

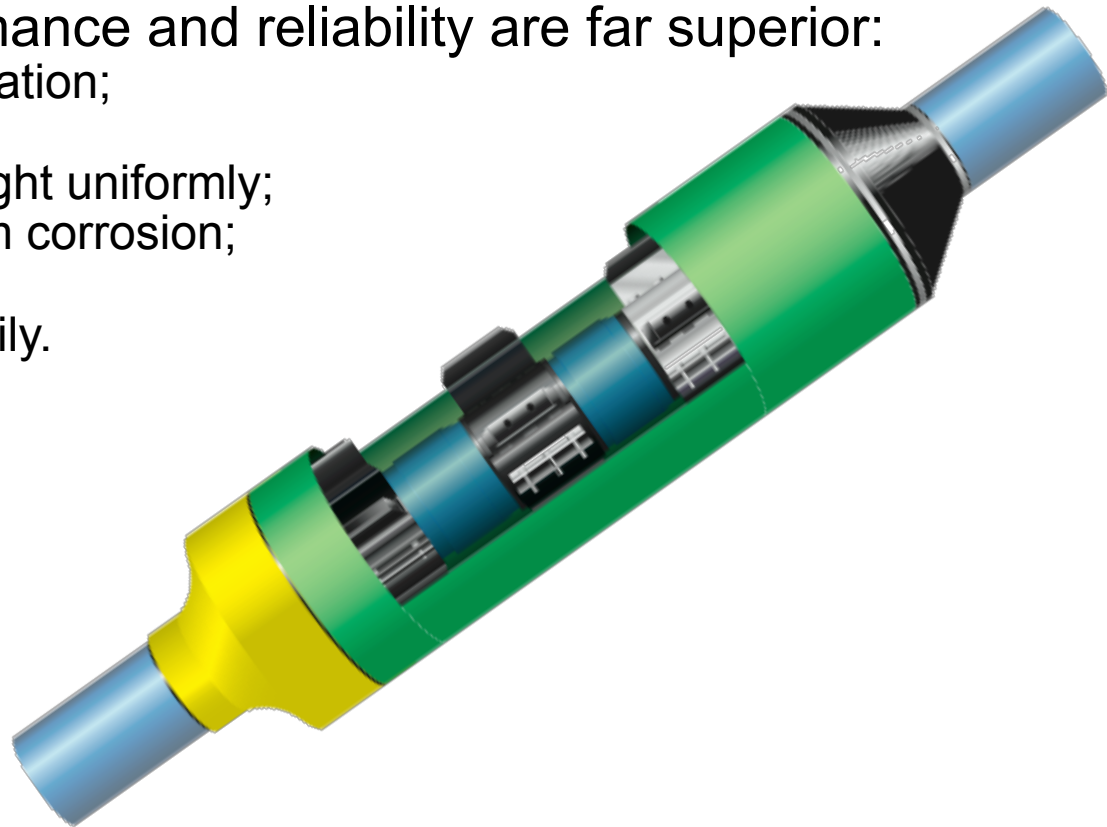


CCI PIPELINE SYSTEMS

Casing Spacers & End Seals

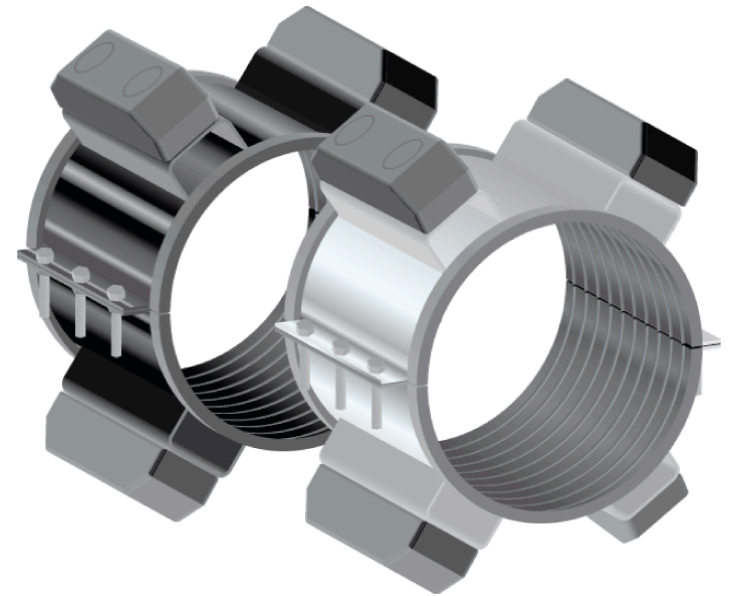
Advantages vs. Banded Wood Skids

- Casing Spacers will save you time and labor - quickly installed by a single worker and easily field adjustable.
- Casing Spacers' performance and reliability are far superior:
 - Providing electrical insulation;
 - Will not rot or settle;
 - Support carrier pipe weight uniformly;
 - Protect against long term corrosion;
 - Require no casing filler;
 - And slide into place easily.



Carbon Steel & Stainless Steel Casing Spacers

- Heavy duty two-piece #304 Stainless Steel or Carbon Steel Casing Spacers with durable glass filled polymer runners.
- Available in 8 inch and 12 inch widths. (8" width through 24" pipe recommended).
- Fast and easy installation on concrete, PVC, ductile iron, polyethylene and steel cased crossing applications.



Carbon Steel and Stainless Steel Casing Spacers

- Lined with ribbed EPDM to prevent electrical contact between the carrier pipe and the spacer.
- Carbon Steel Casing Spacers are fabricated from pickled & oiled steel and then coated with a fusion bonded copolymer based thermoplastic for superior abrasion resistance and corrosion protection.
- Casing Spacers for bell & spigot joints or large diameter applications are designed and fabricated to insure an extra margin of support.
- CCI Pipeline Systems has the experience to design and manufacture virtually any configuration of casing spacer, including multi-carrier cluster within a single casing.

CCI Pipeline Systems

Specifications & Certificates of Compliance:
CCI Polyethylene Casing Spacer
Model CSP

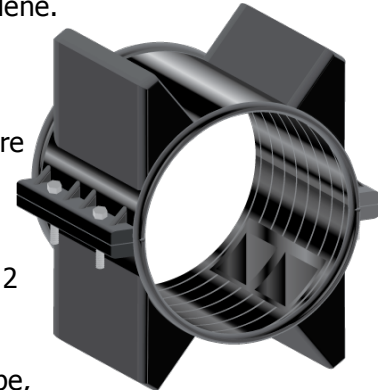
The CCI Model CSP Polyethylene Casing Spacer is injection molded from high density polyethylene. These spacers provide an economical solution to metallic casing spacers.

The CCI Model CSP Polyethylene Casing Spacers exhibit low friction, high abrasion resistance allows the carrier pipe to slide easily and free of damage into the casing pipe. The low moisture absorption and high insulating value of polyethylene electrically insulates the carrier pipe and protects it from electrical current induced corrosion.

The pipe sizes range from 2 in. to 48 in. in diameter. The 2 in. through 12 in. is comprised of 2 halves, while 14 in. and above are comprised of multiple segments.

For applications where the casing pipe is more than 2 to 3 pipe sizes larger than the carrier pipe, runner extensions can be added to the polyethylene spacers using HDPE by means of a vulcanizing process.

Recommended positioning of the spacers is one placed 1-2 feet on either side of the bell joint and one every 6-8 feet apart thereafter for a total of three casing spacers per joint. CCI engineering reserves the right to recommend spacing according to application.

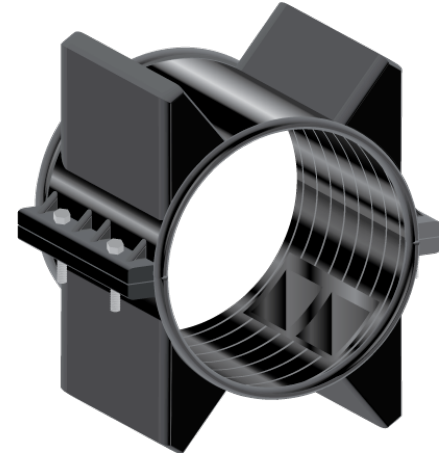


PHYSICAL PROPERTIES

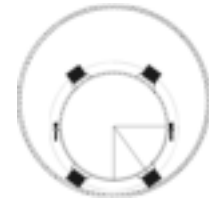
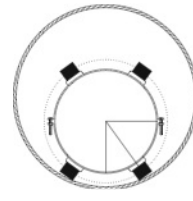
- Dielectric Strength – 450-500 Volts/Mils
- Compressive Strength – 3,200 PSI
- Tensile Strength – 3,100 – 5,100 PSI
- Water Absorption - <0.01%
- Maximum Continuous Operating Temperature - 225° F

Polyethylene Casing Spacer

- Injection molded from high density polyethylene.
- Provide an economical alternative to metallic casing spacers.
- Excellent dielectric strength and low moisture absorption provide minimal electric current loss with no impairment of cathodic protection.
- High impact resistance and excellent frictional characteristics make polyethylene spacers a pipeline industry standard on mechanical joints, restrained joints, push-on joints and welded pipe joints.



Ordering Information



To place an order, please have the following information available:

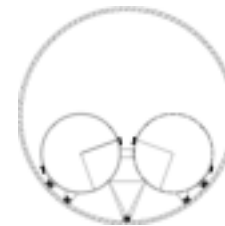
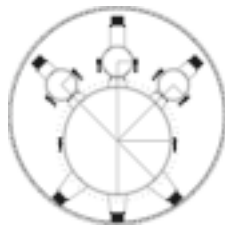
- Casing spacer material

(Carbon Steel, Stainless Steel, or Polyethylene)

- Configuration:(See drawings)
- Type of carrier pipe
 - Diameter of carrier pipe
 - Inside diameter of casing pipe (or casing wall thickness)

- Outside diameter of bell (if applicable)
- Width of spacer, model number, etc.
- Additional information (for multi-pipe, cluster designs)
- Quantity of spacers
- Model and quantity of end seals

- *Recommended spacing for steel carrier pipe is 6 ft. to 8 ft. (Typically, length of casing, divided by 6 +2 = # of spacers).*
- *Recommended spacing for PVC type pipe (Bell & Spigot) = 3 spacers per joint. CCI reserves the right to recommend spacing according to application.*



CCI End Seals

Model ESW

Wrap-around neoprene rubber end seal

Designed for field installations where the carrier pipe has been installed in a casing. Involves simply wrapping the seal around the carrier pipe and casing; then compressing the adhesive strips together for a seal. Installation is completed when the stainless steel banding is installed and tightened.



Model ESC

Seamless neoprene end seal

Easily installed as the carrier pipe is pulled through the casing. The installation process is completed with the installation of stainless steel banding straps to the carrier and the casing pipe. This end seal has excellent chemical resistance and retains good flexibility.



Model CSK

High expansion heat-shrinkable kit with support skirting

Manufactured with a unique "Snap-fit" closure system and a temperature indicating pigment that changes color upon reaching proper temperature. Installation is simple and guess-work is eliminated for the installer.

