

Specifications

Model: SDI Insert



June 2004

Specifications for SDI Series Insert Flow Sensor

The flow sensor shall be an insertion type (with a patented detection circuit) using a non-magnetic, spinning impeller (paddle wheel) as the only moving part. The sensor stem will be brass (or 316 Stainless steel) with the sensor tip being glass-filled polyphenylene sulfide (PPS). The impeller shall be Stainless steel with a Torlon® sleeve bearing. The shaft material shall be Tungsten Carbide. All O-rings shall be Viton®. The sensor shall be supplied with a 1" NPT adapter for installation into any commercially available weld-on fitting or pipe saddle.

The sensor shall operate in liquid temperatures up to 180° F (82° C) continuous service in line pressures up to 600 psi @ up to 140° F, 225 psi @ 180°F for brass (1000 psi @ 70° F, 900 psi @ 100° F, and 670 psi @ 140° F, and 225 psi @ 180°F for Stainless steel). The sensor shall operate in flows of 0.33 to 20 ft/sec with initial flow detection below .25 ft/sec. The flow sensor shall have a pressure drop of 0.5 psi or less @ 10 ft/sec for all pipe sizes 1.5" in diameter and up. The flow sensor shall have a repeatability of +/- 0.5%. The sensor shall operate with a minimum straight pipe requirement of 10 pipe diameters upstream and 5 pipe diameters downstream. The sensor shall be a two-wire device with either frequency or 4-20mA analog outputs. The sensor shall have LCD option available. The sensor shall be a Data Industrial SDI Series Insert Flow Sensor.

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