

# IMPEDANCE:

## THE HASSLE-FREE PIPE HEATING SOLUTION



John Brune - Director of Marketing - [jbrune@indeeco.com](mailto:jbrune@indeeco.com)

Mark Cornwell - Senior Application Engineer - [mcornwell@indeeco.com](mailto:mcornwell@indeeco.com)

**REFCOMM**  
GALVESTON  
APRIL 29 - MAY 3 2019

The background of the slide is a photograph of an industrial facility, likely a refinery or chemical plant, featuring tall distillation columns and complex piping. The entire image is overlaid with a semi-transparent orange filter. The text is centered on a white rectangular area in the middle of the slide.

# HASSLE-FREE PIPE HEATING SOLUTION.

## OK, HOW?

NO EXTERNAL FLUIDS

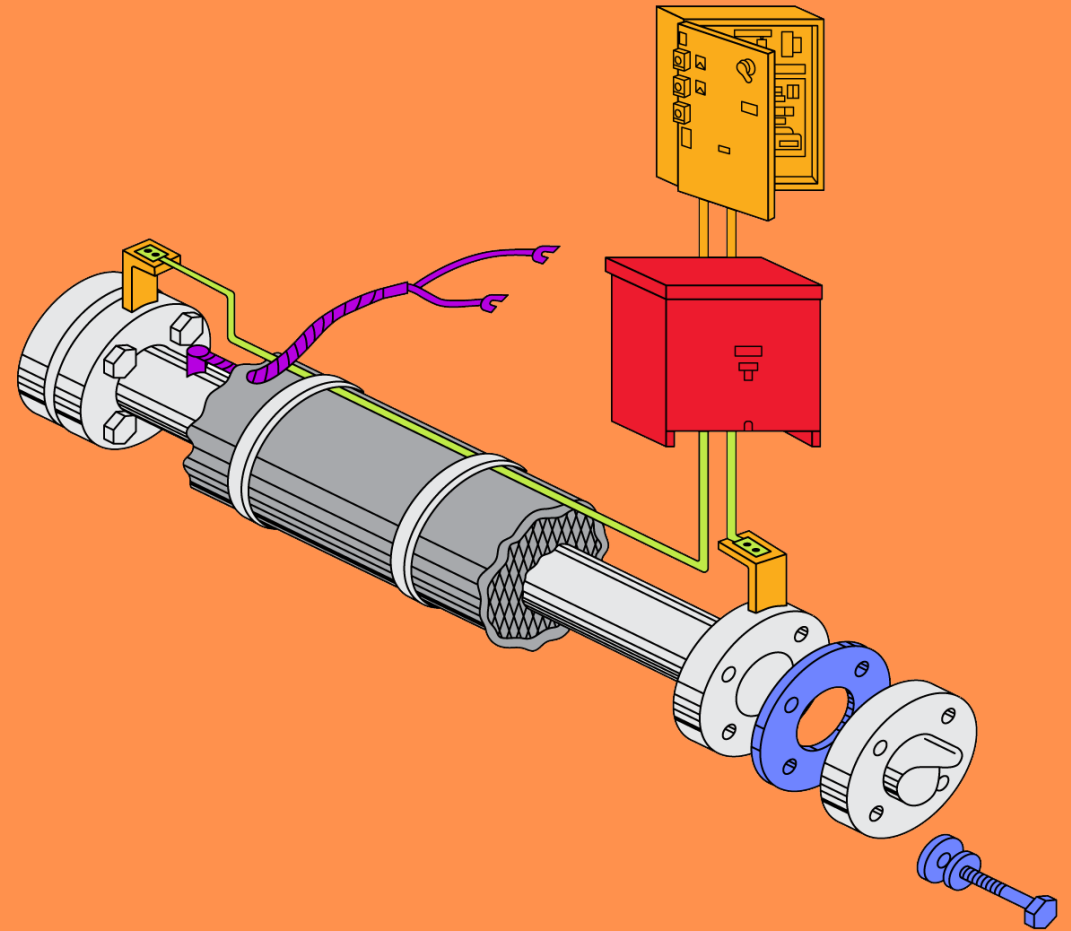
NO LEAKY JACKETS

NO HOT SPOTS

NO ROUTINE MAINTENANCE

# IMPEDANCE HEATING

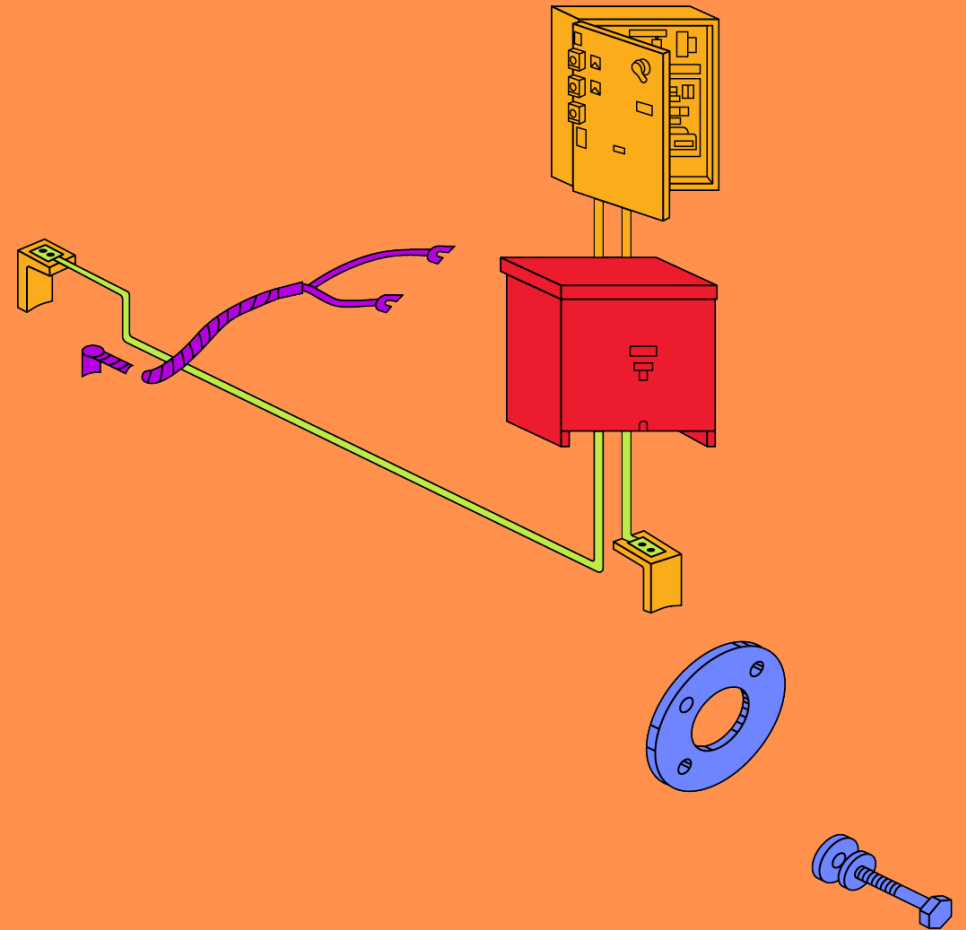
**THE PIPE BECOMES THE HEATER**



# WHAT MAKES UP A SYSTEM

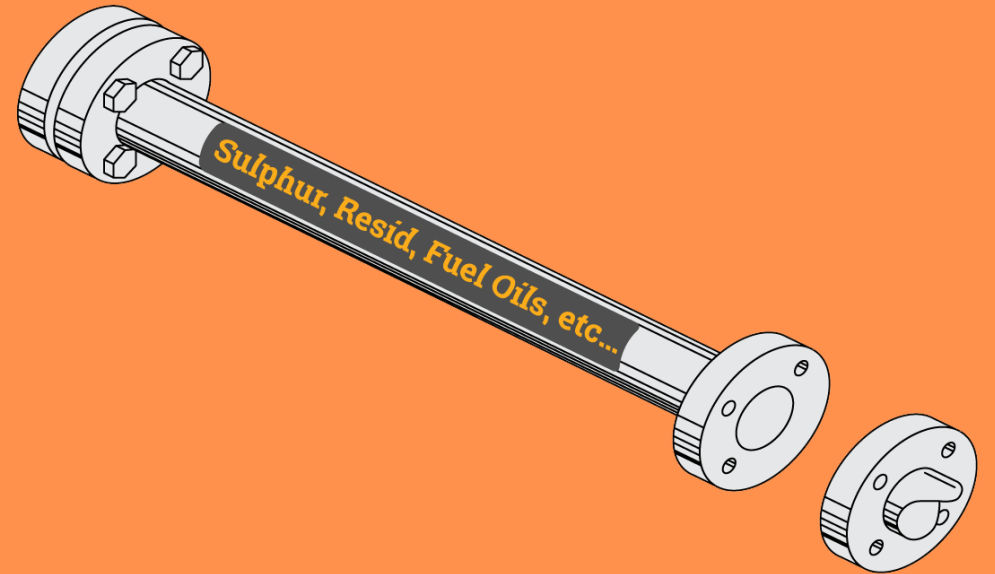
**TRANSFORMER  
CONTROL PANEL  
TERMINAL PLATES**

**ISOLATION KIT  
THEROCOUPLES  
WIRE**



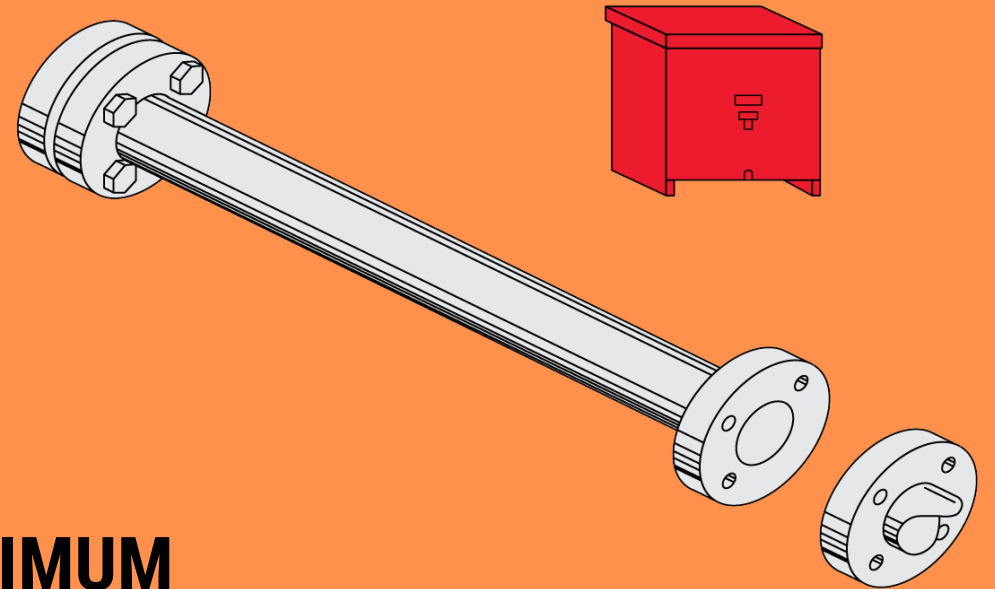
# EXAMPLE APPLICATION

**WHAT'S NEEDED TO GET STARTED**



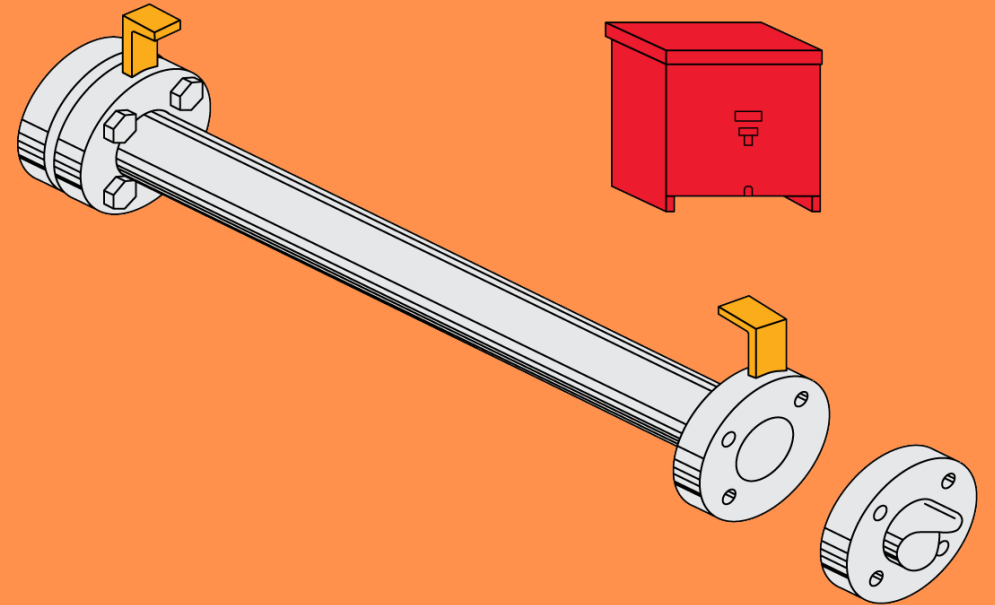
# TRANSFORMER

**CUSTOM DESIGNED STEP DOWN XFMR  
SECONDARY VOLTAGE OF 30VAC MAXIMUM**



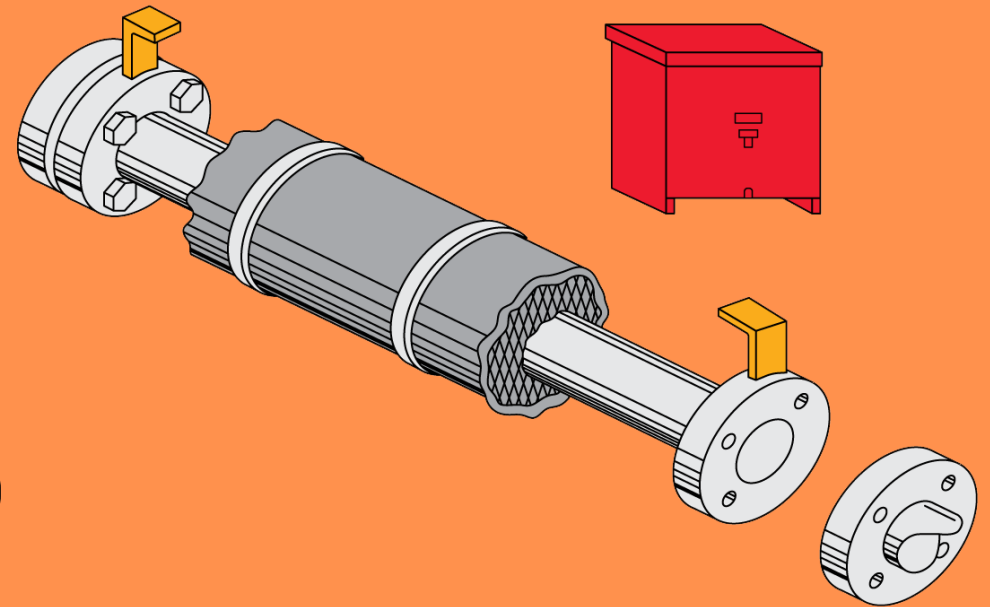
# TERMINAL PLATES

**CUSTOM DESIGNED PLATES**



# INSULATION

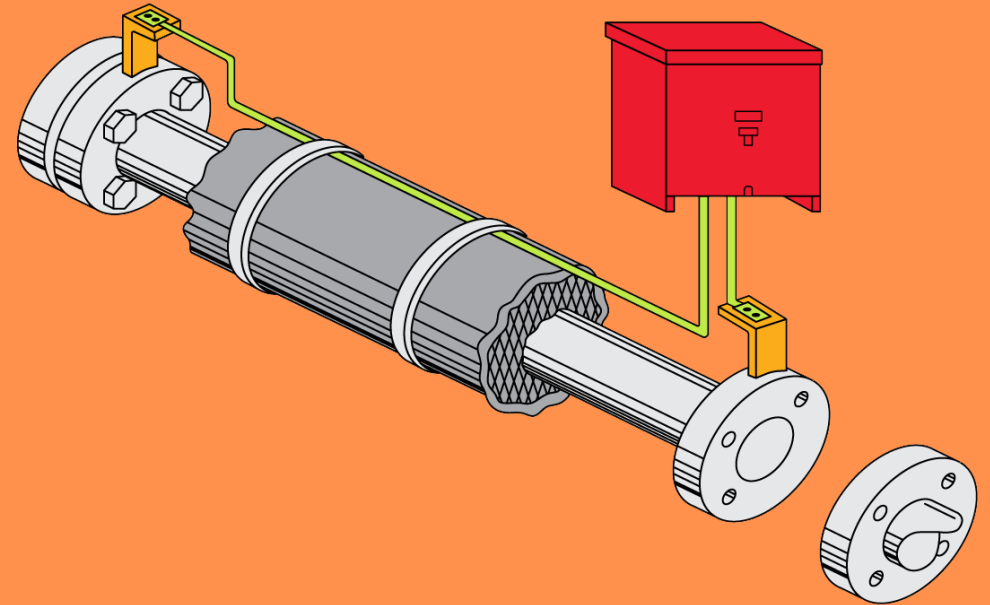
**CUSTOMER SUPPLIED AND INSTALLED**





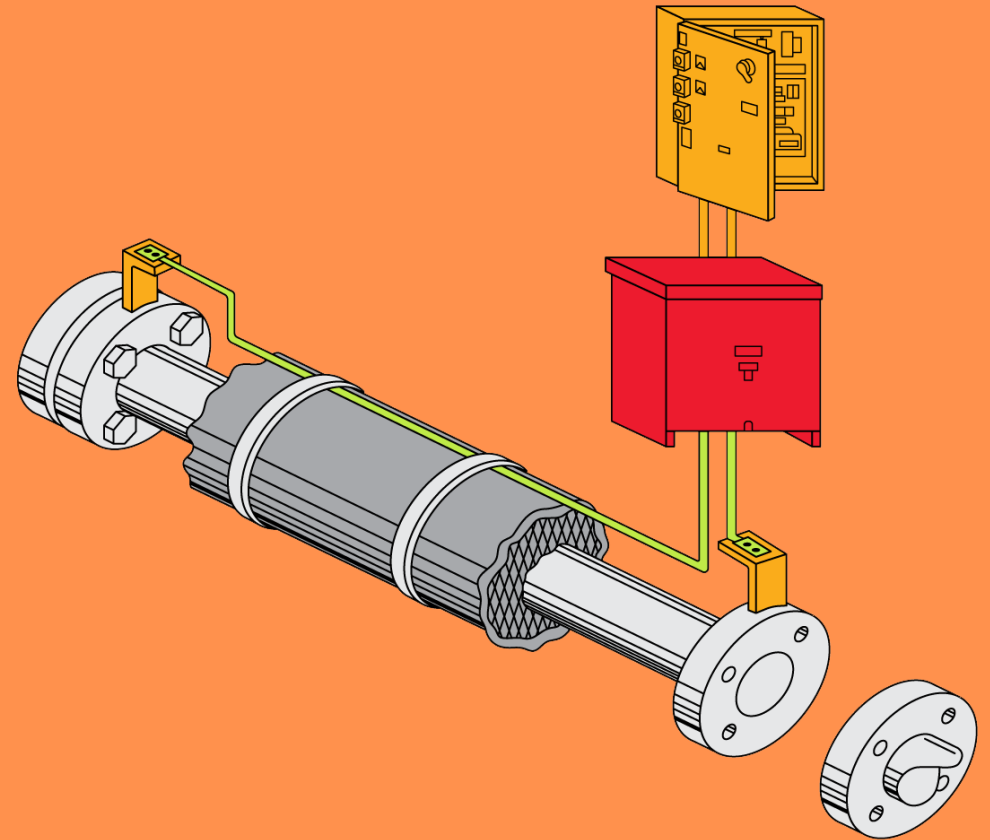
# WIRE CONNECTION

**WIRE SIZED BY INDEECO  
CAN BE SOURCED BY CUSTOMER**



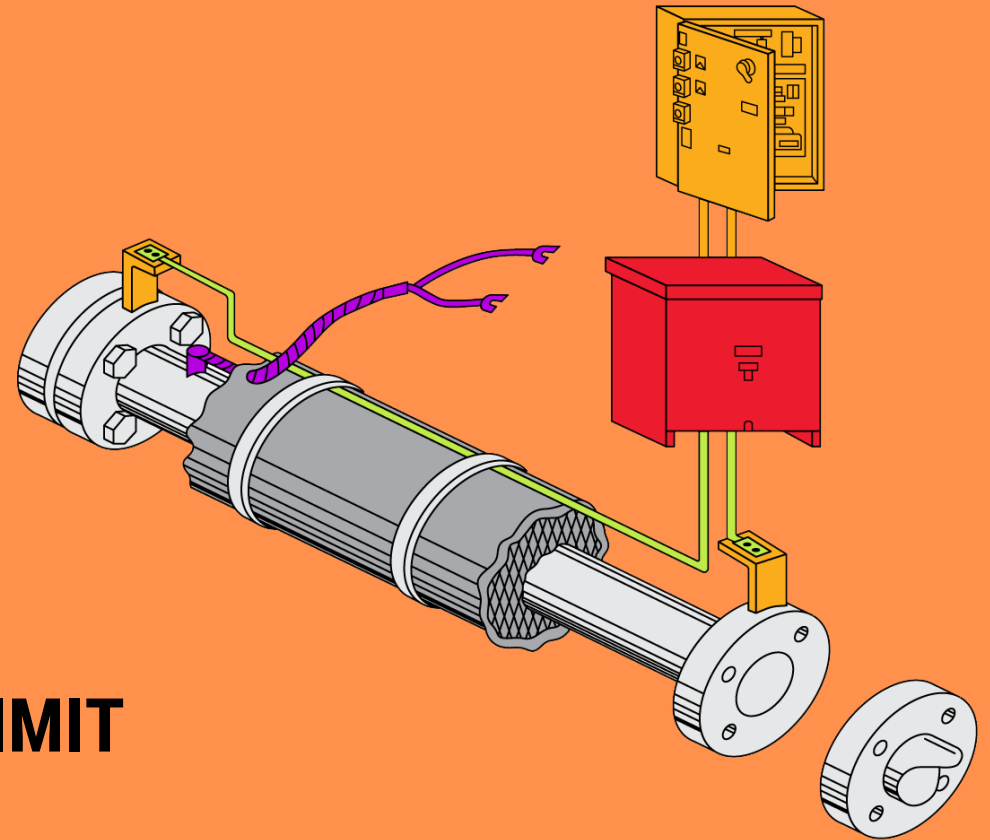
# CONTROL PANEL

**STANDARD ON/OFF OR SCR**



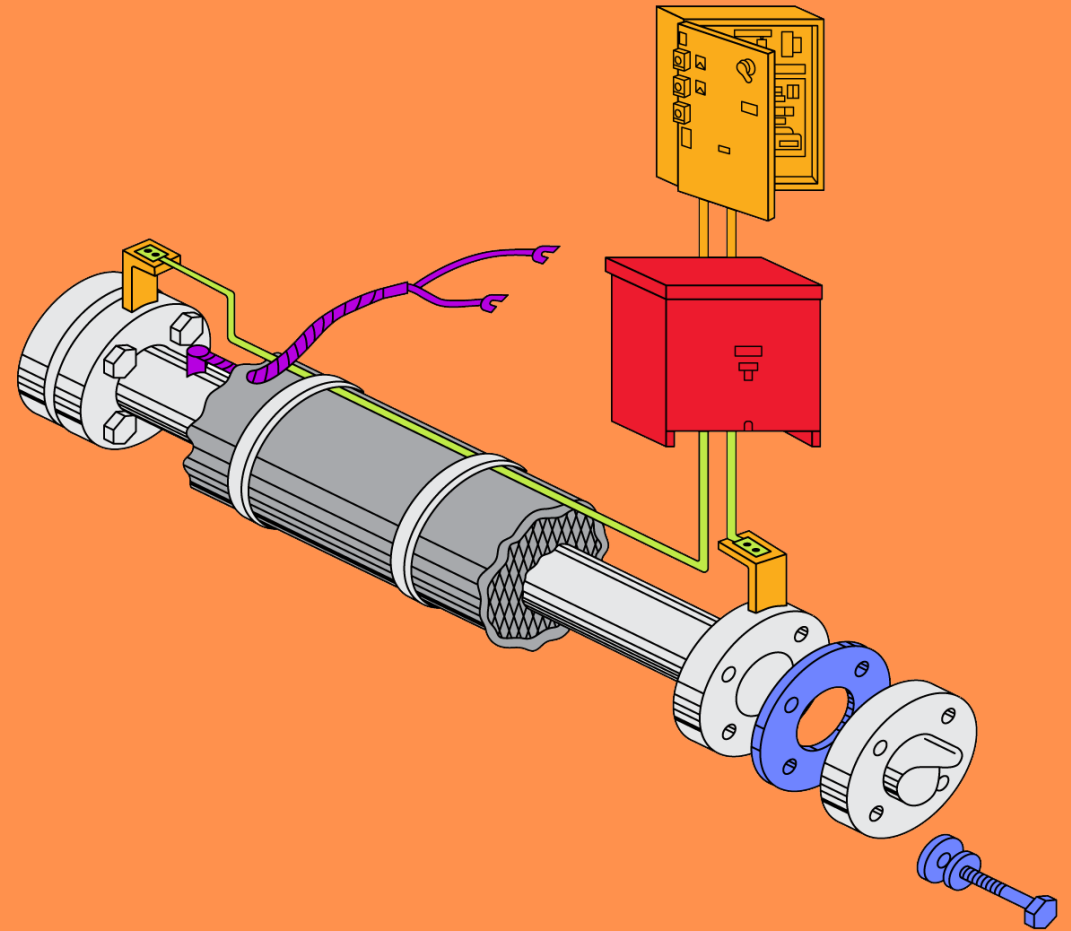
# T-COUPLES

**WELD PAD MOUNTED PROCESS & HI-LIMIT**



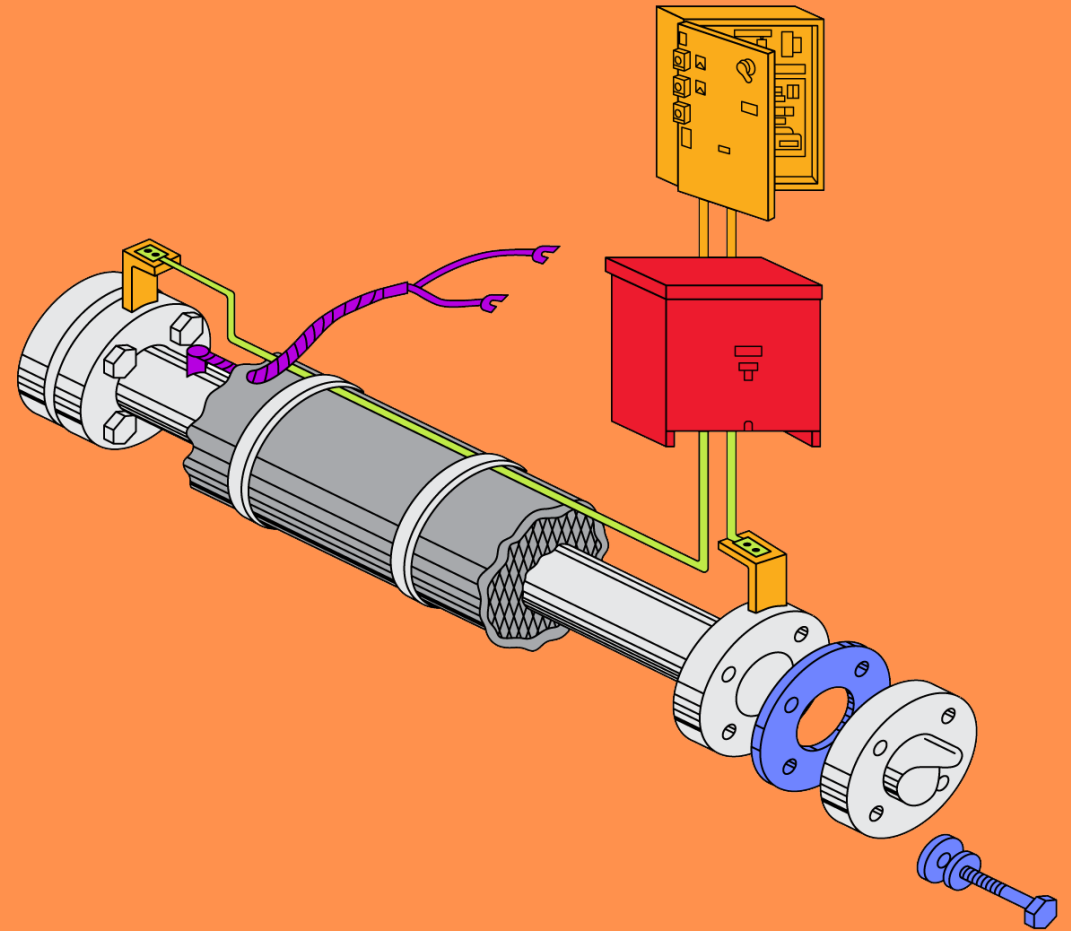
# ISOLATION KIT

**USED AT TEES AND CONNECTIONS  
BUT NOT ALWAYS NEEDED**



# START-UP

**ON SITE ASSISTANCE  
EXTENDED WARRANTY**



# NEXT STEPS

1

**CONNECT**  
Stop by our booth or  
visit us online.

2

**INDEECO  
DESIGNS A  
SOLUTION**  
After a complete  
understanding of what  
your goals are we'll go  
to work to design a  
system that meets your  
needs.

3

**SOLUTION  
REVIEW**  
After we've completed  
our design, we'll present  
our design to you to  
make sure the design  
meets your criteria. In  
addition, we'll address  
any questions you have.

4

**ORDER  
&  
INSTALL**  
Once the design is  
approved, you'll place  
the order and install the  
equipment.

5

**START-UP**  
Once equipment is in  
place, Indeeco can  
perform start-up and  
commissioning.





# GET IN TOUCH WITH US

## BOOTH LOCATION

64

## PHONE

314-644-4300 Ext 277

## EMAIL ADDRESS

[jbrune@indeeco.com](mailto:jbrune@indeeco.com)

**INDEECO**  **HEATING  
SOLUTIONS**