Cleaning Series 700 Submersible Pressure Transducers

Materials Required

- plastic bowls 8-12 inches in diameter and 4-6 inches deep
- supply of clean, lint-free cleaning rags
- 1 pair of internal retaining ring pliers with 90 degree tip angle, ring range 1/4" - ".1"
- 1 32 oz. Bottle of "The Works-Tub and Shower Cleaner" manufactured by Lime-O-Sol Company in Ashley, IN 46705 and locally available through WalMart, Kmart, Target and ACE Hardware stores at $2 to $4 per bottle

Preparation

Prior to the cleaning of the pressure transducer, ensure that all procedures have been followed in the proper cleaning of the cable and transducer to remove any hazardous materials. The Series 810 vent filter must be properly attached to the vent tube exiting the end of the cable. The cable should be coiled to ensure ease of handling and it must be protected against the possibility of accidental abrasion and/or penetration of the cable jacket by sharp objects. A lead length of 1 to 1 ½ feet of cable from the transducer should be allowed to facilitate handling during cleaning. The grey protective covering that is shipped with each transducer should be attached to the transducer at all times. It should only be removed prior to installation or cleaning.

Your work surface needs to be clean and free of clutter and large enough to accommodate all materials required in addition to the transducer and cable. Fill one of the bowls with fresh water, one with a mild detergent mixed with water and the last with 16 oz. of "The Works".

Cleaning

Step 1: Holding the cable 6 inches from the transducer, immerse the unit in the bowl containing the mild detergent and stir for 20-30 seconds. Remove and rinse in the bowl containing the fresh water using the same stirring motion used in the mild detergent. Rinse and wipe dry.

Step 2: Holding the body of the transducer with one hand so that you are looking at the retaining screen protecting the sensor, carefully remove the retaining spring using the retaining ring pliers. Keep the tips of pliers as close to the inside edge of the transducer as possible so that the tips will not penetrate the protective screen and damage the sensor diaphragm. Also, use minimal pressure needed to remove the ring. Do not remove the protective screen. Let the protective screen fall into the plastic bowl containing a mild detergent as you invert the transducer and repeat the instructions in Step 1.

KPSI now incorporates a water-block feature into our submersible cable. This renders the cable "self-sealing" against all but the most severe damage.

Step 3: Place the transducer in a vertical position with the pressure sensing end facing downwards, in the bowl containing "The Works" solution for approximately 15-20 seconds. Rinse in the bowl containing clean water and wipe dry the external casing only. Place the protective screen and retaining ring in the same solution for 15-20 seconds, rinse and wipe dry.

Step 4: Holding the transducer in a vertical position so that you can see the face of the pressure sensor, slide the protective screen across the edge of the transducer and let it drop into place. Replace retaining ring using the retaining ring pliers. Make sure the tips of pliers do not touch the sensor diaphragm.

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