ISOCOVERS

Insulation Systems

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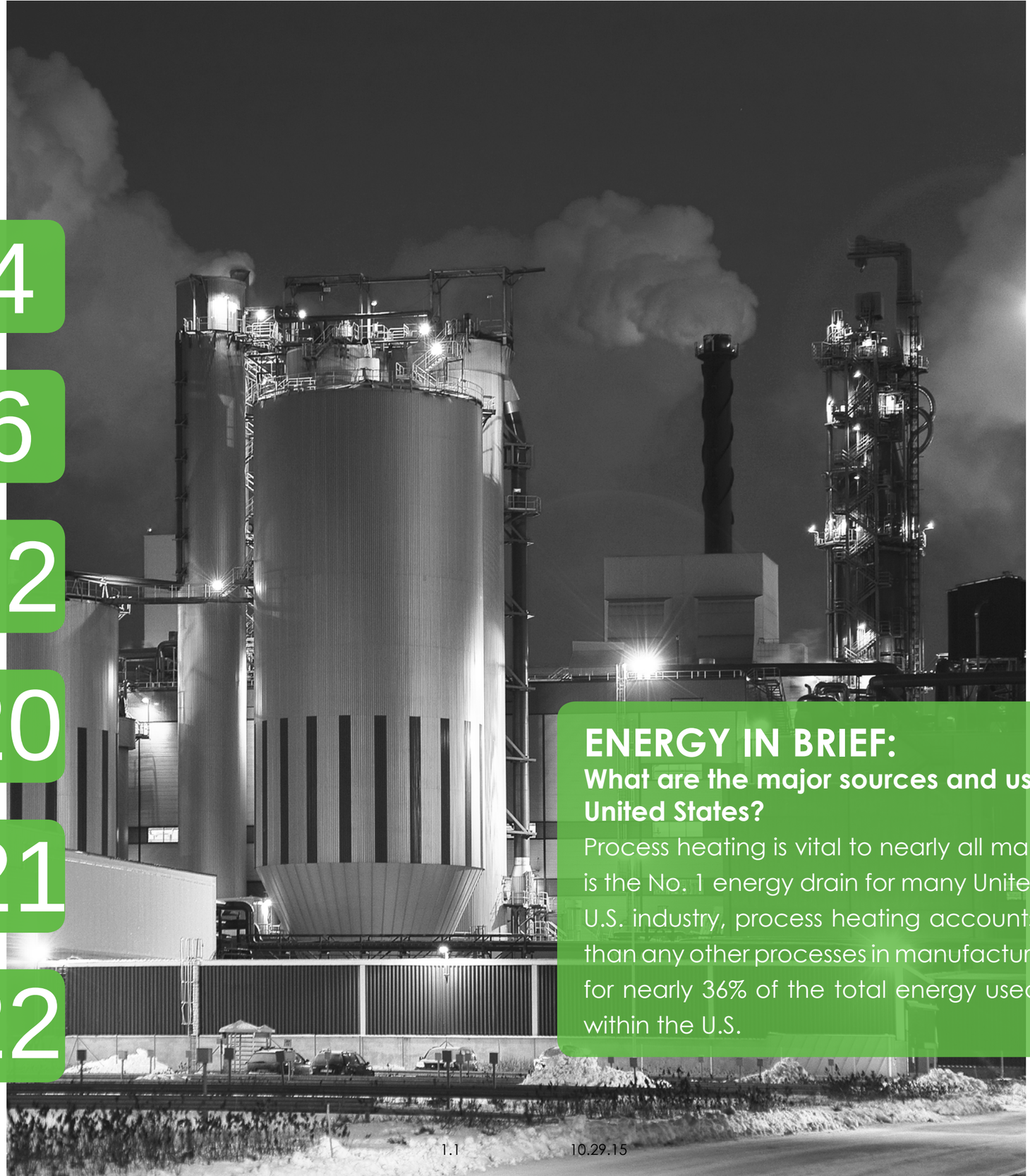


ISOCOVERS INSULATION SYSTEMS:

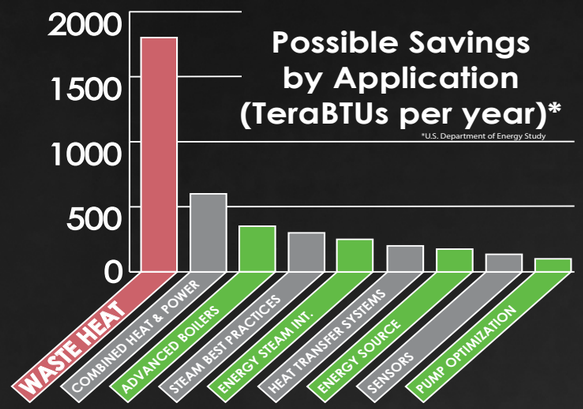
ENERGY IN BRIEF:

What are the major sources and users of energy in the United States?

Process heating is vital to nearly all manufacturing processes. Yet, it is the No. 1 energy drain for many United States industrial facilities. In U.S. industry, process heating accounts for more direct-energy use than any other processes in manufacturing. Industrywide, it accounts for nearly 36% of the total energy used in industrial manufacturing within the U.S.

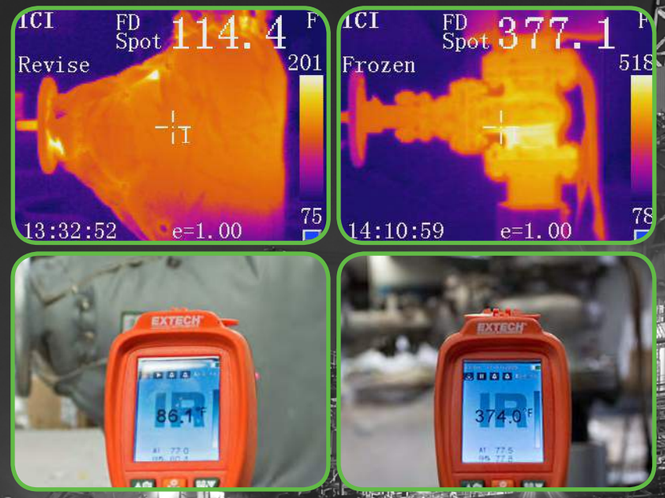
The Hard Reality and a Difficult Truth:

Industrial manufacturers use a significant amount of the energy in this country. Energy and natural resources are the lifeblood of manufacturing. Yet, energy consumption in U.S. industry — and its impact on the economy — is greater than the sum of its parts.



The Predicament:

In most manufacturing facilities today, more than half of the heat generated goes to waste. During these manufacturing processes, as much as 20% to 50% of the energy consumed is lost via waste heat. These discharges are the result of process inefficiencies and the inability of the existing process to recover and use the excess energy streams.



The Solution:

A valuable approach to improving overall energy and operational efficiency is to harness and reuse the lost or waste heat that is intrinsic to all industrial manufacturing. For that reason, using thermal insulation to reduce the consumption of energy in the form of heat is the most effective way of accomplishing this goal.

Insulation saves over 600 times more energy each year than all of the compact fluorescent lights (CFLs), ENERGY STAR Appliances and ENERGY STAR Windows combined. (U.S. Environmental Protection Agency, ENERGY STAR Homes. Calculations performed by B. McNary, October 2006.)

Insulation and Process Control: A properly installed insulation system on bare process lines and equipment can increase the efficiency of a process system by 95% or more. By reducing the heat loss or gain, insulation can help maintain the process temperature to a pre-determined value.

PROCESS	APPLICATION	EQUIPMENT	INDUSTRY
Agglomeration-Sintering	Metals Production	Various Furnace Types, Kilns, Microwaves	Primary Metals
Calcining	Lime Calcining	Various Furnace Types	Cement, Wallboard, Pulp and Paper Manufacturing, Primary Metals
Curing and Forming	Coating, Polymer Production, Enameling	Various Furnace Types, Ovens, Kilns, Lehrs, Infrared, UV, Electron Beam, Induction	Ceramics, Stone, Glass, Primary Metals, Chemicals, Plastics and Rubber
Drying	Water and Organic Compound Removal	Fuel-Based Dryers, Infrared Resistance	Stone, Clay, Petroleum Refining, Agricultural and Food, Pulp and Paper, Textile
Forming	Extrusion, Molding	Various Ovens and Furnaces	Rubber, Plastics, Glass
Fluid Heating	Food Preparation, Chemical Production, Reforming, Distillation, Cracking, Hydrotreating, Visbreaking	Various Furnace Types, Reactors, Resistance Heaters, Microwave, Infrared, Fuel-Based Fluid Heaters, Immersion Heaters	Agricultural and Food, Chemical Manufacturing, Petroleum Refining
Heating and Melting-High-Temperature	Casting, Steelmaking, Glass Production	Fuel-Based Furnaces, Kilns, Reactors, Direct Arc, Induction, Plasma, Resistance	Primary Metals, Glass
Heating and Melting-Low-Temperature	Softening, Liquefying, Warming	Ovens, Infrared, Microwave, Resistance	Plastics Rubber, Food, Chemicals
Heat Treating	Hardening, Annealing, Tempering	Various Fuel-Based Furnaces, Ovens, Kilns, Lehrs, Laser, Resistance, Induction, Electron Beam	Primary Metals, Fabricated Metal Products, Glass, Ceramics
Incineration/Thermal Oxidation	Waste Handling/Disposal	Incinerators, Thermal Oxidizers, Resistance, Plasmas	Fabricated Metals, Food, Plastics, and Rubber, Chemicals
Metals Reheating	Forging, Rolling, Extruding, Annealing Galvanizing, Coating, Joining	Various Types of Furnace, Ovens, Kilns, Heaters, Reactors, Induction, Infrared	Primary Metals, Fabricated Metal Products
Separating	Air Separation, Refining, Chemical Cracking	Distillation, Membrane Filter Presses	Chemicals
Smelting	Steelmaking and Other Metals (e.g., Silver)	Various Types of Furnaces	Primary
Other Heating Processes	Food Production (including Baking, Roasting, and Frying), Chemical Production, Sterilization	Various Types of Furnaces, Oven, Reactors and Resistance Heaters, Microwave, Steam, Induction, Infrared	Agricultural and Food, Glass, Ceramics, Plastics and Rubber, Chemicals

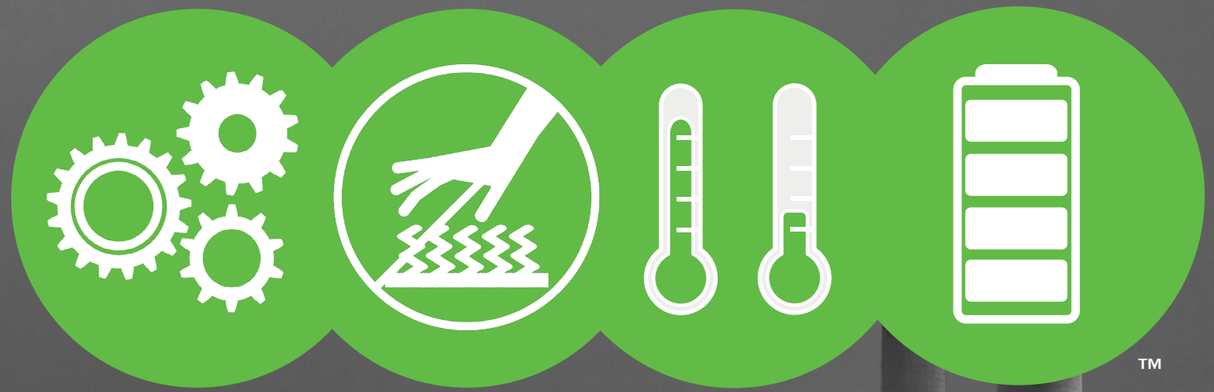
Courtesy the United States Department of Energy Office of Energy Efficiency and Renewable Energy, Industrial Technologies Program, in cooperation with the Industrial Heating Equipment Association, 2007

NOTE: Many process heating applications do not fall in the preceding categories; however, they can account for a significant amount of industrial energy use, collectively. The data table above summarizes the processes and identifies the applications, equipment and industries where these processes are commonly used.

ISOCOVERS INSULATION SYSTEMS ARE USED TO PERFORM ONE OR MORE OF THE FOLLOWING FUNCTIONS:

PREVENT OR REDUCE DAMAGE TO EQUIPMENT

FACILITATE TEMPERATURE CONTROL OF A PROCESS



CONTROL SURFACE TEMPERATURES FOR PERSONNEL PROTECTION AND COMFORT

CONSERVE ENERGY BY REDUCING HEAT LOSS OR GAIN

Using ISOCOVERS Insulation Systems IN ...

» The market sectors with attractiveness for waste heat recovery include:

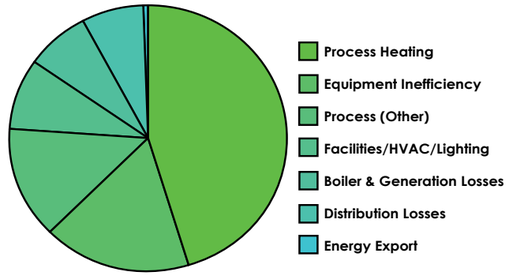
- Food and beverage
- Pharmaceuticals
- Refineries
- Chemical plants
- Plastics
- Pulp and paper mills
- Textiles
- Metal processing
- Rubber
- Shipbuilding
- Power generation
- HVAC Industry

Using ISOCOVERS Insulation Systems ON ...

» Some of the potential sources of waste heat include:

- Valves
- Flanges
- Fittings
- Strainers
- Pipes
- Pressure-reducing valves
- Filters and regulators
- Pumps
- Manifolds
- Sight glasses
- Desuperheaters
- Exhaust systems

Industrial Energy Usage Chart
Source: U.S. Department of Energy



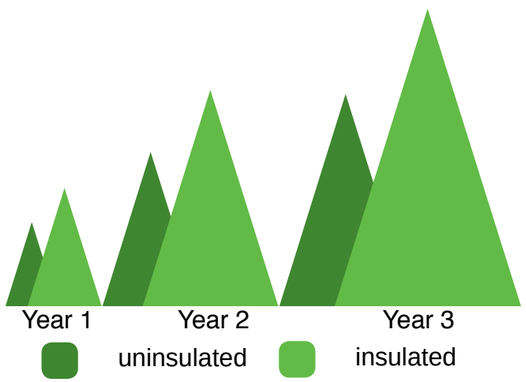
ISOCOVERS INSULATION SYSTEMS:

Piping in most buildings is generally well insulated. However in some sites there are pipe runs, mechanical fittings and valve bodies that are bare. When left bare, uninsulated valves and fittings can lose huge amounts of heat that can significantly increase energy-bill costs and create unnecessary health and safety issues. This can be avoided by simply installing insulation on the uninsulated or under-insulated valves and fittings.

ISOCOVERS Insulation Systems offer a broad base of superior, energy-saving solutions that conserve energy, preserve process temperatures and improve workplace safety. ISOCOVERS Insulation Systems are used on various applications within the process industry where heat conservation and process temperature are concerns.

Unlike most removable insulation systems, ISOCOVERS Insulation Systems come in standard, universal sizes that are available for “off-the-shelf” delivery. ISOCOVERS Insulation Systems are designed to fit an array of fittings and sizes – and can be used on almost any application that requires thermal processing.

ISOCOVERS Insulation Systems will generally pay for themselves in less than 12 months. No other energy project will pay for itself as quickly — and with as little upfront effort — as ISOCOVERS Insulation Systems.



But let’s take a look at what the U.S. Department of Energy has to say. According to the DOE, if you insulate a single 6-inch gate valve on continuous operation at 400˚F with a fuel cost of $8/MMBtu, you can save $525 per year with each insulation cover fitted. Multiply that by the number of ISOCOVERS Insulation Systems you install, and you can see how the savings can mount up quickly.

ISOCOVERS INSULATION SYSTEMS:

Designing removable insulation covers for use on piping and equipment in commercial / industrial HVAC and power and process applications can sometimes be a challenge. While straight piping and simple geometries are straightforward, many components have either complex geometrical shapes, or a number of protrusions and supports, which need to be accounted for.

Fortunately, the ISOCOVERS Insulation Systems product line is designed to insulate not only straight sections of piping, but also complex surfaces such as valve bodies and other multifaceted configurations.

» ISOCOVERS Insulation Systems create a **SAFER WORKING ENVIRONMENT** for your employees and increase equipment lifespan by protecting key components from high temperatures.

» ISOCOVERS Insulation Systems are made with **STANDARD, READILY AVAILABLE, OFF-THE-SHELF COMPONENTS** that can be easily configured for almost any application requirement.

» ISOCOVERS Insulation Systems are **COMPLIANT WITH OSHA SAFE-TOUCH STANDARDS** for exposed heated surfaces (if there is a potential for injury).

» ISOCOVERS Insulation Systems deliver an **INCREASED CONTROL OF PROCESS TEMPERATURES** to enhance production capacity by reducing the amount of energy needed to keep equipment running at high temperatures.

ISOCOVERS Insulation Systems are constructed in three layers:

- The primary inner layer (hot face) is made of Fiber 2025 1022°F (550°FC).
- The middle, dual-layer is made of IceRock and Needle Mat 1000°F (538°C).
- The outer covering layer (cold face) is made of Grey Silicone 536°F (280°C).

ISOCOVERS ISO-WRAP:

ISOCOVERS ISO-WRAP Insulation Jackets are suitable for straight sections of pipe, which do not involve complex shapes, such as flanges, couplings, or the like.

Applications:

- Fittings
- Pipes
- Manifolds
- Flanges
- Strainers
- Valve & pipeline strainers
- Ball reducers
- Industrial HVAC equipment
- Reducing sockets
- Sockets parallel & taper
- Hex nipples
- Bronze screw valves
- Flange strainers
- Steam traps:
  - Thermo-dynamic steam traps
  - Float & thermostatic steam traps
  - Balanced pressure steam traps
  - Inverted bucket steam traps
  - Bimetallic steam traps

ISOCOVERS ISO-ELBOW:

ISOCOVERS ISO-ELBOW Insulation Jackets are suitable for bends in piping systems, including 45 and 90-degree pipe elbow fittings, or the like.

Applications:

- Elbows
- Male pipe elbows & female pipe elbows
- Bends without socket, threaded
- 45° pipe elbow
- 90° pipe elbow
- 45° street elbow
- 90° street elbow
- Elbows 45°, socket weld
- Elbows 90°, socket weld
- Elbows, NPT-threaded
- Elbows 45°, butt weld fittings
- Elbows 90°, butt weld fittings
- Bends 45°, butt weld fittings
- Bends 90°, butt weld fittings

ISOCOVERS ISO-VALVE:

ISOCOVERS ISO-VALVE Insulation Jackets are designed to fit closely with tight joints on complex shapes, such as valve fittings, strainers, T or Y joints, or the like.

Applications:

- Manual Valves:
  - Stopper-type closure — globe, needle
  - Vertical slide — gate
  - Rotary type — ball, plug, butterfly
  - Flexible body — diaphragm
- Check Valves:
  - Lift check
  - Swing check (single and double plate)
  - Tilting disc
  - Diaphragm
- Other:
  - Bonnet valves
  - Control valves
  - Bronze screw valves
  - T-Fitting
  - Knife valves
  - Y strainers
  - Industrial HVAC equipment
  - Fittings
  - Pumps
  - Sight glasses
  - Manifolds
  - Filters & regulators
  - Desuperheaters

ISOCOVERS ISO-HUB:

ISOCOVERS ISO-HUB Insulation Jackets are suitable for end fittings in piping systems, including steam traps, end caps, blind flanges, or the like.

Applications:

- End caps, butt weld fittings
- Caps, socket weld
- End caps, NPT-threaded
- Screwed ends, threaded
- Float & thermostatic steam traps
- Blind flanges

SIMPLICITY BREEDS USABILITY

USER-FOCUSED DESIGN

HOW TO MEASURE FOR ISOCOVERS ISO-WRAP:

Selecting the right size ISOCOVERS ISO-WRAP for your machine is a lot easier than you might think. All you need is a tape measure, and you are ready to go!

Click Here For Video Tutorial: How to Measure ISOCOVERS ISO-WRAP

1. Measure for either the (1) CIRCUMFERENCE OR (2) DIAMETER:

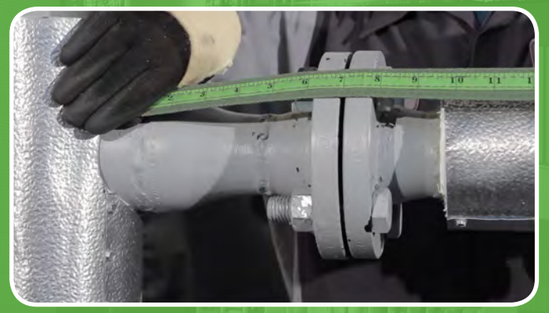
CIRCUMFERENCE

OR

DIAMETER

NOTE: It does not matter which method of measurement you decide to use, just remember that you only need to find your measurement using one of the two ways mentioned above.

2. Measure for the DESIRED WIDTH:



WIDTH

NOTE: After measuring either the circumference or diameter, you also need to measure for the desired width to determine the width of the application you want to insulate.

WARNING: When installing or measuring for ISO-WRAP, please follow all safety precautions and use proper and adequate protective safety aids such as: protective gloves and suitable protective clothing. Never use a metal tape for measuring purposes. Failure to do so may result in injury.

3. Find the right ISOCOVERS ISO-WRAP:

NOTE: Now that you have your measurements, you can use the graph below to help you find the appropriate ISOCOVERS ISO-WRAP part number. Diameter and circumference (length) measurements are listed in the table rows vertically and width measurements are listed in the table columns horizontally.

WIDTH

CIRCUMFERENCE	DIAMETER	6in (152mm)	12in (305mm)	18in (457mm)	24in (610mm)
0in - 6in (0mm-152mm)	0in-2in (0mm-60mm)	IW 1206	IW 1212	IW 1218	IW 1224
6in-13in (152mm-330mm)	2in-4in (60mm-102mm)	IW 1806	IW 1812	IW 1818	IW 1824
13in-19in (330mm-483mm)	4in-6in (102mm-152mm)	IW 2406	IW 2412	IW 2418	IW 2424
19in-25in (483mm-635mm)	6in-8in (152mm-203mm)	IW 3006	IW 3012	IW 3018	IW 3024
25in-31in (635mm-787mm)	8in-10in (203mm-254mm)	IW 3606	IW 3612	IW 3618	IW 3624
31in-38in (787mm-965mm)	10in-12in (254mm-305mm)	IW 4206	IW 4212	IW 4218	IW 4224
38in-44in (965mm-1118mm)	12in-14in (305mm-356mm)	IW 4806	IW 4812	IW 4818	IW 4824
44in-53in (1118mm-1346mm)	14in-17in (356mm-432mm)	IW 6006	IW 6012	IW 6018	IW 6024

FOR EXAMPLE:

The **CIRCUMFERENCE** (length) is 20in and the desired width is 12in = **IW 3012.**

OR

The **DIAMETER** (length) is 6in and the desired width is 12in = **IW 3012.**

HOW TO MEASURE FOR ISOCOVERS ISO-ELBOW:

Selecting the right size ISOCOVERS ISO-ELBOW for your machine is a lot easier than you might think. All you need is a tape measure, and you are ready to go!

Click Here For Video Tutorial: How to Measure ISOCOVERS ISO-ELBOW

1. Measure for either the (1) CIRCUMFERENCE OR (2) DIAMETER:

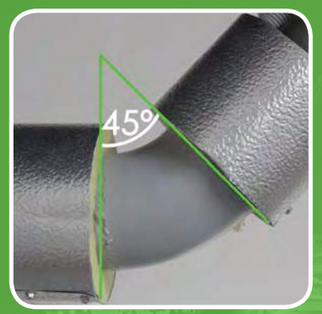
CIRCUMFERENCE

OR

DIAMETER

NOTE: It does not matter which method of measurement you decide to use, just remember that you only need to find your measurement using one of the two ways mentioned above.

2. Measure for the DEGREE ANGLE:



DEGREE ANGLE

NOTE: After measuring either the circumference or diameter, you also need to find the degree measure to determine the angle of the application you want to insulate.

WARNING: When installing or measuring for ISO-ELBOW, please follow all safety precautions and use proper and adequate protective safety aids such as: protective gloves and suitable protective clothing. Never use a metal tape for measuring purposes. Failure to do so may result in injury.

3. Find the right ISOCOVERS ISO-ELBOW:

NOTE: Now that you have your measurements, you can use the graph below to help you find the appropriate ISOCOVERS ISO-ELBOW part number. Diameter and circumference (length) measurements are listed in the table rows vertically and width measurements are listed in the table columns horizontally.

		DEGREE ANGLE	
CIRCUMFERENCE	DIAMETER	45° Angle	90° Angle
0in - 6in (0mm-152mm)	0in-2in (0mm-60mm)	IE 0245	IE 0290
6in-13in (152mm-330mm)	2in-4in (60mm-102mm)	IE 0445	IE 0490
13in-19in (330mm-483mm)	4in-6in (102mm-152mm)	IE 0645	IE 0690
19in-25in (483mm-635mm)	6in-8in (152mm-203mm)	IE 0845	IE 0890
25in-31in (635mm-787mm)	8in-10in (203mm-254mm)	IE 1045	IE 1090
31in-38in (787mm-965mm)	10in-12in (254mm-305mm)	IE 1245	IE 1290
38in-44in (965mm-1118mm)	12in-14in (305mm-356mm)	IE 1445	IE 1490
44in-50in (1118mm-1270mm)	14in-16in (356mm-406mm)	IE 1645	IE 1690
50in-57in (1270mm-1448mm)	16in-18in (406mm-457mm)	IE 1845	IE 1890

FOR EXAMPLE:

The **CIRCUMFERENCE** (length) is 12in and the degree angle is 90° = **IE 0490.**

OR

The **DIAMETER** (length) is 4in and the degree angle is 90° = **IE 0490.**

HOW TO MEASURE FOR ISOCOVERS ISO-VALVE:

Selecting the right size ISOCOVERS ISO-VALVE for your machine is a lot easier than you might think. All you need is a tape measure, and you are ready to go!

Click Here For Video Tutorial: How to Measure ISOCOVERS ISO-VALVE

1. Start at the top of the neck and measure for the CIRCUMFERENCE:

CIRCUMFERENCE

2. Measure for the DESIRED WIDTH:

WIDTH

NOTE: Measure at least 2 inches past the outer edges of rigid insulation on both sides.

WARNING: When installing or measuring for ISO-VALVE, please follow all safety precautions and use proper and adequate protective safety aids such as: protective gloves and suitable protective clothing. Never use a metal tape for measuring purposes. Failure to do so may result in injury.

3. Find the right ISOCOVERS ISO-VALVE:

NOTE: Now that you have your measurements, you can use the graph below to help you find the appropriate ISOCOVERS ISO-VALVE part number. Diameter and circumference (length) measurements are listed in the table rows vertically and width measurements are listed in the table columns horizontally.

CIRCUMFERENCE	WIDTH 6in (152mm)	12in (305mm)	18in (457mm)	24in (610mm)
0in - 7in (0mm-178mm)	IV 1206	IV 1212	IV 1218	IV 1224
7in-13in (178mm-330mm)	IV 1806	IV 1812	IV 1818	IV 1824
13in-19in (330mm-483mm)	IV 2406	IV 2412	IV 2418	IV 2424
19in-25in (483mm-635mm)	IV 3006	IV 3012	IV 3018	IV 3024
25in-31in (635mm-787mm)	IV 3606	IV 3612	IV 3618	IV 3624
31in-37in (787mm-940mm)	IV 4206	IV 4212	IV 4218	IV 4224
37in-42in (940mm-1067mm)	IV 4806	IV 4812	IV 4818	IV 4824
42in-49in (1067mm-1245mm)	IV 5406	IV 5412	IV 5418	IV 5424
49in-55in (1245mm-1397mm)	IV 6006	IV 6012	IV 6018	IV 6024

FOR EXAMPLE: The **CIRCUMFERENCE** (length) is 30in and the desired width is 17in= **IV 3618.**

HOW TO MEASURE FOR ISOCOVERS ISO-HUB:

Selecting the right size ISOCOVERS ISO-HUB for your machine is a lot easier than you might think. All you need is a tape measure, and you are ready to go!

Click Here For Video Tutorial: How to Measure ISOCOVERS ISO-HUB

1. Measure for either the (1) CIRCUMFERENCE OR (2) DIAMETER:

CIRCUMFERENCE

OR

DIAMETER

NOTE: It does not matter which method of measurement you decide to use, just remember that you only need to find your measurement using one of the two ways mentioned above.

2. Measure for the DESIRED WIDTH:

WIDTH

NOTE: After measuring either the circumference or diameter, you also need to measure for the desired width to determine the width of the application you want to insulate.

WARNING: When installing or measuring for ISO-HUB, please follow all safety precautions and use proper and adequate protective safety aids such as: protective gloves and suitable protective clothing. Never use a metal tape for measuring purposes. Failure to do so may result in injury.

3. Find the right ISOCOVERS ISO-HUB:

NOTE: Now that you have your measurements, you can use the graph below to help you find the appropriate ISOCOVERS ISO-HUB part number. Diameter and circumference (length) measurements are listed in the table rows vertically and width measurements are listed in the table columns horizontally.

		WIDTH	
CIRCUMFERENCE	DIAMETER	6in (152mm)	12in (305mm)
0in - 6in (0mm-152mm)	0in-2in (0mm-60mm)	IH 0206	IH 0212
6in-13in (152mm-330mm)	2in-4in (60mm-102mm)	IH 0406	IH 0412
13in-19in (330mm-483mm)	4in-6in (102mm-152mm)	IH 0606	IH 0612
19in-25in (483mm-635mm)	6in-8in (152mm-203mm)	IH 0806	IH 0812
25in-31in (635mm-787mm)	8in-10in (203mm-254mm)	IH 1006	IH 1012
31in-38in (787mm-965mm)	10in-12in (254mm-305mm)	IH 1206	IH 1212
38in-44in (965mm-1118mm)	12in-14in (305mm-356mm)	IH 1406	IH 1412
44in-50in (1118mm-1270mm)	14in-16in (356mm-406mm)	IH 1606	IH 1612
50in-57in (1270mm-1448mm)	16in-18in (406mm-457mm)	IH 1806	IH 1812

FOR EXAMPLE:

The **CIRCUMFERENCE** (length) is 23in and the desired width is 9in = **IH 0812.**

OR

The **DIAMETER** (length) is 8in and the desired width is 9in = **IH 0812.**

HOW TO INSTALL ISOCOVERS INSULATION SYSTEMS:

Click Here For Video Tutorial: How to Install ISOCOVERS

TOOLS NEEDED:

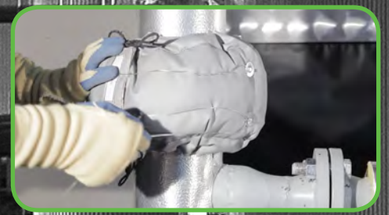
Wire Cutters, Lacing Wire, Pliers & Safety Gear.

1. Wrap the ISOCOVERS insulation jacket around the application you plan to insulate and pull the draw cords tight:

2. Tie the draw cords together to give it a secure fit:
   DO NOT OVER-TIGHTEN

3. Pull out a sufficient amount of SS wire and twist the end of it into a loop. Trim the SS wire at the base of the cylinder and attach it to an SS Lacing Hook on the ISOCOVERS insulation jacket:

4. Secure the ISOCOVERS insulation jacket by lacing the SS Wire back and forth between the SS Lacing Hooks:



5. Trim off any remaining SS Wire using the wire-cutting pliers once you have finished lacing it around the ISOCOVERS insulation jacket.

Once the SS Wire has been trimmed, you are ready to start insulating!

ISOCOVERS INSULATION SYSTEMS ACCESSORIES:

¾" SS SHARP POINT HOG RINGS

¾" SS SHARP POINT HOG RING is ideal for industrial applications where fastening or tie-downs are desired. It features sharp tips for piercing capabilities and is resistant to rust.

Part # CR

45-DEGREE HOG RING PLIERS

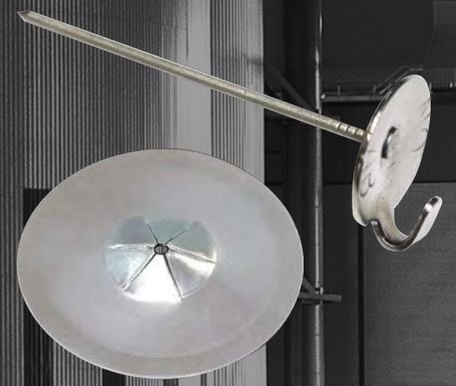
45-DEGREE HOG RING PLIERS are spring loaded to hold the ring in jaws during use. Its unique 45-degree tilt allows for added access to move in tight spaces. The cushion grip handle makes this product easy to use while keeping your hands comfortable.

Part # CRP

SS LACING ANCHORS & WASHERS

SS LACING ANCHORS & WASHERS are used in the manufacturing of removable insulation blankets. The anchor is pressed through the insulation material and locked in place with a lacing washer. Lacing wire is used to secure the blanket by lacing the wire through the hook.

Part # LHW



302/304 SS SAFETY LOCK WIRE

TYPE 302/304 SS SAFETY LOCK WIRE is used as a method of reinforcing fasteners and other parts for stability during use. Our .051" diameter safety wire is thick, reliable, and ideal for use with our safety wire pliers for enhanced installation.

Part # SSLW304

ISOCOVERS ISO-WRAP

ISOCOVERS ISO-HUB

IN THE UNITED STATES, INDUSTRIAL, COMMERCIAL, INSTITUIONAL AND MILITARY SPEN ABOUT $45 BILLION EACH YEAR TO MAKE STEAM

THE VERSITILITY OF ISOCOVERS LETS YOU INSULATE NEARLY ANY APPLICATION

ISOCOVERS ISO-VALVE

ISOCOVERS ISO-ELBOW

UniVest® Insulation Systems:
Specifically designed to meet heat and process requirements for high-temperature applications.

FirePro® Fire Protection Systems:
Specifically designed for passive fire protection and fireproof applications compliant with the UL 1709 testing standard.

FreezePro® Frost Protection Systems:
Specifically designed to safeguard applications that are vulnerable to freezing or subjected to harsh environmental conditions.