



Casing Spacers & Insulators



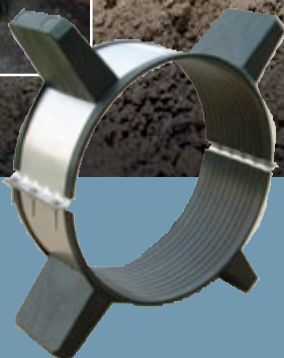
AdvAnce
Products & systems, Inc.

ISO 9001 Certified Company - fm537405

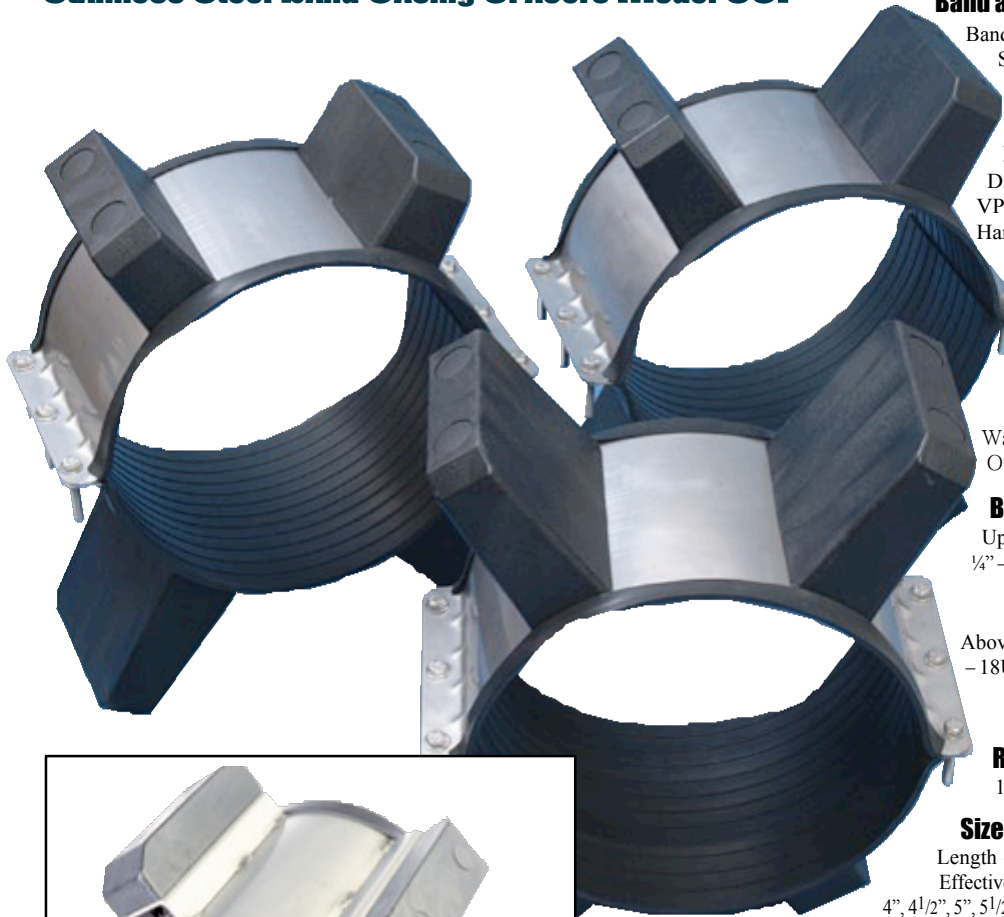


**Casing Spacers with
rollers** - see page 7

**Casing Spacers with
field changeable
risers/runners**
-see page 5



Stainless Steel Band Casing SPACERS Model SSI



Band and Risers

Band - 14 Gauge, T-304 Stainless
Steel Width: 8" & 12"
Riser - 10 Gauge T-304 Stainless Steel

Liner

PVC
Dielectric Strength - 60,000
VPM Thickness - .090" +/- .010"
Hardness - 80 Duro +/- 5
EPDM
3,000 VPM
Thickness - .090" (2.29mm)
min. Hardness - Durometer "A"
85-90
Dielectric Strength - {1/8" (3.18 mm) thick}
50,000 VPM
Water Absorption - 1% max.
Overlaps Edges

Bolts, Nuts and Washers

Up to nominal OD of 16" - T-304 Stainless Steel -
1/4" - 20UNC x 2" long bolts
1/4" hex nuts
1/4" washers SAE 2330
Above nominal OD of 16" - T-304 Stainless Steel - 5/16"
- 18UNC x 2" long bolts
5/16" hex nuts
5/16" washers SAE 2330

Runners/risers

1" or 2" wide glass filled polymer plastic

Sizes of Runners/risers available:

Length - 7" & 11" (17.8, 27.9 cm)
Effective Heights for 7" Length - 1", 1 1/2", 2", 2 1/2", 3", 3 1/2",
4", 4 1/2", 5", 5 1/2" and 6"
Effective Heights for 11" Length - 1", 1 1/2"

Runner Material Specifications:

Rockwell Hardness (M) - (ASTM D785) - 101
Tensile Strength - (STM D638) - 27,000 psi
Flexural Strength - (ASTM D790) - 40,000 psi
Deflection Temp. @ 264 psi - (ASTM D648) - 478 °F (248 °C)
Deformation Under Load @ 72 °F (22 °C) - 3500 lb.
Load, - (ASTM D648) - 1%

Welding

All risers are welded to the band by MIG welding.
Stainless steel welds are fully passiv

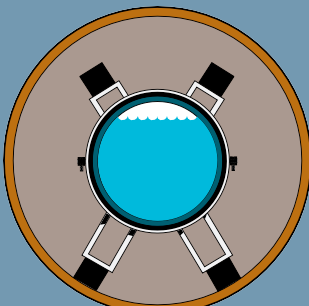


Stainless Steel Band SPACERS & Insulators (Model SSI)

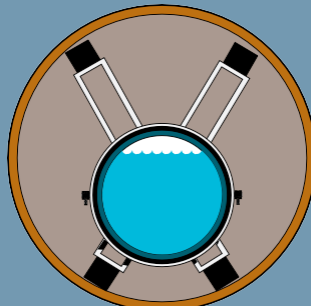
Heavy duty two-piece stainless steel bands serve practically every piping application and should be utilized inside casing that is 2 or 3 sizes larger than the carrier pipe. APS stainless steel band casing spacers are available in two models: the SSI8 model, which is 8" in width and recommended for carrier pipe 4" to 24"; and the

model, which is 12" in width and is recommended for pipe 26" to 120" and larger. Stainless steel band spacers are recommended for every 6 to 8 feet of pipeline.

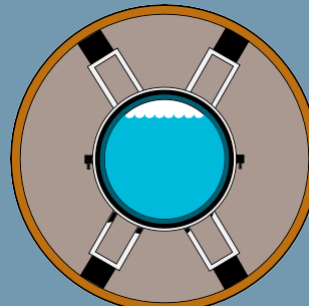
For larger diameter pipelines and bell and spigot applications, APS spacers are available with runners/risers to provide an extra margin of safety. The bands are constructed of 14 gauge stainless steel with a 0.090" EPDM liner.



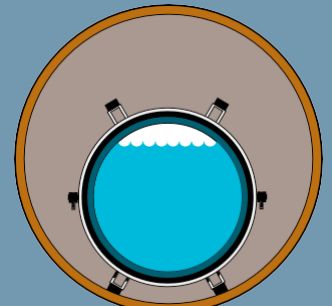
Centered



Non-Centered, Restrained



Centered & Restrained



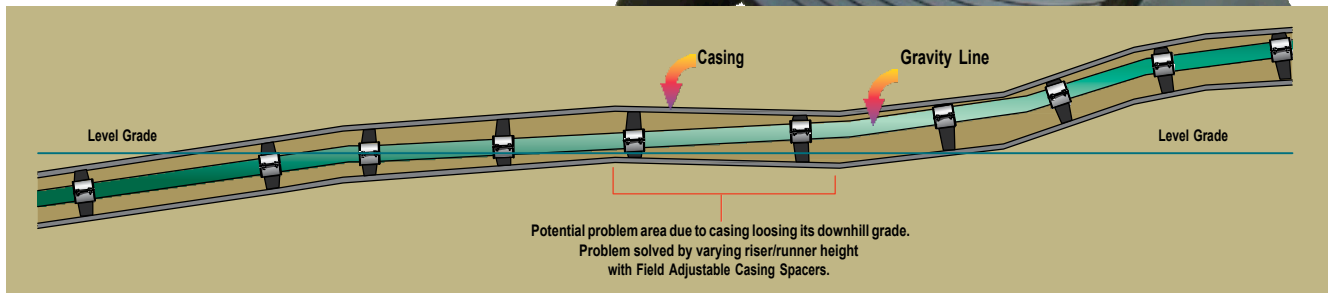
Clear Bell

neW Field-ChAngeAble risers/Runners For CASing SPACers

APS has recently developed Field-Changeable Risers/Runners for Casing Spacers with 8" wide bands.

Facts & Advantages:

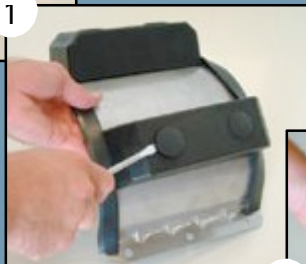
- *Field-changeable*
- *Used for easy grade and elevation adjustment of gravity sewer lines*
- *Lend the ability to stock in-house decreasing inventory up to 75%*
- *Stockable spacers will include 10-12 bands up to 24"*
- *Risers/Runners size from 1" to 6" in 1/2" increments (see pages 3 and 4 for list of all riser/runner sizes)*



*Patented



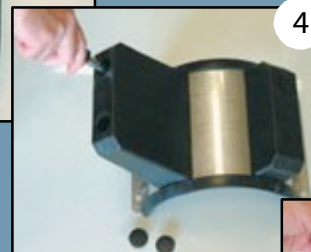
Remove riser/runner caps



Unbolt old riser/runner using ordinary hand tools



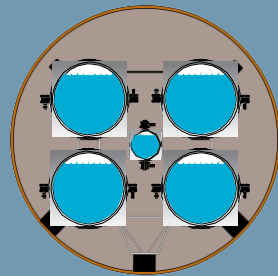
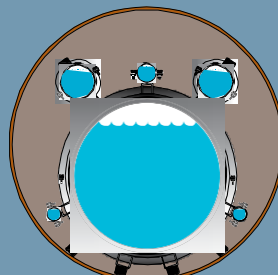
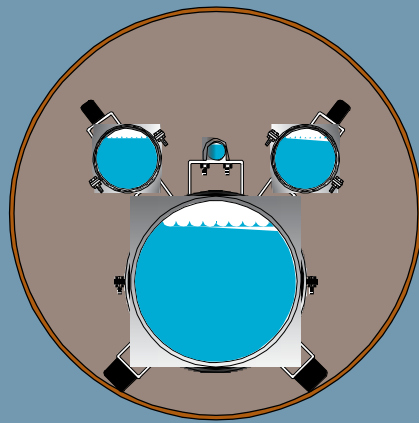
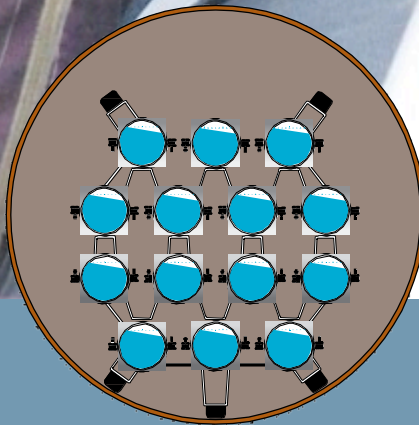
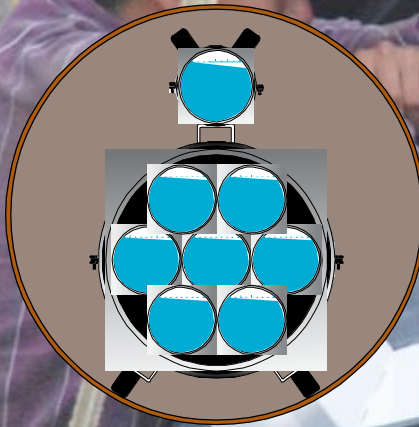
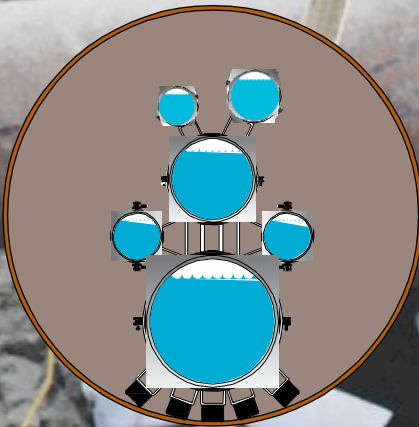
Choose riser/runner height needed and slip on to anchor bolts



Rebolt and replace caps (do not exceed 80 in-lbs), casing spacer is ready for installation



APS... the leADER For CASing SPACer CluSters

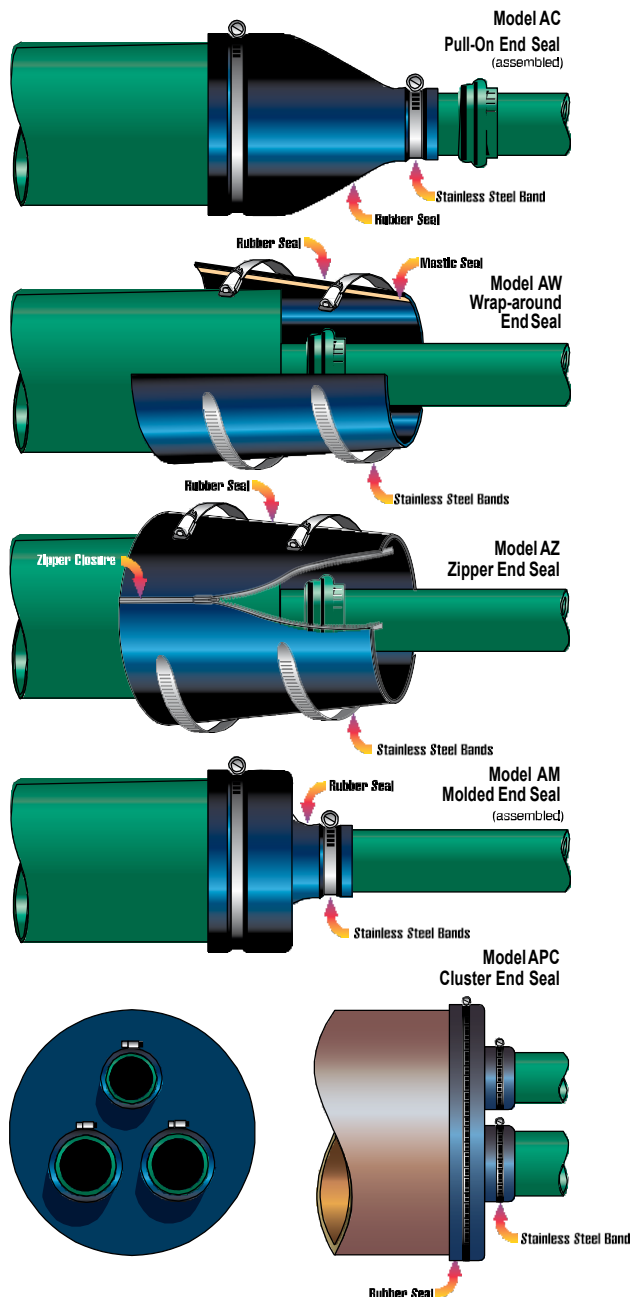


types of APS Clusters:

- For Multiple Pipe Clusters
- For Conduit Pipes
- For Cables

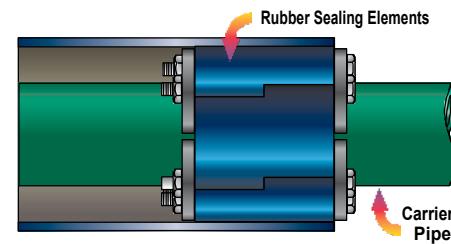
We have supplied spacers for as many as 24 carrier pipes in one casing.





Innerlynx Model End Seal

End Seals



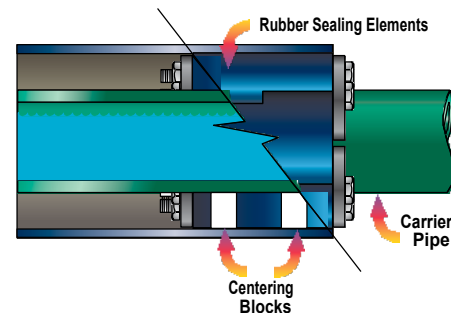
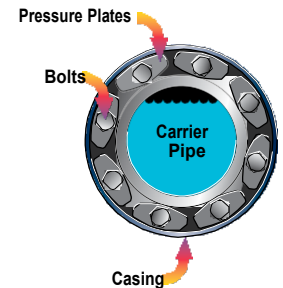
Types of Innerlynx End Seals

IL-C - Standard pipe INNERLYNX with insulating type plate.

IL-S316 - Pipe INNERLYNX with stainless steel hardware

IL-CB - Pipe INNERLYNX with centering block feature.*

IL-O Nitrile - INNERLYNX can be used for fuel applications in airports



*Centering Blocks are plastic reinforcements that assure a penetrating pipe will stay "centered" within its casing and adds extra support against heavy loads from back fill.

APS manufactures full conical shaped end seals in the seamless pull-on, wrap-around, molded, zipper and cluster styles. All five are made of 1/8" thick synthetic rubber assuring excellent chemical resistance and resiliency and can accommodate any combination of pipe sizes. These products outperform the costly and labor intensive brick and mortar method of sealing casing ends. While soil stress and pipe movement cause mortar to crack, the APS end seals move with the pipe insuring the integrity of your seal.

The model AC and AM end seals can easily be installed at the time of construction. Models AC, AW and AZ can be produced in concentric (for centered carrier pipes) and eccentric (for non-centered pipes). The model AW wrap-around end seals are designed to facilitate installation when the carrier line has already been installed and the pull is complete. Simply 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 seal.

Model AZ, zipper type end seal, is designed for use on new construction and on existing casings that require modifications or extension. Stainless steel zippers are pressure molded to the rubber and feature a protective rubber strip attached to the seal under the zipper to prevent damage or abrasion to the pipe. They are also easy to install. The seal wraps around the casing end and carrier pipe and zips shut to provide a tight seal while still allowing for pipe movement.

Model APC, cluster end seals, are now available for multi-carrier installations. Contact customer service for more information.

All five types of APS 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. Only a screwdriver is needed for installation.

In addition, Innerlynx form a mechanical seal between pipelines and casing. Innerlynx form a hydrostatic seal and electrically isolate the carrier pipe from the casing. Innerlynx can be installed by one person and require no special tools.

How to Order

Please Indicate the Following:

- Project Reference and Location

Metal Insulators

- Model number: SI (steel) or SSI (stainless steel)
- Carrier Pipe O.D. Including Coating Thickness
- O.D. of Bell or Mechanical Joint
- Casing O.D.
- Casing Wall Thickness
- Type or Size of Runner
- Height and Width of Runner
- Configuration: Clear Bell, Centered, Centered and Restrained, or Non-centered and Restrained

Plastic Insulators

- Carrier Pipe O.D. Including Coating Thickness
- O.D. of Bell or Mechanical Joint
- Casing O.D.
- Casing Wall Thickness
- Configuration: Clear Bell, Centered, Centered and Restrained, or Non-centered and Restrained

End Seals

- Model: AC (pull-on), AW (wrap-around), AZ (zipper), AM (molded)
- Carrier Pipe O.D. Including Coating Thickness
- Casing O.D.
- Configuration: Centered or Non-centered

Other Quality Products Available:

- Standard Isolating Gasket Kits
- Kleeband® Flange Band Protectors
- Radolid® Bolt and Nut Protection Caps
- UBolt-Cote® and Atlas® Pipe Support Pads
- Duocon Centralizers
- Foreman Nite Caps - temporary pipe plugs
- ISOJOINT® - Monolithic Isolating Joint
- Safety Spray Shields
- Innerlynx® - Modular Mechanical Seals
- Gal-vo-plast® Coated Wall Sleeves



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