WEICCO®

RUBBER SUPPORT INSERTS

A convenient and effective means of preventing crushing of insulation at pipe support points of chilled water, condenser water and domestic hot / cold water installations. Available for any pipe size and insulation thickness.

Product Features

- Based on long experience as specialists in pipe support systems, WEICCO pioneered the concept of using high density moulded rubber to prevent crushing of pipe insulation at support points. RSI offer **significant advantages over other materials** such as wood or foamed products :
  a) Resistance to deterioration / distortion with time and exposure to moisture.
  b) Eliminate need for termite control treatment, as required for wood.
  c) Rubber being an inert material, RSI are not corrosive to metal pipes, as wood is.
  d) Dimensional accuracy is ensured since each set is individually machine molded.
  e) It is an ***eco-friendly product*** - does away with the need to fell trees just to make pipe rings.
  f) Installation of additional metal shields for wider load distribution is not required with RSI, as it is for foamed products.
- WEICCO Rubber Support Inserts are **fully tested and guaranteed for minimal distortion** under large pipe loads. Excessive distortion and opening up of rubber support inserts under load has often been observed on some other brands.
  Important Note
  a) Standard widths of our RSI, which go up to 100mm for large sizes, have been decided based on extensive load testing. Some offer lower widths, for a price advantage or due to manufacturing constraints. Not only does this severely compromise load bearing capacity, it also leads to the problem of width of the insert being less than the hanger itself.
  b) To compensate for width compromises or poor moulding, some manufacturers insert steel into the rubber for more load bearing capacity. This must be avoided since it drastically increases thermal conductivity of the product.
- The **'Tongue & Groove'** locking arrangement between RSI halves saves time / labor and eliminates possibility of air-gaps or relative shift, thereby minimising loss of insulation efficiency.
- Usage of RSI at pipe support locations provides the additional benefit of **noise attenuation**, since the rubber acts as an acoustic barrier against the structural transmission of high frequencies.
- RSI form an integral, coordinated part of our pipe support system. Available for any common pipe size / insulation thickness, they are compatible for use with our extensive range of various types of supports. Using RSI with matching WEICCO pipe hangers / supports serves to **simplify, speed up and enhance the quality** of piping installations.

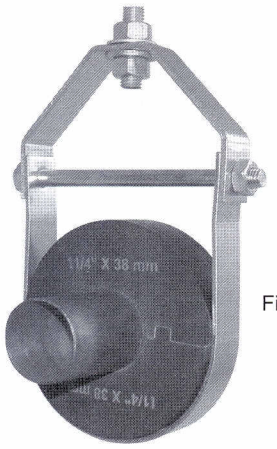

Figure 1

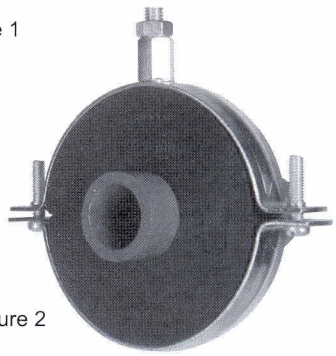

Figure 2

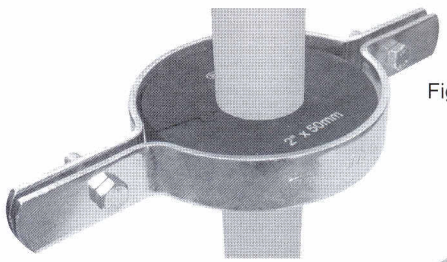

Figure 3

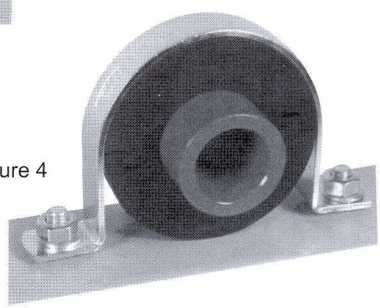

Figure 4

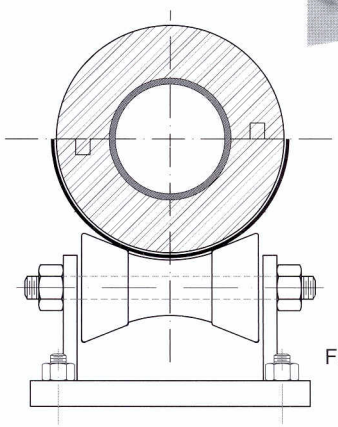

Figure 5

Examples of typical Pipe Support installations with RSI

Please refer overleaf for selection information..

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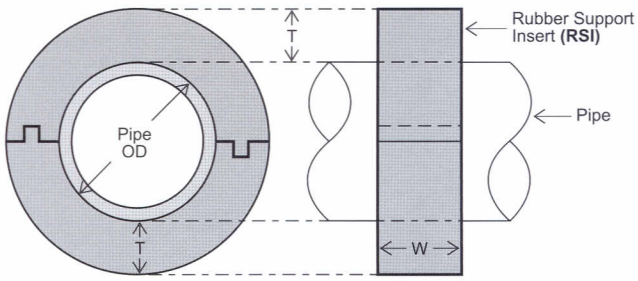

T - RSI / Insulation Thickness, W - Width of RSI

Selection / Ordering

- Please specify the Nominal Pipe Size, Pipe OD and Insulation Thickness
- Available RSI Sizes
  Refer to adjacent table
- Available RSI Thicknesses
  WEICCO RSI are available for the following standard insulation thicknesses :
  13mm, 19mm, 25mm, 32mm, 38mm, 50mm, 63mm, 75mm
- Standard RSI Widths
  Refer to adjacent table for the standard widths of RSI at different pipe sizes.

  WEICCO RSI are fully tested for adequate load bearing capacity at the supplied standard widths. However, if for any reason higher widths are required, they are available on application.

  We strongly caution against using inserts with lesser widths or with steel inserted in the rubber to increase load bearing capacity.
  Please refer to the second point under 'Product Features' overleaf for more details.
- For ordering pipe hangers and supports sized to suit the RSI, stating only the type needed will be sufficient information for us to make the appropriate selection of models. A few support types with which RSI are commonly used include *(please see installation examples overleaf)* :
  Adjustable Clevis Hangers (WCH) - *Figure 1*
  Split Clamps (WSC) - *Figure 2*
  Riser Clamps (WVC) - *Figure 3*
  U-Strap Clamps (USC) - *Figure 4*
  Roller Stands (WRLS) - *Figure 5*
  U-Bolts (UB), Roller Chairs (WRLC), Roller Hangers (WRLH), Pipe Stanchion Saddles (PSS) Clamp Shoe Slide Assemblies (CSSA) etc.
- **Fire Retardant RSI** are available on application. Please specify model as RSI-FR.

Installation Guidelines

Product packing includes printed recommendations regarding installation.

RSI Sizes, Standard Widths		
Pipe Size		Standard Width
Steel (Nominal)	Copper (OD)	
	16mm	25mm
½"	22mm	25mm
¾"	28mm	25mm
1"	35mm	25mm
1¼"	42mm	25mm
1½"		25mm
	54mm	25mm
2"		25mm
	67mm	25mm
	73mm	38mm
2½"	76mm	38mm
	80mm	38mm
3"		38mm
	105mm	38mm
	108mm	38mm
4"		38mm
5"	140mm	38mm
	156mm	38mm
	159mm	38mm
6"		50mm
	168mm	50mm
8"	219mm	50mm
10"		50mm
12"		50mm
14"		50mm
16"		75mm
18"		75mm
20"		100mm
24"		100mm
28"		100mm
30"		100mm
36"		100mm
40"		100mm

Specifications

- **Material** : Compounded rubber
- **Load Bearing Capacity** : Designed to bear maximum expected operating weight of pipes as per support spans recommended by Manufacturers' Standardisation Society (US) Standard MSS SP-69.
- **Density** : 1190 Kg/m^3
- **Thermal Conductivity** : 0.16 w/m $^{\circ}$C
- **Fire Rating** : Fire Retardant RSI (RSI-FR) have a rating of V-1 according to UL 94.

Compliance - BS 3974 : Part 1 (1974)

Please refer overleaf for product details..