

# F-2000 OPTION "D" INSTALLATION INSTRUCTIONS 80000-374

## Step 1      Drill The Mounting Hole

- Select an area on the pipe. Be sure the surface area of the pipe is clean and smooth.
- F-2000 can accurately measure flow either direction provided the minimum inlet and outlet conditions are met.
- Drill a 1-1/8" diameter hole through the center of the pipe wall. On horizontal installations, drill the hole as close to the vertical (12 O'clock) position as possible. Do not exceed 45° from vertical. See figure 7. A hole saw kit is available from the factory, order **part number 20000-062**.
- Clean all burrs from inside and outside the hole. Use fine sandpaper (440 grit) if necessary.

## Step 2      Install The Saddle

- Insert the alignment tool through the top of the saddle. Slide the large O-ring over the bottom of the alignment tool and into the groove on the underside of the saddle.
- With the alignment tool and O-ring in place, position the saddle over the drilled hole. Insert the alignment tool into the hole seating the saddle. Be sure the O-ring is properly seated in the O-ring groove.
- Place the pipe clamps around the pipe and into the slots on the saddle. Tighten the clamps in an alternating method.

## Step 3      Check The Saddle Alignment

- Pull the alignment tool out of the saddle. If the tool is not easily removed, the alignment is not correct. Slightly loosen the clamps and insert the tool. The saddle must be mounted directly over the hole. Adjust the saddle alignment until the alignment tool slides freely in and out of the saddle.
- Be certain the O-ring is properly seated and visible in the groove around the hole.
- Tighten the clamps.

## Step 4      Install The F-2000 Sensor

- Be sure two O-rings are located on the sensor body (see figure 13). The O-rings have been lubricated at the factory with silicone oil.
- Be sure the sensor height spacer is positioned over the sensor body.
- Push the sensor assembly into the saddle with a twisting motion. The notch on the sensor body must fit into the slot on the saddle. Be sure the sensor is fully inserted into the saddle.
- **HAND TIGHTEN** the gray union nut. Do not tighten the nut with a tool.

