FloScan Series 200 Flow Transducer Installation Comments

NOTE: These general installation comments are for Marine, Dynamometer-Flow Bench, Industrial and Stationary Generator applications only. They do not apply to aircraft installations.

NOTE: For specific information on installing aircraft flow transducers contact the avionics company where the flow transducer and electronics package was purchased.

1. Series 200 flow transducers have ¼" Female NPT inlet and outlet ports. Use only ¼" Male NPT fittings to match. Assemble and torque fittings to 15 Foot-Pounds of torque or two full turns past hand tight, (whichever comes first). FloScan Instrument Co. is not responsible for cracked transducer bodies caused by failing to use the correct fittings, over-torque or assembling fittings beyond the specified depth. Always check for leaks after installation.

2. A screen or filter should be installed upstream of the flow transducer to protect it from debris. Dirt and grit can impact rotor movement and/or damage rotor bearings.

3. Turbulence affects performance. Install a straight pipe, tube or hose between the transducer inlet and the closest elbow or other turbulence producing fitting or valve upstream of the transducer. Minimum straight line length should be approximately ten times the fuel line diameter.

4. Install the flow transducer with its plastic wire cap on top. This vents air and vapors insuring that the rotor remains totally immersed in liquid. For maximum accuracy at low flow rates the transducer should be mounted horizontally.

5. The transducer requires a filtered and regulated 100mA power supply at 12 VDC.

6. Most carburetor and closed loop EFI engines have an engine mounted "Spin-On" fuel filter installed upstream of the fuel pump. If your engine does not have this filter, a gasoline pulsation damper must be installed directly into the flow transducer's outlet port.

7. Gasoline pulsation dampers must be installed on both the forward and return transducers on open return EFI fuel systems.

8. Consult the FloScan Instrument Co. to determine the correct flow transducer-pulsation damper combination for all non aircraft applications.

9. Consult an avionics company to determine the correct flow transducer-pulsation damper combination for all aircraft applications.

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