

Badger® SDI Hot Tap	SDI Series Hot Tap Flow Sensor	Sample Specifications
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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 316 Stainless steel with a glass-filled polyphenylene sulfide (PPS) tip. The impeller shall be Stainless steel with Torlon® sleeve bearing. The shaft material shall be Tungsten Carbide. All O-rings shall be Viton®. The sensor shall be supplied with a 1" full-bore ball valve in 316 Stainless steel with 1" NPT male threads and be capable of hot tap installation through a 1" IPS service tap. The sensor shall not require a tapping tool for hot taps under 400 psi.

The sensor shall operate in liquid temperatures up to 300° F (135° C) continuous service in line pressures up to 1000 psi @ 100° F, 900 psi @ 200° F, and 750 psi @ 300° F. 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 sensor shall have NIST traceable standard calibration to +/- 1% of rate. The sensor shall operate with a minimum straight pipe requirement of 10 pipe diameters upstream and 5 pipe diameters downstream. The standard sensor shall have a 2 wire frequency output. The sensor shall have available options that include a field programmable loop-powered 4-20mA or scaled pulse output with or without a local LCD display. This flow sensor shall be a SDI Series Hot Tap Flow Sensor.

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