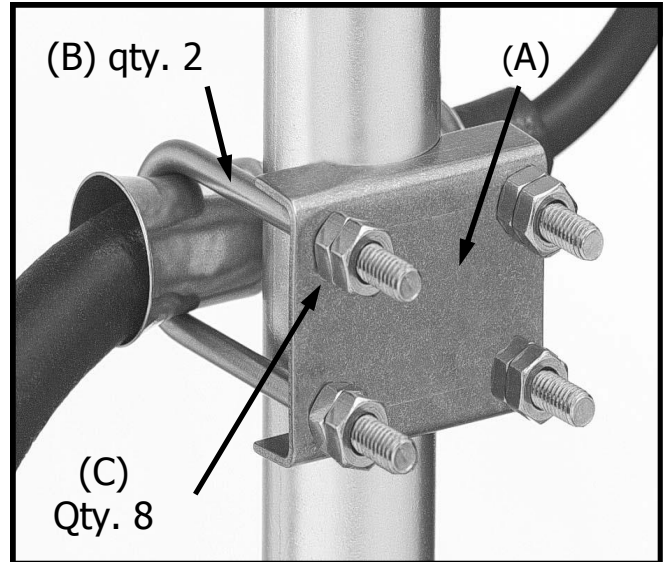




Series FS 90 Float Switch FS-PClamp Mounting Instructions

- 1) Fasten each float at its proper position along the pipe (1" pipe, 1.315" OD).
 - a) Mark each mounting position with tape. If the pipe will be resting on the bottom of the pit, measure the distance to each float from the bottom of the pipe. Each float may be laid across the pipe at the marked position.
 - b) Fasten the floats as pictured.
 - i) Holding the float "clamping tube" in position on top of the pipe at the tape; place the FS-PClamp's mounting plate against the pipe on the opposite side of the pipe.
 - ii) Place one u-bolt over the float clamping tube and insert it into the two holes of the mounting plate on one side of the pipe.
 - iii) Loosely fasten a nut to each end of the u-bolt.
 - iv) Place the second u-bolt in place on the other side of the float clamping tube and insert it into the two remaining holes of the mounting plate.
 - v) Loosely fasten a nut to each end of the u-bolt.
 - vi) Orient the float to ensure that it will not be obstructed in operation. Mounted the float with a 45° angle to the sump wall to allow unobstructed floatation for the float. If adjacent floats are located close to each other, offset them to point in opposite directions; at approximately 90° to each other.
 - vii) Apply all eight nuts for securing the float and tighten the assembly.
 - c) Tie wrap the float cables along the length of the pipe to prevent entanglement. (Some tie wraps are included with the float.)
- 2) Install the entire assembly to the wall of the pit.
- 3) Electrical connections: (the float switch has a single-pole/double throw switch)
 - a) White - switch common
 - b) Black - normally open (NO)
 - c) Red - normally closed (NC)
 - d) Green - ground (of float body)
 - Connect the green conductor of each float to ground as required by the NEC.
 - Refer to the "Notes" section below.

Rear view



The FS-PClamp (Pronounced FS-P-Clamp)

The **FS-PClamp** includes:

- Qty 1 - mounting plate (A)
- Qty 2 - U bolts (B)
- Qty 8 - 1/4" nuts (C)

(All components 316 Stainless Steel)

Note: As of September, 2004, the pipe mounting kit ships with 8 nuts (1/4") and no split washers.

Notes:

- 1** - Avoid installing the floats in any location with excessive turbulence or where the floats may rub against nearby hardware. Avoid installation near a pump intake where debris may wrap around the float to inhibit operation or increase abrasion of the float.
- 2** - Observe the functioning of the floats and control system through several pumping cycles to assure proper installation.
- 3** - If the float is applied in a 120 or 240 VAC circuit, it should be isolated with an earth leakage circuit breaker.
- 4** - In all two-wire applications, insulate the end of the third (unused) conductor since it will be "hot" when the float switch is in the "non active" position.
- 5** - Hazardous Applications: This float switch is classified as a simple device. It cannot contain stored energy. Therefore, it requires no certification for usage in hazardous locations when applied with an approved intrinsically safe barrier.