

Rail mounting hardware kit

Introduction

This instruction sheet describes the installation of the rail mounting kit (Cat. No. 6184900) for a 1½-in. NPT thread (45°) pipe.

Items supplied are shown in [Figure 1](#). Rail mounting dimensions are shown in [Figure 2 on page 2](#).

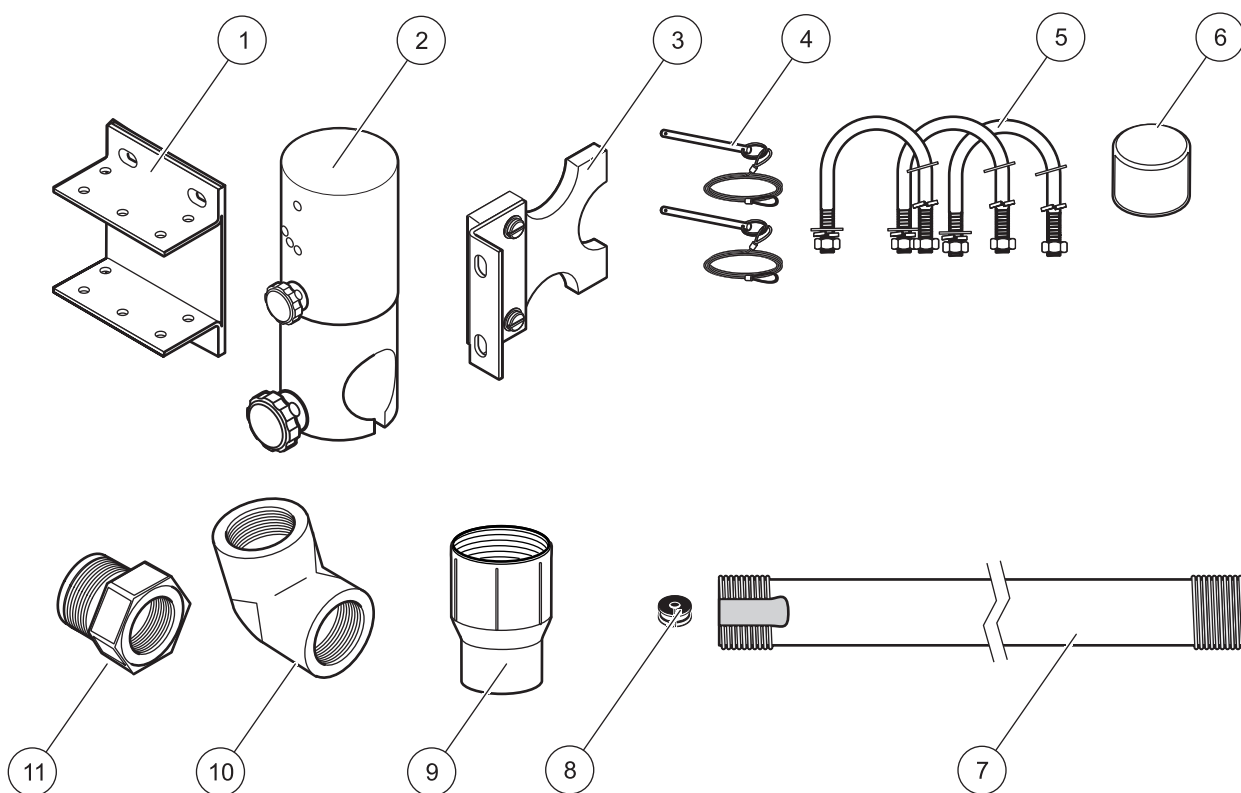


Figure 1 Items supplied with mounting hardware kit

1	Mounting bracket	7	Immersed pipe (refer to Figure 2 for dimensions)
2	Immersed pipe bracket (joint)	8	Plug
3	Immersed pipe support	9	Reducer, 1½-in. NPT inside thread/1-in. NPT inside thread
4	Locking pin (2x)	10	Elbow 45°, 2 x 1½-in. NPT inside thread
5	U-bolt (3x)	11	Reducer, 1½-in. NPT outside thread/1-in. NPT inside thread
6	Screw top		

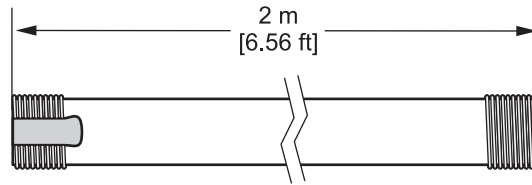


Figure 2 Dimensions

Selecting the installation location

Important Note: Refer to the probe user manual when installing the fmouting hardware. Note all safety instructions and hazards.

Note: When selecting the installation location, always ensure there is safe access to all parts of the system and that the sensor will never hit the tank wall.

During the selection of the installation location, pay attention to:

- The load bearing capacity and strength of the railings (lever forces due to flow and installation)
- The maximum cable and tubing lengths
- The flow conditions and the space required when taking the sensor out of the tank for cleaning

Note: Refer to the probe user manual for sensor cleaning instructions.

Installing the rail mount hardware

1. Find a suitable installation location and loosely fit the mounting bracket to the railings (Figure 3 on page 3).
2. Fit the immersed pipe bracket (joint) to the mounting bracket using the two locking pins (Figure 4 on page 3).
3. Fit the immersed pipe through the immersed pipe bracket and tighten the large knurled bolt (Figure 5 on page 4).

Note: Lock the joint using the small knurled bolt and lock the immersed pipe using the large knurled bolt.

4. Install the immersed pipe support (Figure 6 on page 4) and place the immersed pipe on the immersed pipe support.
 - Installing the sensor without a cleaning unit—Guide the sensor cable through the reducer, the elbow and the immersed pipe. Bolt all the pieces together (Figure 7 on page 5). When installing the sensor without a cleaning unit, fit the plug from the set of small parts above the sensor cable.
 - Installing the sensor with a cleaning unit—Guide the sensor cable and the air tubing through the elbow and the immersed pipe. Bolt all pieces together (Figure 8 on page 6).

Important Note: Ensure the sensor cable (air tubing) cannot be rubbed, crushed or cut.

5. Fit the screw top (Figure 9 or Figure 10 on page 7).

6. Pivot the immersed pipe over the edge of the tank and align all parts.

Note: Align the sensor to the process flow so that the flow arrives at the rear.

7. Tighten all bolts.

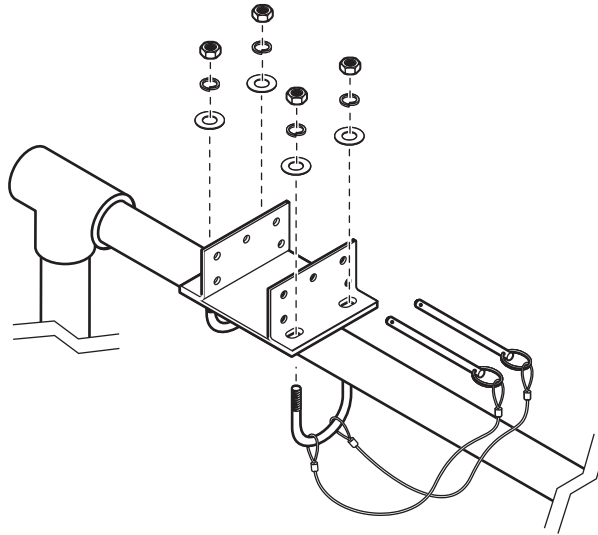


Figure 3 Installing the mounting bracket

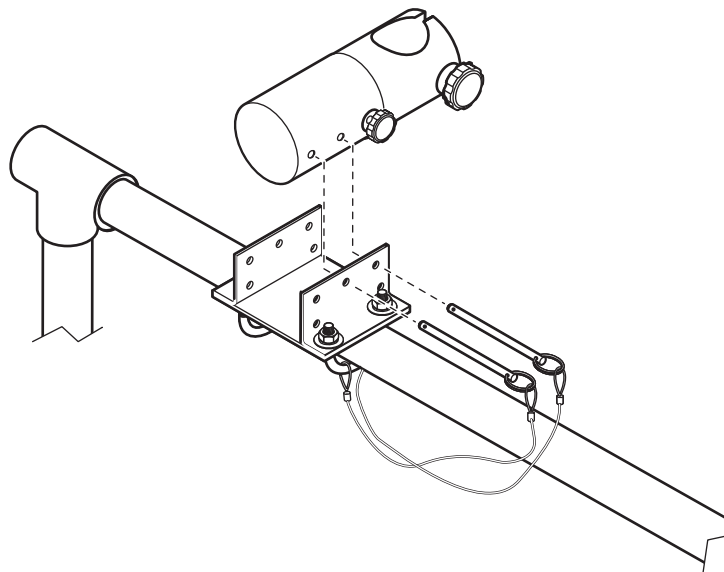


Figure 4 Installing the immersed pipe bracket

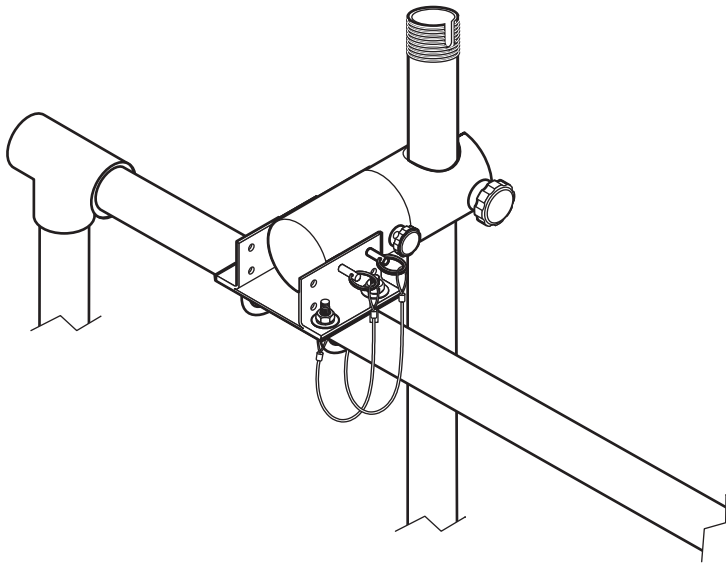


Figure 5 Installing the immersed pipe

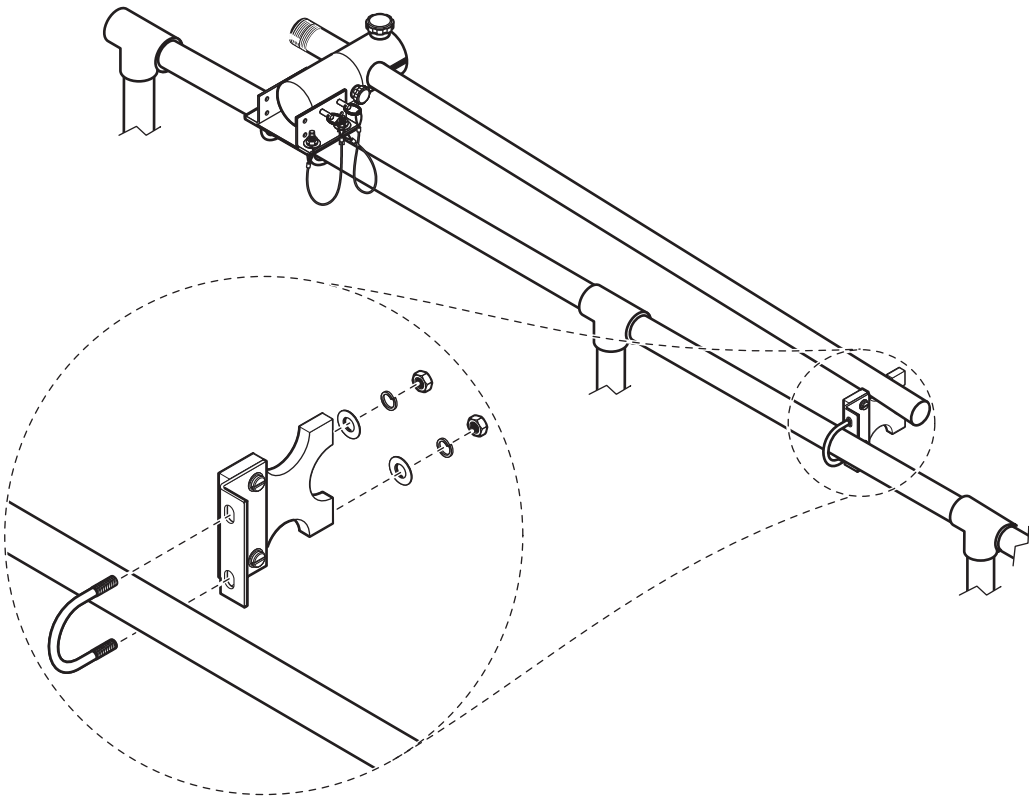


Figure 6 Installing the immersed pipe support

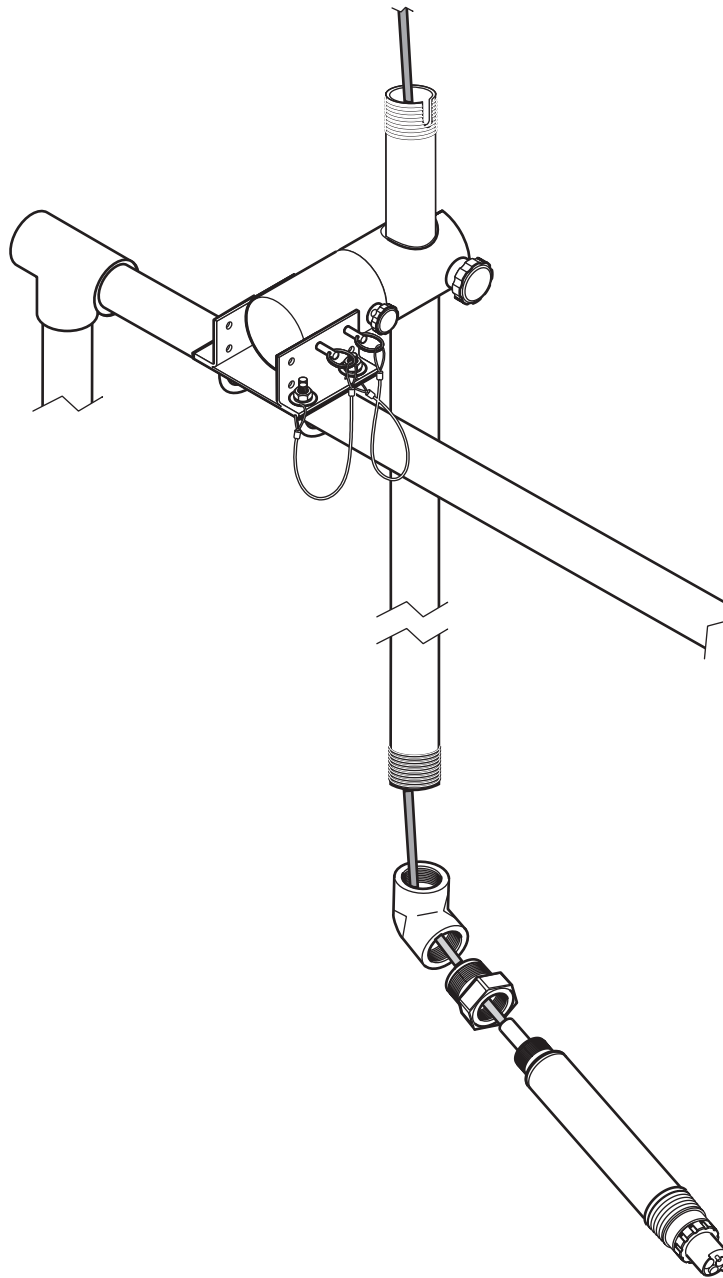


Figure 7 Installing the sensor

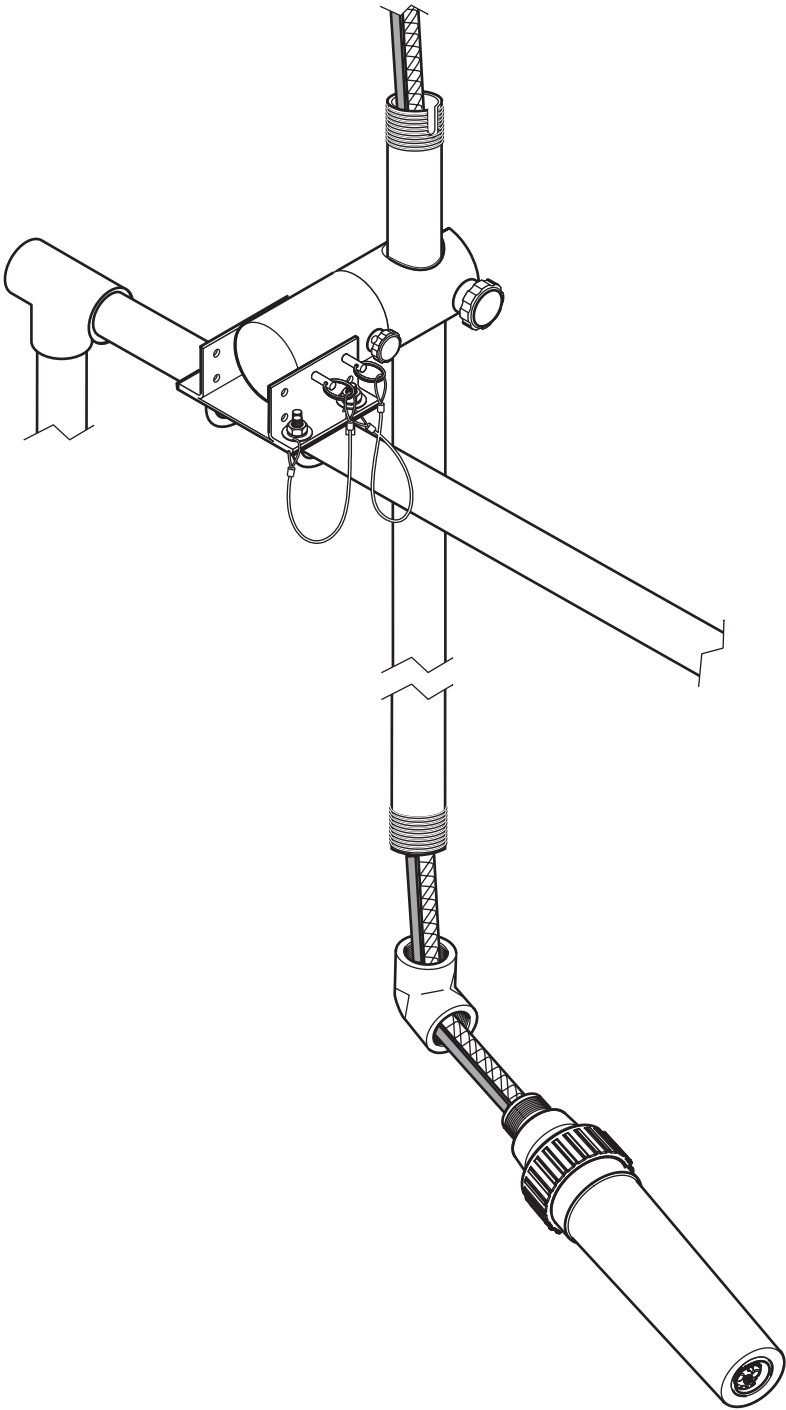


Figure 8 Installing the cleaning unit

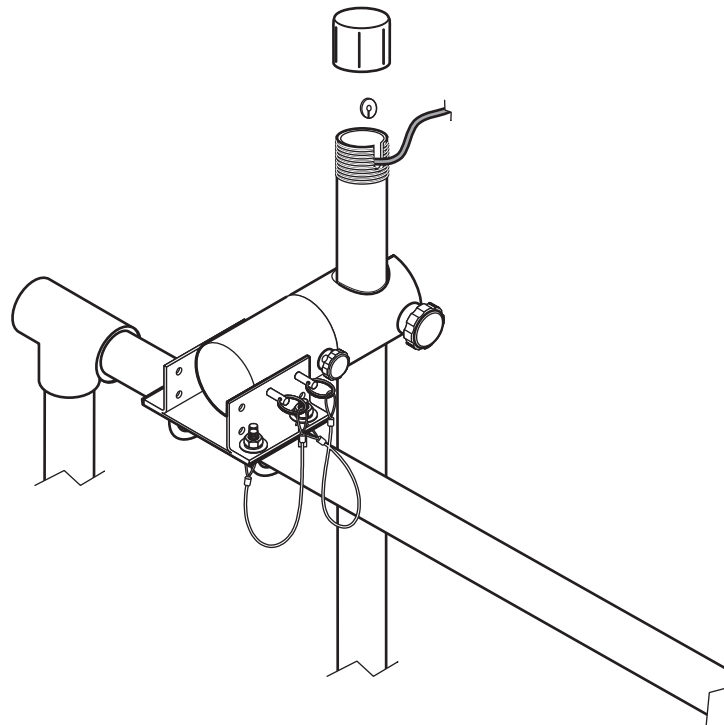


Figure 9 Installing the screw cap without the cleaning unit

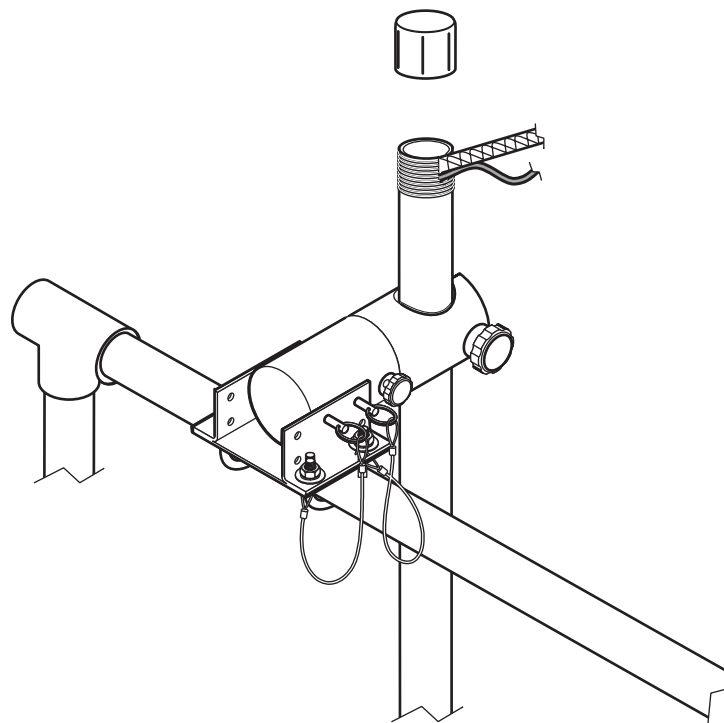


Figure 10 Installing the screw cap with the cleaning unit



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Outside the U.S.A. – Contact the HACH office or distributor serving you.

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