The Model 90 Casing Insulator is designed to carry the filled weight of the pipeline without deformation of the support fins. For proper operation it is recommended that insulators be installed 1 foot from each casing end, 1 foot from each side of a pipe joint, and with 4 to 6 feet spacing on the pipe barrel. Actual spacing may vary depending on local regulations and design specifications.

Model 90 Dimensions & Specifications:

| Carrier size (inches) | Min. Casing size (inches) | Diameter Over Runners | No. of Runners | No. of Segments | Width (inches) |
|-----------------------|---------------------------|-----------------------|----------------|-----------------|----------------|
| 4" | 10" | 9-1/8" | 6 | 2 | 4" |
| 6" | 12" | 10-15/16" | 6 | 2 | 4" |
| 8" | 16" | 14-7/16" | 6 | 2 | 4" |
| 10" | 18" | 16-1/4" | 6 | 2 | 4" |
| 12" | 20" | 18-1/8" | 6 | 2 | 4" |

Model 90 Physical Properties:

| Physical Properties | | |
|---------------------------------|----------------------|--|
| Dielectric strength | ASTM D-149 | step-by-step method 450 - 500 volts/mil |
| Compressive strength | ASTM D-695 | 3200 psi |
| Flexural yield strength | ASTM D-790 | 1000 psi |
| Tensile strength | ASTM D-638, D-651 | 3100 - 5500 psi |
| Impact strength | ASTM D-256 | 4.0 ft. lbs. / in. of notch |
| Water absorption | ASTM D-570 | <0.01% |
| Max. continuous operating temp. | | 225°F |