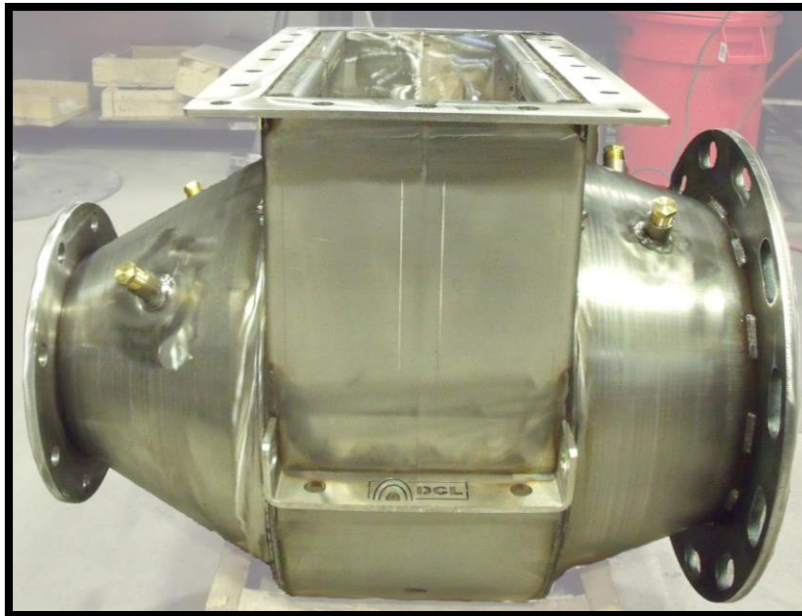


Case A – Horizontal Installation



STEP 1: (Horizontal Installation)

Insert catalyst element into empty housing.
If installing only one catalyst element, it is recommended to use the slot furthest from the inlet first.

WHY:

The pressure from the flow will push against the catalyst element, reinforcing the seal between the catalyst element and housing.

Flow Direction

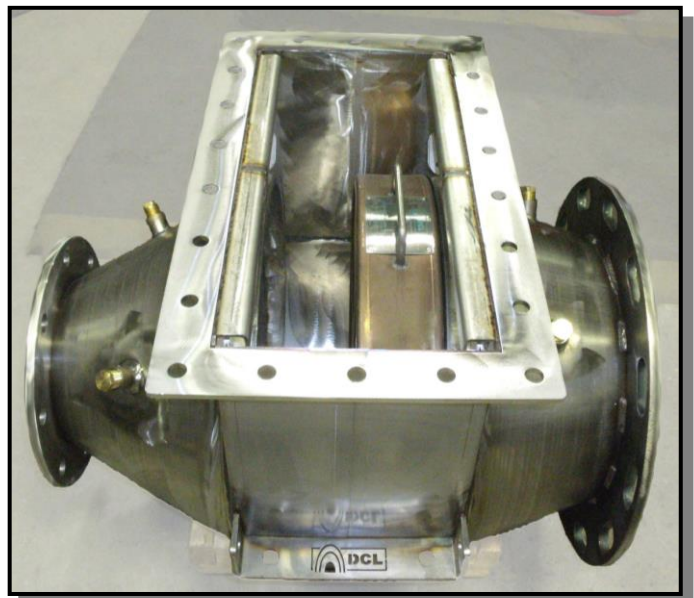


Fig. 1: Horizontal Installation

Horizontal Installation

STEP 2: (Horizontal Installation)

Insert both retaining bars into the slots located on the inside of the housing and secure them with the retaining pins as shown in Fig. 3.

For Applications Using Only One Catalyst Element:

Horizontal Installation: The retaining bars must be positioned such that the numeral “1” is located in the same slot as the catalyst element.

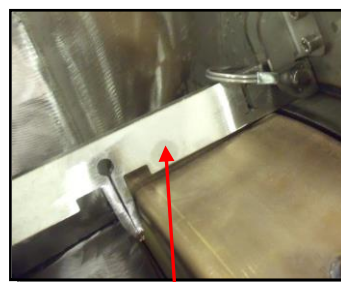
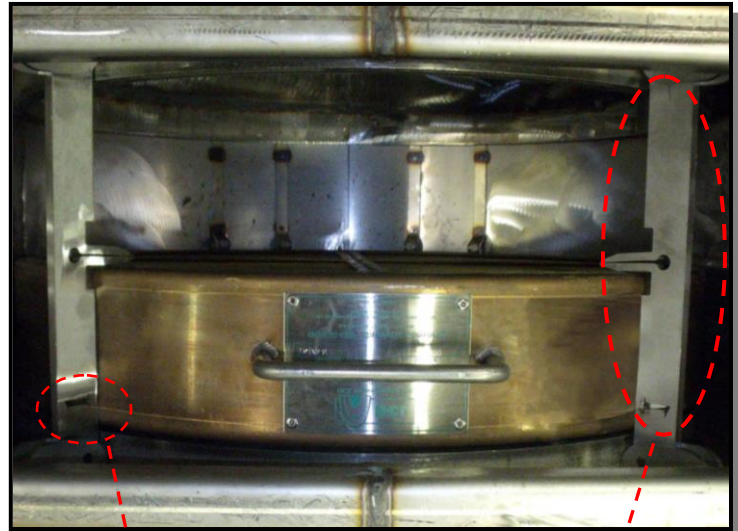
For Applications Using Two Catalyst Elements:

Horizontal Installation: Orient the retaining bars such that the numeral “1” (on both bars) are located above the catalyst closest to the outlet.

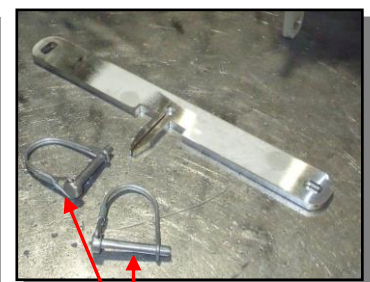
WHY:

The slotted ends on the retaining bar are oriented differently at each end. The slot located on the same side as the numeral “1” is vertical, thus preventing any lateral movement, while the slot on the opposite end of the retaining bar is horizontal to prevent any vertical movement of the element.

Fig. 3: Installing the Retaining Bars



Retaining Bar for Horizontal Installation



Retaining Pins

Case B – Vertical Installation



STEP 1: (Vertical Installation)

Insert catalyst element(s) into empty housing. When installing the catalyst element(s), the end of the spacer with the bend (holder spring) should always be on top of the catalyst as shown in fig. 2. **If installing only one catalyst element**, install the element in the lowest slot first (**regardless of flow direction**). Use a spool piece above the catalyst element to fill the empty slot.

WHY: The gravitational force will provide pressure on the catalyst element creating a tight seal between the catalyst element and housing. The spool piece will keep the elements from moving around vertically.

Holder Spring

Use a spool piece to fill this empty slot

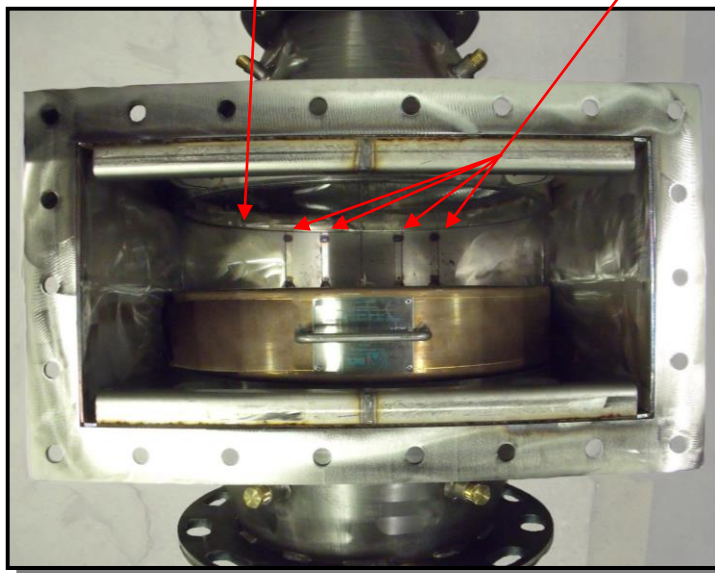


Fig. 2: Lowest Slot Vertical Installation

Vertical Installation

STEP 2: (Vertical Installation)

Insert both retaining bars into the slots located on the inside of the housing and secure them with the retaining pins as shown in Fig. 4.

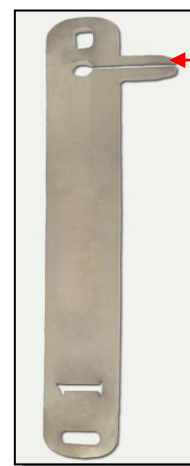
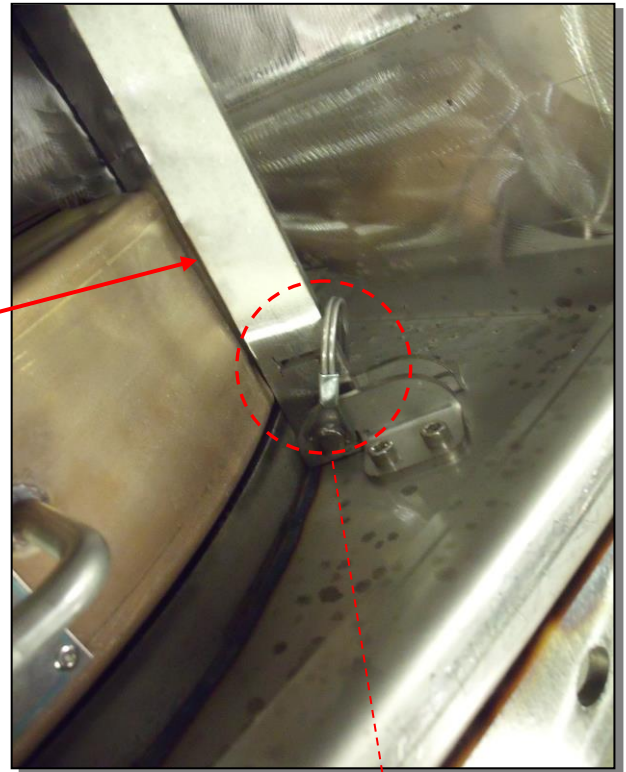
NOTE: The following procedure is for vertical installations using one or two Catalyst Element(s):

Vertical Installation: Orient the retaining bars such that the numeral “1” (on both bars) are located above the lower catalyst.

WHY:

The retaining bars for vertical installations are different than the retaining bars for horizontal installations. The peg on the retaining bar for vertical installations is located on the opposite side to the numeral “1” creating a tight fit for the catalyst element(s) thus preventing vertical movement.

Fig. 4: Installing the Retaining Bars



Retaining Bar
for Vertical
Installation

Retaining Pins

NOTE: The following procedures are for both horizontal and vertical installations

STEP 3: (Horizontal & Vertical Installation)

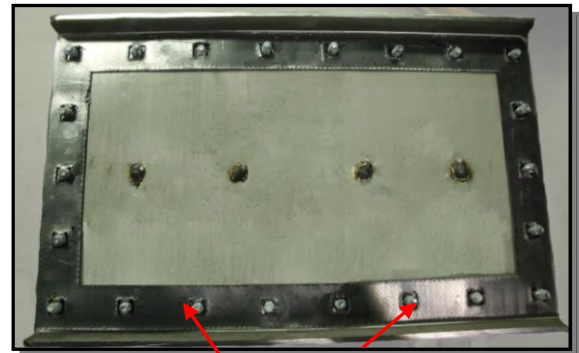
If necessary, replace the gasket by installing a new gasket on the lid.

Step 4: (Horizontal & Vertical Installation)

Install bolts so that the housing cover is pushed down and sealed to the housing. Use an anti-seizing compound on the bolt threads when installing. Nuts should be chased and bolts lubricated at each service.

To supply a sufficient positive seal, follow the torque sequence provided in Fig. 7. Tightening torque should be 40-50lb-ft.

Fig. 5: Installing the Gasket



Two Piece Gasket

Fig. 6: Setting the Lid



Fig. 7: Tightening Torque for Top Lid

