# Thrush
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**Tubesheet and Bundle
Measuring Guide**
**Worksheet**

## Heat Exchanger ID

Manufacturer _____     Model # _____     ASME Code # _____

### Heat Exchanger with Tubesheet <u>Inside</u> the Bolt Circle

1. Circumference of Flange _____

2. Circumference divided by Pi equals Shell Flange Diameter

    _____  ÷  3.14  =  _____

3. Depth from Shell Flange O.D. to Tubesheet O.D.

    _____    _____    _____    _____
    (3 o'clock)   (6 o'clock)   (9 o'clock)   (12 o'clock)

    Average Depth          _____ X 2  =  _____

4. Flange Diameter  -  Result of Step 3  =  Tubesheet Diameter

    _____  -  _____  =  _____

### Heat Exchanger with Full Diameter Tubesheet with a Drilled Bolt Circle

1. Circumference of Flange _____

2. Circumference divided by Pi equals Shell Flange Diameter

    _____  ÷  3.14  =  _____

3. Depth of Bolts from Flange

    _____    _____    _____    _____
    (3 o'clock)   (6 o'clock)   (9 o'clock)   (12 o'clock)

    Average Bolt Depth          _____ X 2  =  _____

4. Diameter of Bolts  -  Result of Step 3  =  <u>On Center</u> Diameter of Tubesheet Bolt Circle

    _____  -  _____  =  _____

List the Distance Between Center of Bolts and Bolt Quantity _____   _____

Bundle Length    _____                    Tube Passes    _____

Does Heat Exchanger have Steam on the Shell Side and Vertical pass Partitions?

☐ Yes     ☐ No

Comments _____
_____

Additional Information_____
_____
_____
_____
_____