



# Silvertip™

casing spacers by InfraChoice

Casing spacer data and  
specification sheet  
Rev. May 30 2013

## Silvertip™ ESP (Pull-On) and ESW (Wrap-Around) End Seals

### ABOUT SILVERTIP™ CASING SPACERS and END SEALS

Silvertip™ casing spacers are designed to provide effective mechanical and dielectric protection to essential infrastructure piping installed in casings beneath roadways, bridges and other critical structures.

Carrier pipes passing through casings are susceptible to damage if there is physical contact with the casing pipe. Contact between metal carrier pipes and casings can also result in accelerated corrosion and a shortened pipeline service life.

Silvertip™ casing spacers offer engineers a reliable method to ensure that piping inside of casings will be consistent with the rest of the system design. Contractors appreciate the durability and predictable installation process. Owners appreciate the lower life cycle costs related to well designed and constructed details that are expensive to revisit.

Use Silvertip™ pull-on (ESP) new construction or wrap-around (ESW) end seals on existing installations to protect the ends of the casing pipe from coating damage and the conductive effects of soil after the pipe is backfilled. ESP and ESW end seals are made with 1/8" thick synthetic rubber so the seal will not be compromised by soil stress or pipe movement. The end seals are held in place by field-installed stainless steel gear clamps.

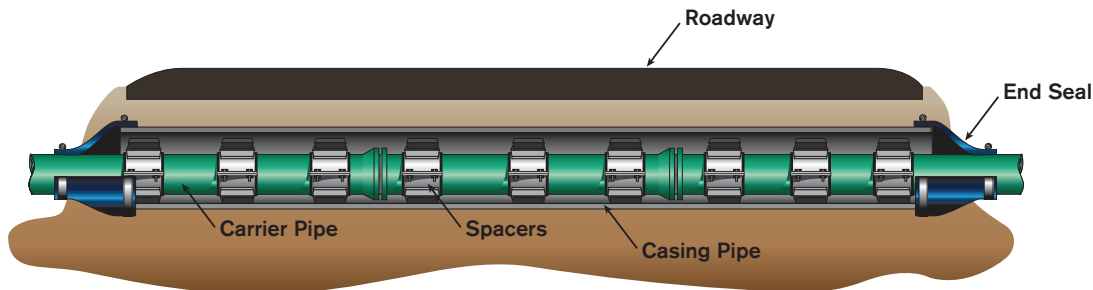


Fig 1. Diagram of typical casing spacer installation with end-seals installed.



Silvertip™ Casing Spacers by InfraChoice  
<http://drivingstrategicsales.com/infrastructure>  
800-461-0006



## **PULL-ON (ESP) and WRAP-AROUND (ESW) END SEAL SPECIFICATIONS**

### **Physical Specifications**

Seal – Seamless neoprene rubber, 1/8” thick, smooth black finish, vulcanized edges

Durometer – 60 +/-5

Temperature Limits – -28.9°C to 100°C (-20°F to 212°F)

Average Tensile – 6.89 MPa (1000 psi)

Average Elongation – 350%

Specific Gravity – 1.50

Polymer Content – 20%

Bands – 1/2” wide T304 stainless steel bands with non-magnetic worm gear clamp mechanism

Adhesive seal (ESW only) – butyl mastic strips to seal edges

## **SELECTING an END SEAL**

### **1. Select your end seal model.**

- a. Use ESP pull-on end seals if installing seals at the time of construction.
- b. Use ESW wrap-around end seals if you’re installing end seals after the carrier line has been completely installed.

### **2. Identify your pipe dimensions and configuration.**

- a. Carrier pipe OD (including coating)
- b. Casing pipe OD
- c. Centered (C) or Standard non-centered (S) configuration

### **END SEAL PART NUMBERS:**

Model (ESP or ESW)-(carrier pipe OD)-(casing pipe OD)-(position C or S)

Example 1: a pull-on end seal for a 12.5” carrier pipe with centered positioning in a 24” casing

- Silvertip ESP-12.5-24-C

Example 2: a wrap-around end seal for a 10.5” carrier pipe with standard positioning in a 20” casing

- Silvertip ESW-10.5-20-S



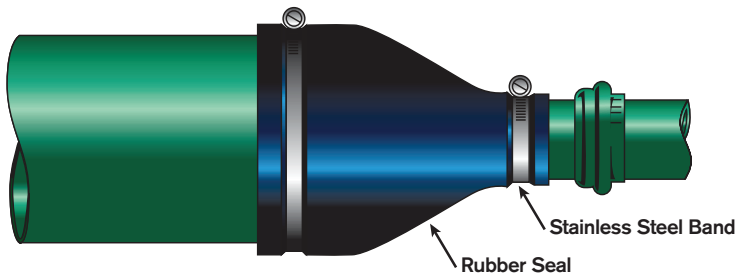


## ABOUT SILVERTIP™ END SEALS

Use Silvertip™ end seals to protect the ends of the casing pipe from coating damage and the conductive effects of soil after the pipe is backfilled. Use ESP seamless pull-on end seals for new construction and ESW wrap-around end seals for existing installations.

- ESP and ESW end seals are made with 1/8" thick synthetic rubber so the seal is not compromised from soil stress, pipe movement or chemical corrosion.
- End seals accommodating any combination of pipe sizes are available.
- Available in concentric (for centered carrier pipes) and eccentric (for non-centered pipes).
- ESW wrap-around end seals are designed to facilitate installation when the carrier line has already been installed and the pull is complete. Just wrap around the carrier and casing, remove the release liner from the two pressure-sensitive butyl mastic strips and press the adhesive strips down to form a permanent seal.
- End seals are secured with T-304 stainless steel banding straps with a 100% non-magnetic worm gear mechanism to insure the integrity of the clamp.
- A screwdriver to tighten the band clamp is the only tool needed for installation.

### Pull-On End Seal (model ESP)



### Wrap-Around End Seal (model ESW)

