

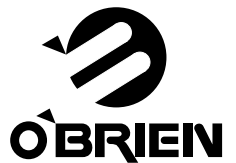
# VIPAK INSTRUCTIONS

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Mounting Kits  
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Steam and Electric Heaters  
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Installing Fittings Without Plates

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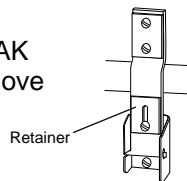


# Instructions

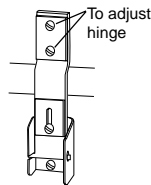
The VIPAK® is designed for maximum flexibility in mounting. This flexibility prevents specific instructions for every possible configuration. These instructions provide the general procedures to be followed.

## General Instructions

1. Use model number on tag to identify options supplied.
2. Read *all* instructions which apply prior to beginning the assembly of the unit.
3. Drill holes in enclosure with wood working tools.
4. Use silicone RTV to seal field openings if necessary. Available from O'Brien as option **SK**.
5. Level enclosure before tightening set screws on enclosure mount.
6. Process lines must be supported independently of enclosure.
7. By repositioning the retainer, VIPAK hinges can be disengaged to remove the lid or door.



8. Hinges may also be adjusted by loosening the two screws attaching the hinge arm to the lid or door, pushing the two halves together and retightening the mounting screws.

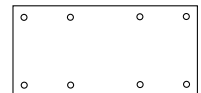


## Mounting Hardware Installation

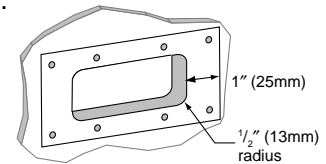
1. VIPAK mounting consists of interior instrument BRACKETS and exterior enclosure MOUNTS connected by metal to metal supports.
2. Mount instruments on bracket.
3. Position instrument and bracket in enclosure as required and mark holes in bottom of bracket on enclosure.
4. Check hole placement with exterior mount before drilling.
5. Drill  $1\frac{1}{16}$ " (18mm) holes as marked.
6. Assemble BRACKET and MOUNT from the outside as shown. DO NOT OMIT SPACERS.

## Installing Surface Plates

1. Locate as desired with a minimum of  $1\frac{1}{4}$ " (34mm) from all edges and parting plates on enclosure. Use surface plate as template to mark outline and screw holes.



2. Measure 1" (25mm) inward from outline for cutout. Use  $\frac{1}{2}$ " inside radius corners.

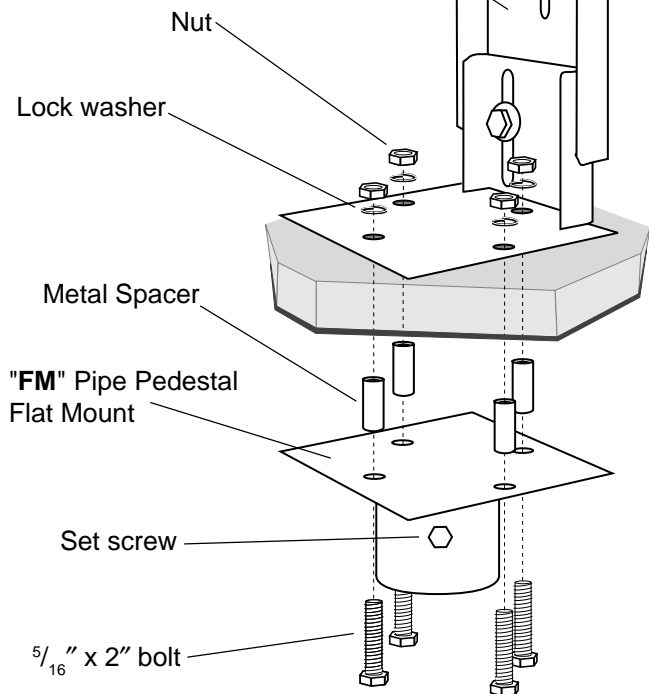


3. Make cut out with wood working saw and drill  $\frac{7}{32}$ " (6mm) screw holes.
4. Assemble surface plate from outside.
5. Place screws through the plate from the outside and thread into 1" wide SS pierced and tapped plate inside. Face pierce points into wall of enclosure.

# MK1

Adjustable portion  
may be turned 180°

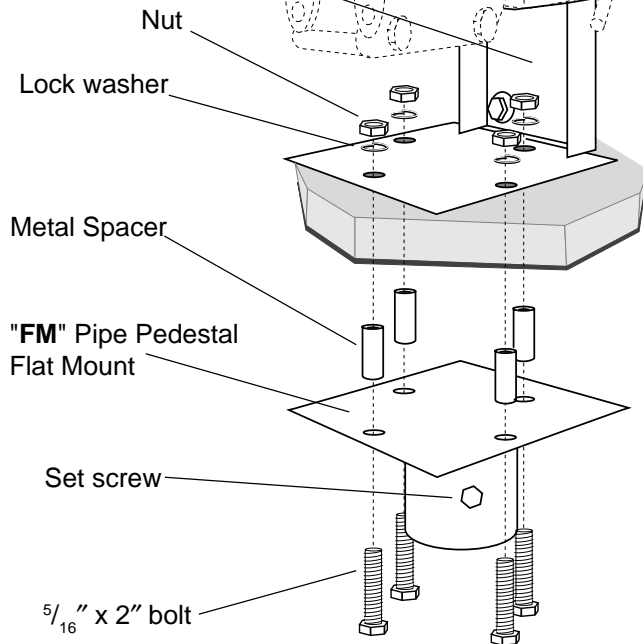
"UB" Universal Bracket  
Top may be adjusted up &  
down to position instrument in  
enclosure.



# MK2

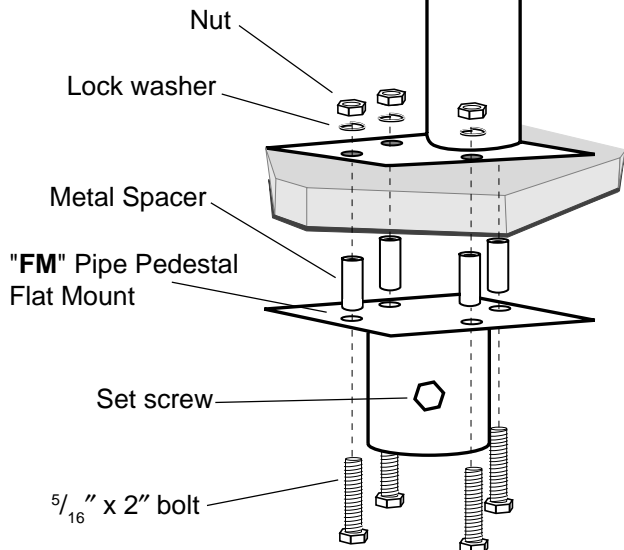
Adjustable portion  
may be turned 180°

"MSB" Manifold  
Support Bracket  
Top may be adjusted up &  
down to position instrument  
in enclosure.



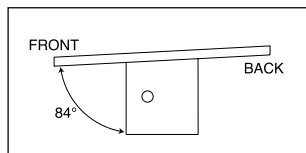
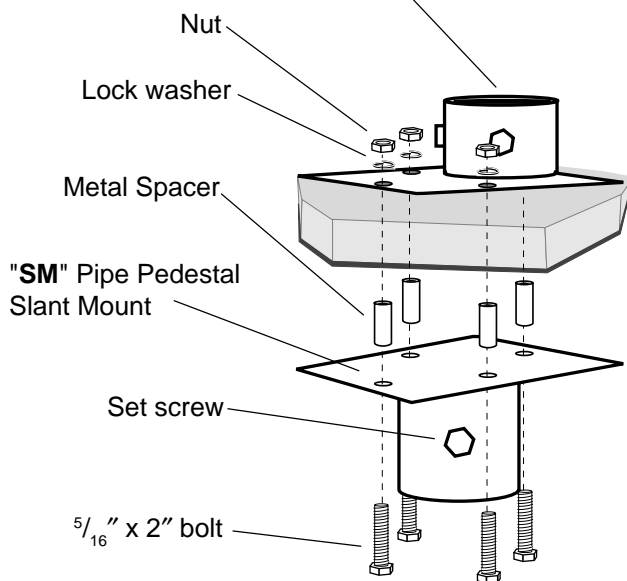
# MK3

"IPBOF12" Internal Pipe  
Bracket Offset

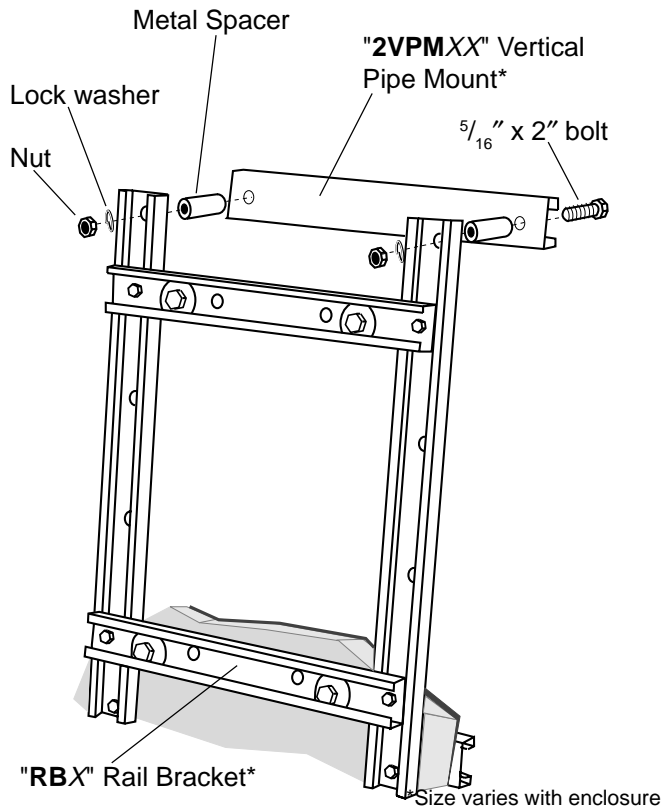


# MK4

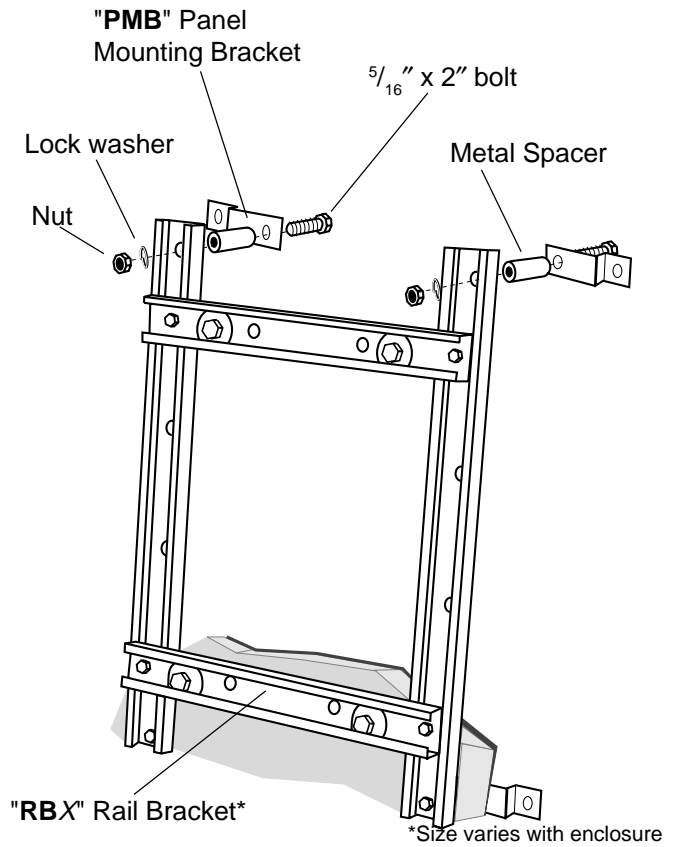
"SRPBO" Removable  
Pipe Bracket Offset



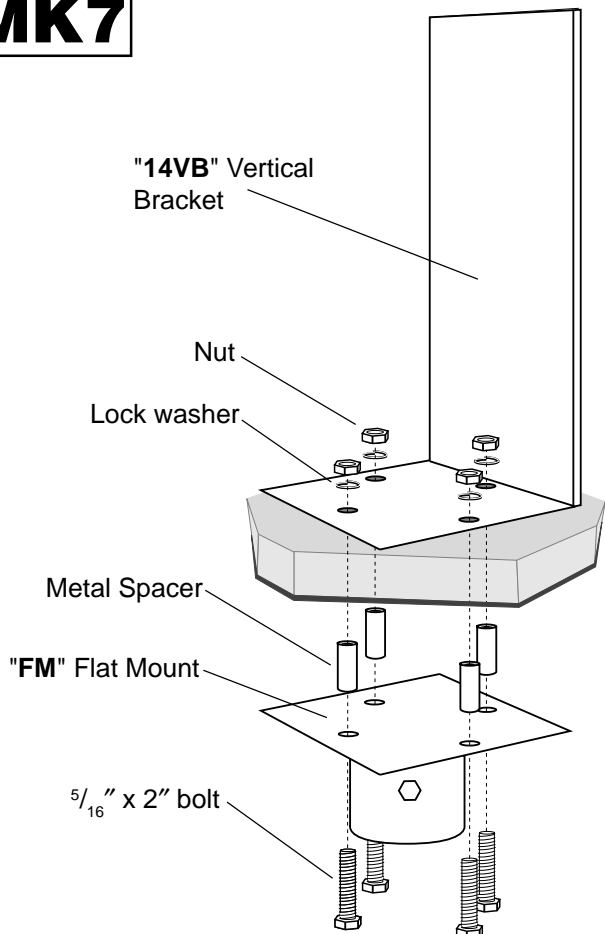
# MK5X



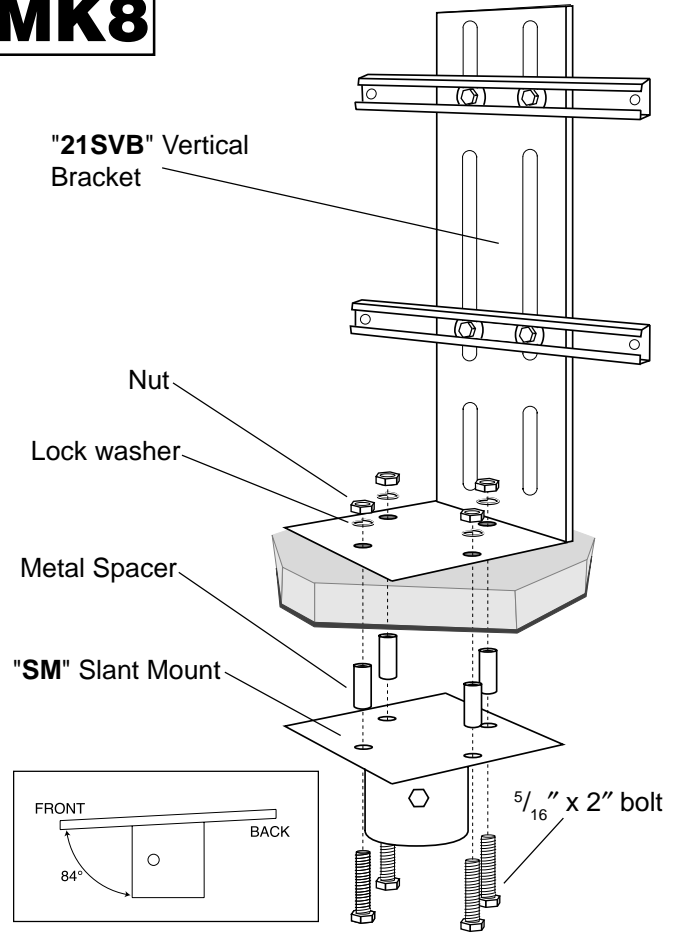
# MK6X



# MK7



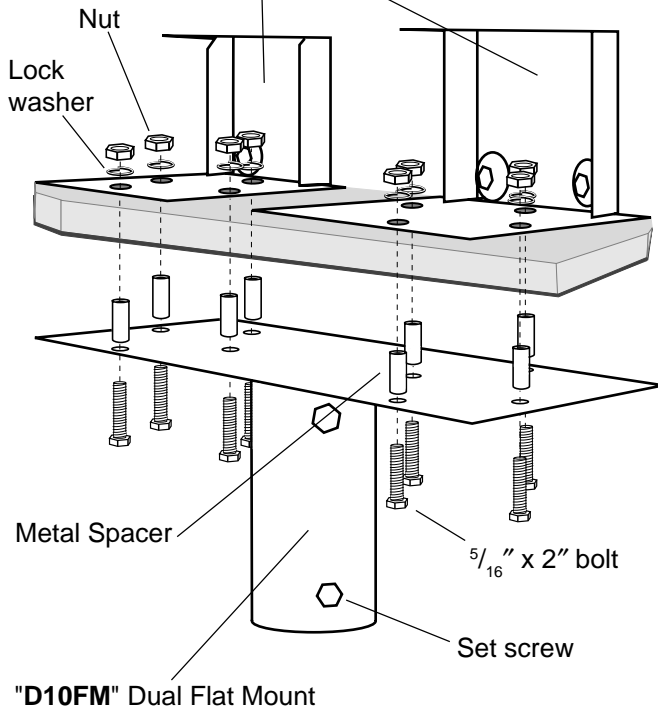
# MK8



# MK9

"MSB" Manifold Support Bracket

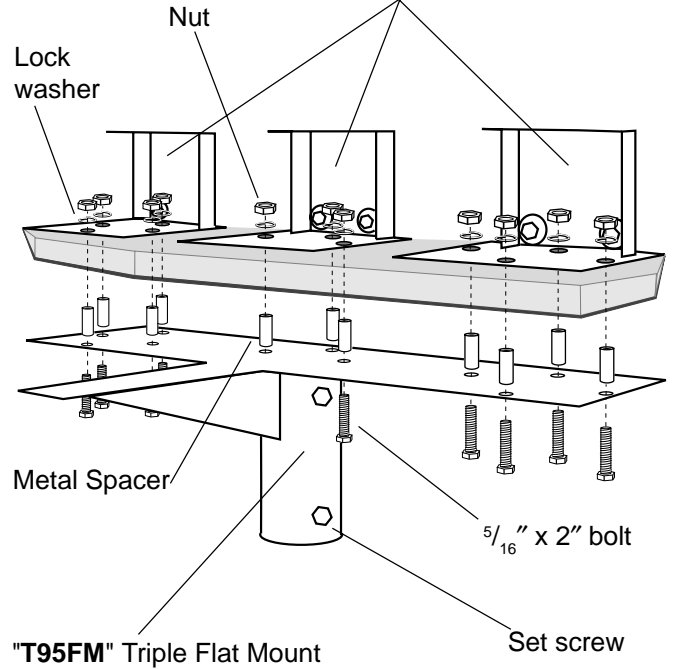
Brackets must be installed on 10" centers to align with mount



# MK10

Brackets must be installed on 9 1/2" centers to align with mount

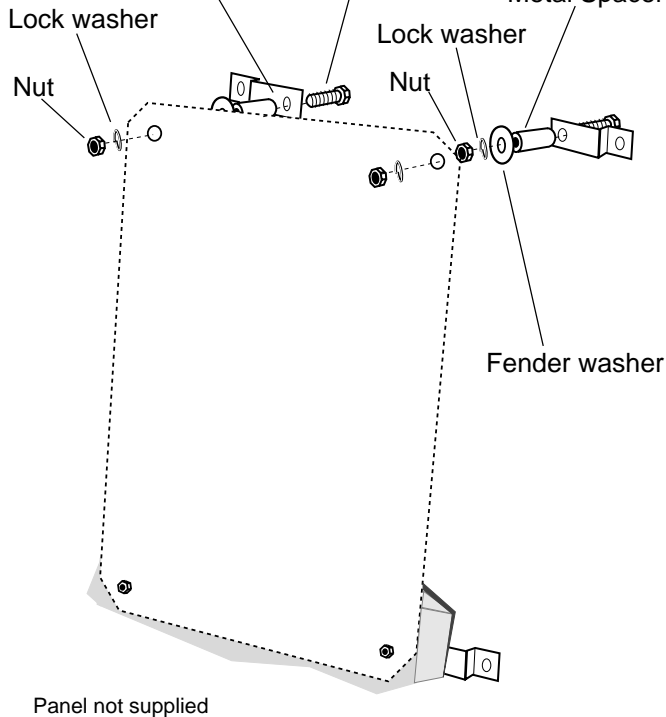
"MSB" Manifold Support Bracket



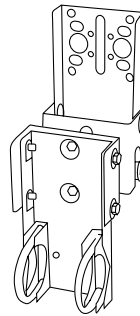
# PMB

"PMB" Panel Mounting Bracket

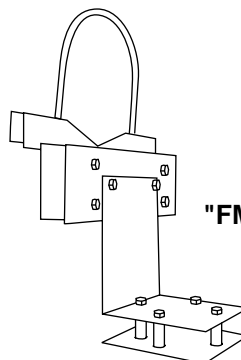
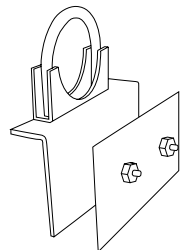
5/16" x 2 1/2" bolt



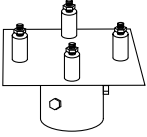
## Factory Installed Mounting Kits



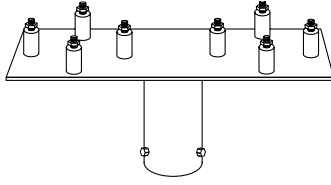
"OMB" On Line Mounting Bracket



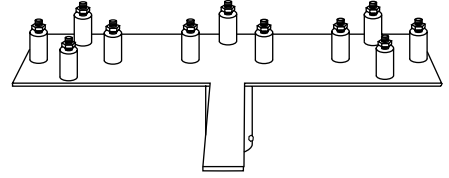
# Mounts



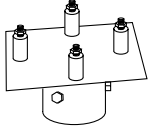
"FM" Flat Mount



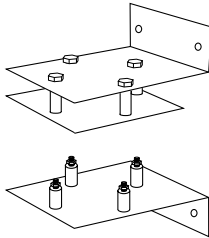
"D10FM" Dual Flat Mount



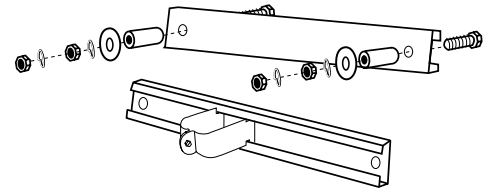
"T95FM" Triple Flat Mount



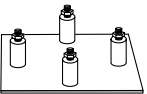
"SM" Slant Mount



"WM" Wall Mount

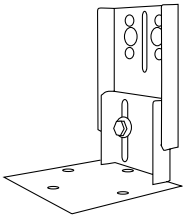


"2VPM" Vertical Pipe Mount

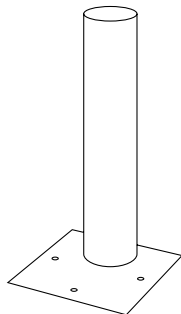


"FPM" Flat Plate Mount

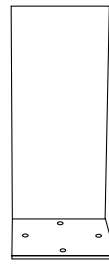
# Brackets



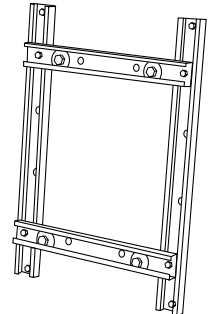
"UB" Universal Bracket



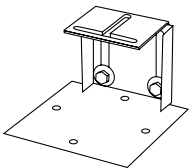
"IPBO" Internal Offset Pipe Bracket



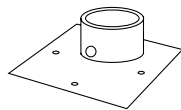
"14VB" Vertical Bracket



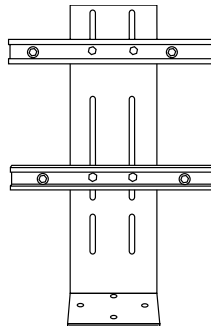
"RB" Rail Bracket



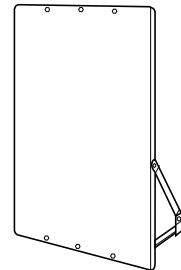
"MSB" Manifold Support Bracket



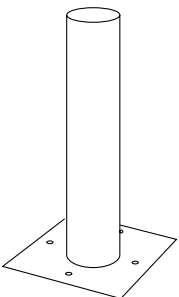
"RPBO" Removable Offset Pipe Socket



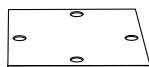
"21SVB" Vertical Bracket



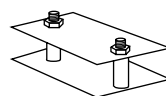
"22PB" Panel Bracket



"IPB" Internal Pipe Bracket



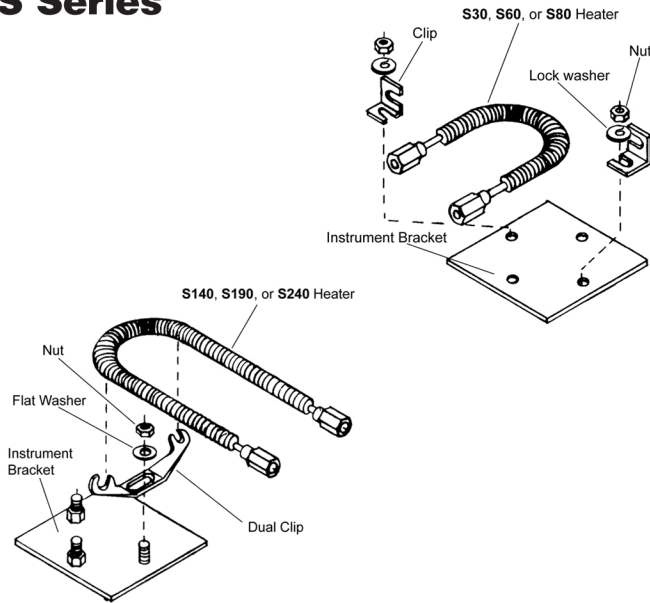
"FPB" Flat Plate Bracket



"HB" Heater Bracket

# Steam Heater

## S Series



## Steam Heaters

Maximum steam pressure 150 PSIG.

### CAUTION:

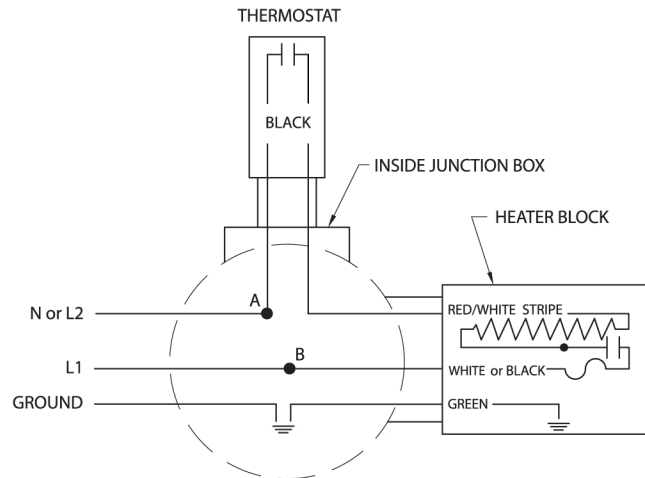
Steam heaters may cause overheating of the enclosure under certain conditions; consult catalog data for resulting temperatures in various enclosures.

1. Assemble mounting feet as illustrated.
2. Steam heaters are mounted to the base plate of the instrument mounting bracket inside the enclosure. Mount the dual clip under one of the mounting studs using the nut and washer provided with the mounting bracket.
3. Maintain a minimum of 1" (25mm) from any enclosure wall.
4. Connect supply and return with  $\frac{3}{8}$ " (10mm) MNPT compression fittings (not provided).

# Electric Heater Wiring Diagram

## Wiring

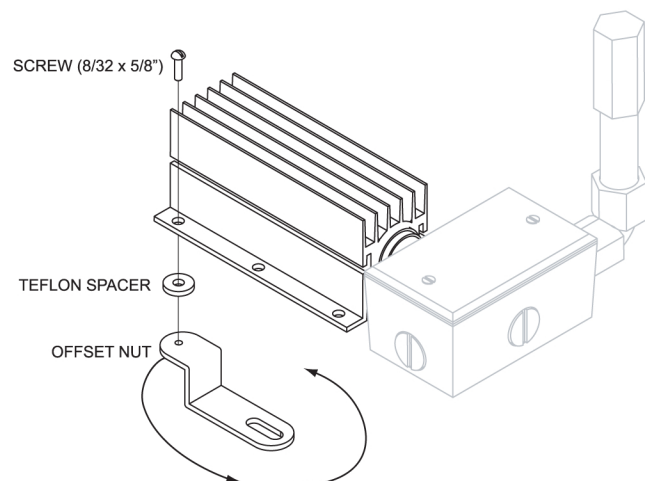
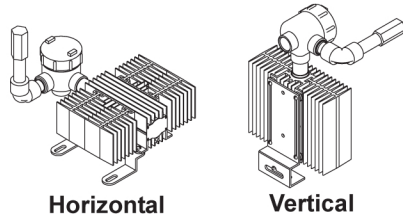
- For connecting line use "THHN" wire or equal for 90°C minimum and connectors rated for 105°C.
- Refer to heater's name plate for temperature setting, heater watts and supply voltage.



# T-Series Electric Heater Mounting

## Mounting

- Mounting feet can be used with any of the heater's base holes.
- The offset nut can be rotated and adjusted for increased mounting positions.
- KEEP FINS VERTICAL.

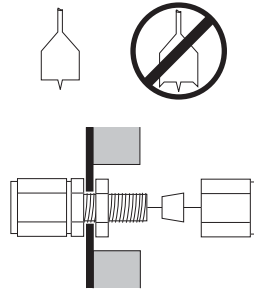


# Installing Fittings Without Plates

## Installing Bulkhead fittings on VIPAK

Metal surface plate must be used to support bulkhead fittings for process temperatures exceeding 150°F (65°C).

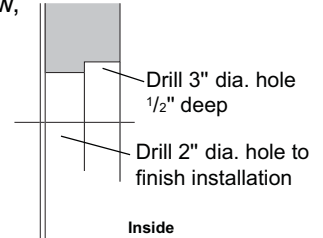
1. From inside of enclosure, drill a hole using a wood working spade bit large enough for the socket required to tighten the jam nut on the bulkhead fitting. **DO NOT USE A SPADE BIT WITH OUTSIDE SPURS!**



2. Stop the hole at the inside surface of the ABS shell.
3. Drill the mounting hole for the fitting and install it as usual.

## Installing ES4 fittings on VIPAK

1. With a 3" diameter hole saw, drill a hole from the inside of the box about 1/2" deep.
2. With a 2" diameter hole saw, finish the mounting hole through the wall of the enclosure.
3. Install fitting with mounting ring seated in the recess created by the 3" diameter hole.



## Installing ES4S / ES5 fittings on VIPAK

1. With a 2<sup>3</sup>/<sub>8</sub>" (ES4S) or 3<sup>3</sup>/<sub>8</sub>" (ES5) diameter hole saw, drill hole from the inside of the box.
2. Discard 'O' ring if supplied and install fitting.

Specifications subject to change without notice.



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