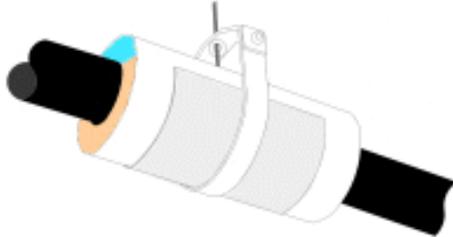


INDUSTRIAL INSULATION SALES, INC.

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PRE-INSULATED PIPE SADDLE TYPE M - URSA

Description

The Type M-URSA saddle is a rigid modified polyisocyanurate high density foam insulation pipe support with a sheet metal protection shield. M-URSA saddle offers very good resistance to compression coupled with excellent thermal insulation performance. M-URSA are widely used in the commercial and industrial mechanical piping markets. The overall design offers simplified pipe installation and an uninterrupted run of insulated pipe. The M-URSA pipe saddles are simply slid into the pipe hangers as the piping connections are made, providing a permanent insulated leveling block, thereby eliminating the need to remove any temporary non-insulating pipe leveling objects that are used while piping is being installed. The Type M-URSA saddle is used on hot and cold piping in the service temperature range of -200°F (-129°C) to + 300°F (149°C). It is designed to support medium to large piping from 6" to 24" nominal pipe sizes. The M-URSA saddle meets the Standard Practice guidance of MSS-58, 9.2.2 for Type 40 protection shields and MSS-69, Table 5, maximum hanger spans when band type hangers are used.

Construction

The M-URSA saddle's supporting lower half is made from a 4# density high compression strength rigid polyisocyanurate foam insulation. A standard 2# density polyisocyanurate is used for the top half of this insulation saddle. The two modified polyisocyanurate foam halves are factory wrapped with vapor retarding All Service Jacketing (ASJ). Each saddle is accompanied with a 180° galvanized sheet metal protection shield rolled to the same radius as the insulation saddle. The M-URSA insulated saddle is manufactured to conform to ASTM C 585, inner and outer diameters for pipe insulation.

Advantages:

- Uninterrupted runs of insulated pipes
- Safety, eliminates potential falling out of temporary blocks of wood
- Ease of installation
- 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 24"
- Tubing Sizes - 5/8" through 12"
- other sizes diameter pipe or tubing available

(See reverse side for physical properties)

Physical Properties of the M-URSA Saddle:

A.) Modified Polyisocyanurate Foam Insulation:

Density: (ASTM D 1622)	Top 180 degree Bottom 180 degree	2 lbs. per cu. ft. 4 lbs. per cu. ft.
Compressive Strength: (ASTM D 1621)	Top 180 degree Bottom 180 degree	24 lbs per sq. in. 80 lbs per sq. in.
Shear Strength (ASTM C 273)	Top 180 degree Bottom 180 degree	15 lbs./in ² 42 lbs./in ²
Insulation Values (ASTM C 518)	k - value .190 BTU·in/hr·sf ² ·°F - aged 180 days @ 75°F R - value 5.3 Hr·ft ² ·°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% minimum	

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.) Outer Metal Jacketing

Type:	Galvanized Steel (Stainless Steel shield also available)
Gauge:	22 - 16 gauge, based on pipe size, insulation thickness and saddle length.

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

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 Buyer's operations.