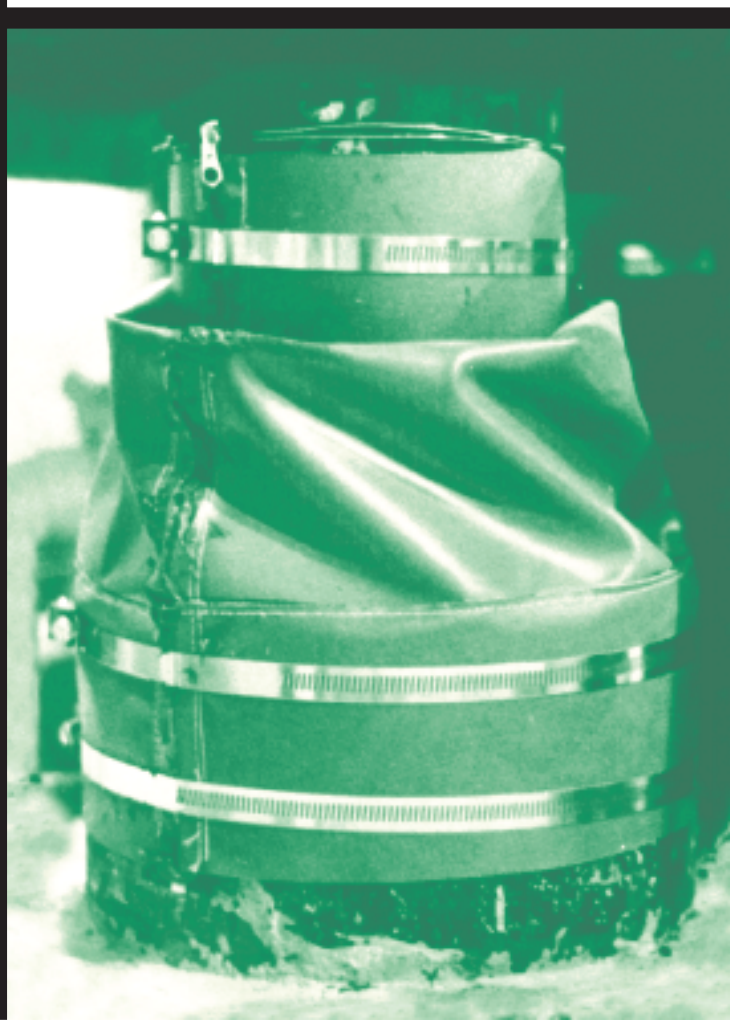
GORTISEAL®

Piping Penetration Seals



GORTITE

DESIGNED FOR NUCLEAR AND CONVENTIONAL POWER PLANTS, REFINERIES AND CHEMICAL PLANTS

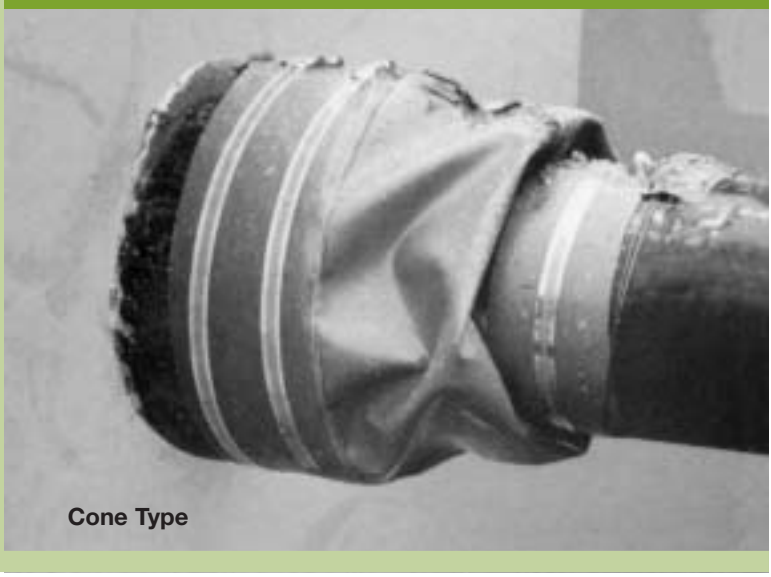
Fire Tested per ASTM E-119-73 in accordance with American Nuclear Insurers (ANI) Standards • Bellows and Cone type design to allow lateral and axial movement • Zippered for easy installation • Available for any size pipe and sleeve size.

Purpose of

GORTISEAL®

"Gortiseal" piping penetration seals are designed to provide a flexible and safe method of sealing process piping. They have been effectively used in nuclear and conventional power plants, refineries and chemical plants. Manufactured of durable, elastomer-coated fabrics, these seals allow lateral and axial movement of pipes up to several inches. Both bellows type and cone shaped seals have a built-in zipper that permits easy installation after piping has been installed.

Bellows Type



Cone Type

The primary applications for Gortiseal piping penetration seals are:

- To maintain pressure differentials between rooms.
- To prevent water and air leakage through wall, floor and roof openings.

Gortiseal piping penetration seals have been tested per ASTM E-119-73 in accordance with American Nuclear Insurers (ANI) standards for fire wall applications. For proper installation in fire walls, see Figure 1.

RECOMMENDED GORTISEAL INSTALLATION FOR FIREWALL APPLICATIONS

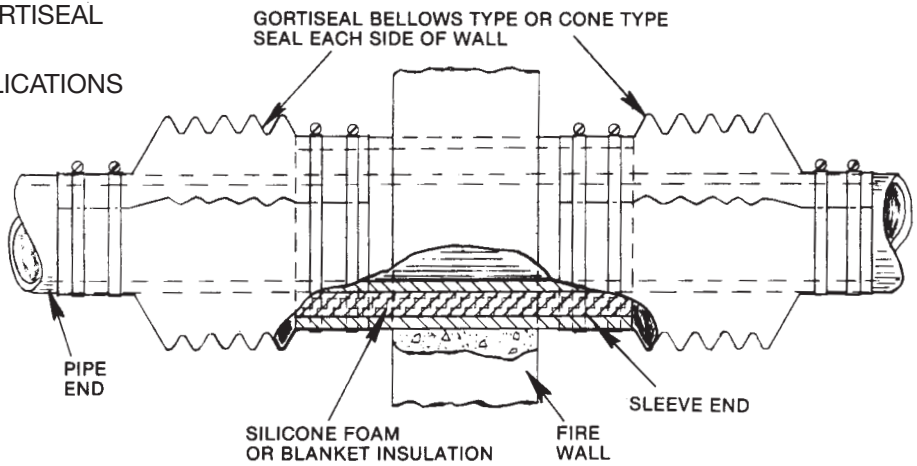


Figure 1

MATERIALS OF CONSTRUCTION

- Bellows and Cones
  Hypalon/Nylon (Temperature Range – 40°F to 320°F)
- Silicone/Fiberglass (Temperature Range – 100°F to 450°F)
- Mounting Clamps
  Stainless Steel Worm Gear Type
- Zipper
  Brass Teeth on Nylon Backing Tape

STANDARD SIZES (LENGTHS)

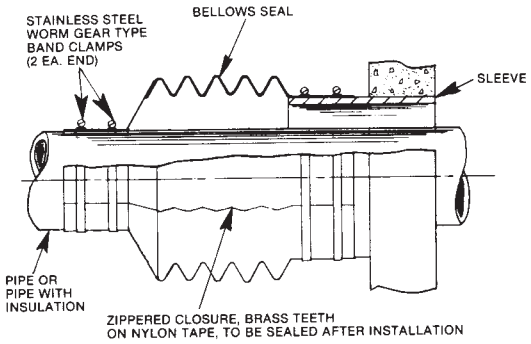
Sizes shown are applicable for both Bellows and Cone Type Gortiseal Seals.

S Designed for 6″ installed length up to ±2″ lateral and axial movement

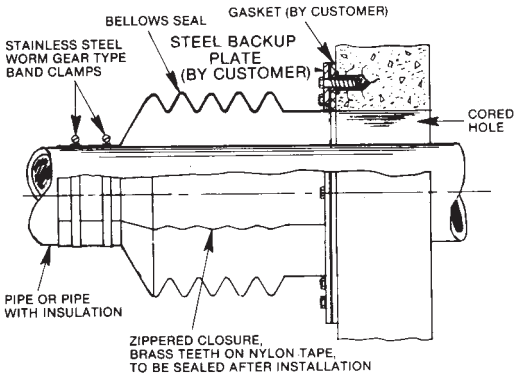
M Designed for 6″ installed length up to ±4″ lateral and axial movement

L Designed for 6″ installed length up to ±6″ lateral and axial movement

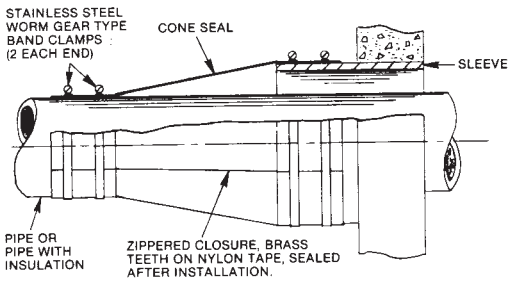
Other custom sizes are available on request. See back cover for complete design and order information.



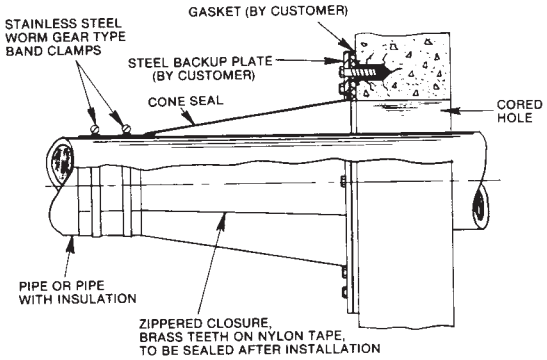
BELLOWS TYPE 1



BELLOWS TYPE 2



CONE TYPE 3



CONE TYPE 4

INSTALLATION PROCEDURE

1) SELECT PROPER SEAL.

2) UNZIP BELLOWS OR CONE (SUGGEST TWO MAN OPERATION).

3) PLACE AROUND PIPE OR LAGGING & SLEEVE.

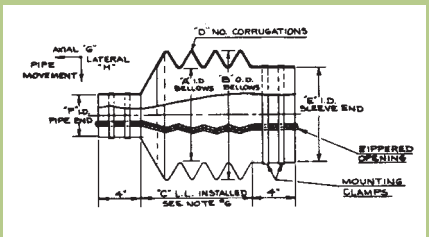
4) REZIP (SUGGEST TWO MAN OPERATION).

5) SEAL ZIPPER OPENING WITH RTV SILICONE (SUGGEST TUBE TYPE APPLICATOR WITH NOZZLE). ALLOW SIX TO EIGHT HOURS FOR SILICONE TO CURE. DO NOT DISTURB BELLOWS UNTIL CURE TIME HAS ELAPSED AS IT WILL LOOSEN BOND.

6) POSITION & TIGHTEN CLAMPS ON SLEEVE END. EXTEND BELLOWS TO DIMENSION “C” “LIVE LENGTH”. POSITION CLAMPS ON PIPE END AND TIGHTEN.

7) SEAL ANY CRACKS AROUND BELLOWS OR COLLARS WITH SILICONE TO ASSURE PRESSURE TIGHT SEAL.

How to Design and Order Gortiseal Piping Penetration Seals

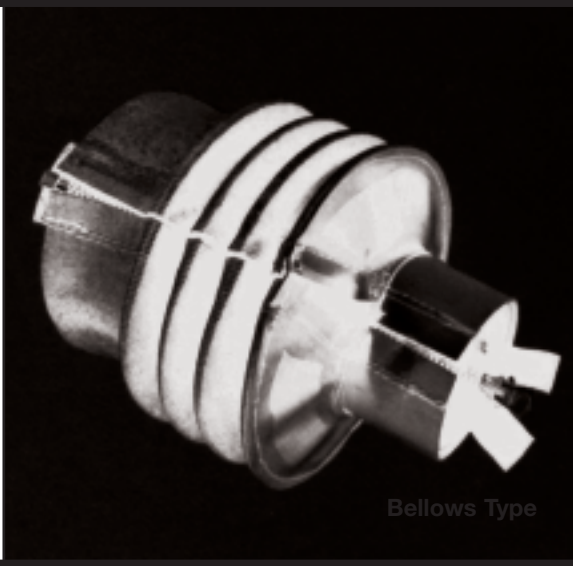


SPECIFY

1. Sleeve O.D. or Wall Hole Dimension **(E)**
2. Pipe or Insulation O.D. **(F)**
3. Axial Movement **(G)**
4. Lateral Movement **(H)**
5. Type (Bellows or Cone)
6. Size (S, M, or L)

A, B, C, D – Determined by A & A

Cone Type



Bellows Type

To Order or For Quotation

Order No._____

Date _____ Quote only_____

Name_____

Company_____

Address_____

City_____State _____ Zip_____

Telephone_____Fax_____

Project_____

Location_____Specified by _____

Qty.	**E** Sleeve O.D. or Hole Size	**F** Pipe or Insulation O.D.	**G** Axial Movement	**H** Lateral Movement	Type	Size	Remarks

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