

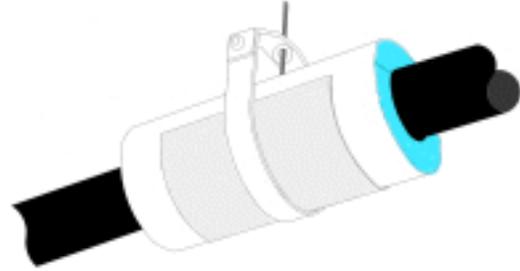
# **INDUSTRIAL INSULATION SALES, INC.**

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## **PRE-INSULATED PIPE SADDLE TYPE A-URSA**

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### **Description**

The Type A-URSA saddle is a preformed modified polyisocyanurate rigid foam insulation pipe support with a sheet metal shield. A-URSA saddle offers exceptionally efficient insulation performance with good resistance to compression. The simple design of this pre-insulated pipe support is intended to simplify piping installations and provide uninterrupted runs of insulated piping. The Type A-URSA saddle is intended for use on hot and cold piping in the temperature range of -200°F (-129 °C) to + 300°F (149 °C). It is used to support small to medium size pipes of 6" nominal pipe size and smaller in the commercial and industrial mechanical piping markets.

The A-URSA pre-insulated saddle is manufactured with a factory applied vapor retarding All Service Jacketing (ASJ) and is accompanied with a 180° galvanized sheet metal shield. The A-URSA is composed of two pieces of 180° preformed rigid foam insulation wrapped in the ASJ vapor barrier jacketing to form a hinged one piece cylindrical piece. The one piece hinged section opens to receive the pipe. As the connections are made and the piping is leveled, the A-URSA pipe saddle along with the sheet metal shield can be slid into the hangers providing permanent insulated support. The use of pre-insulated pipe supports eliminates the need to go back and remove any temporary pipe leveling blocks as the insulation systems are installed. The overall design offers simplified pipe installation and an uninterrupted run of insulated piping. The A-URSA meets the Standard Practice guidance of MSS-SP-58, 9.2.2 for Type 40 protection shields and MSS-SP-69, Table 5, maximum hanger spans when band type hangers are used.

### **Advantages:**

- Uninterrupted runs of insulated pipes
- Assist with piping alignment
- Safety, eliminates potential falling out of temporary blocks of wood
- Easy installation with neat and clean appearances at hangers
- Asbestos and CFC free

**Designed for:** • Hot Water • Cold Water • Chilled Water • Dual Temperature • Refrigerant • Air • Gas •

**Temperature Range:** -200°F (-129°C) to + 300°F (+149°C)

**Available sizes:**

- Nominal Pipe Sizes - 1/2" through 6"
- Tubing Sizes - 5/8" through 6-1/8"
- other diameter pipe or tubing sizes available

(See reverse side for physical properties)

**Physical Properties of the A-URSA Saddle:**

A.) Modified Rigid Polyisocyanurate Foam Insulation:

Density: (ASTM D 1622)	2 lbs. per cu. ft.
Compressive Strength: (ASTM D 1621)	24 lbs per sq. in.
Shear Strength (ASTM C 273)	15 lbs./in <sup>2</sup>
Insulating Values (ASTM C 518)	k - value .190 BTU·in/hr·sf <sup>2</sup> ·°F - aged 180 days @ 75°F R - value 5.3 Hr·ft <sup>2</sup> ·°F/BTU - aged 180 days @ 75°F@1" thick
Water Absorption (ASTM C 272)	<0.7% by volume
Water Vapor Permeability (ASTM E 96)	4.0 perm per inch
Close cell content (ASTM D 2856)	90%

B.) All Service Vapor Barrier Jacketing (ASJ)

Water Vapor Permeability (ASTM E 96-A)	.02 perms per inch
Puncture Resistance (TAPPI T 803)	60 beach puncture units
Tensile Strength (ASTM D 828)	50 lbs./inch average
Mold and Mildew Resist. (ASTM C-1338)	No growth of organisms

\* Other jacketings are available: PVC, Aluminum, Stainless Steel, Tedlar & Hypalon

C.) Sheet Metal Shield

Type: Galvanized Steel

Gauge: 22 - 16 gauge, based on pipe size, insulation thickness and saddle length.

\* Stainless Steel shield also available.

Notice: Any construction material which will be placed overhead of any personnel should be evaluated for a potential falling hazard. During installation it maybe necessary to add a securing band to the pipe support where excessive pipe movement could occur during installation.

Polyisocyanurate foam insulation is combustible and should be protected from flame and other heat sources. Since use conditions and government regulations may differ from one location to another, and may change with time, it is the Buyer's responsibility to determine whether this product is appropriate for Buyer's use and to assure Buyer's use, workplace and disposal practices are in compliance with laws, regulations, ordinances and other government enactments applicable in the jurisdiction have authority over the Buyers operation