

SDI SERIES

For Pipe Sizes 1-1/2" to Over 36"



The direct insert style liquid flow sensor with stainless steel/PPS plastic or PEEK plastic tip combines flow sensing with a built-in transmitter for an all-in-one flow measuring system. This device fits all 1-1/2" to over 36" (38 to 915 mm) pipes, and it is intended for direct installation into the pipe through a 1" NPT hole.

This sensor is available with or without hot tap capability. In the hot tap installation, the sensor is mounted in the pipe under pressure by attaching a service saddle or weld-on fitting to the pipe. Then the sensor assembly is attached to an isolation valve and extended into the pipeline to measure flow. Hot tap installations are often required in retrofit projects, but even in new construction, a hot tap sensor can be desirable for service considerations.

Software and programming cable are required to operate these meters. If the meter will be used for hot tap installation, the BGR-8A1027 tool is also needed (see Ordering Information).

SPECIFICATIONS

Recommended Design Flow Range	0.3 to 20 ft./sec
Pressure Rating	1000 psi @ 21 °C (70 °F)
Maximum Temp Rating	135 °C (300 °F)
Operating Temperature	Electronics: 20 to 65 °C (14 to 150 °F)
Pressure Drop	0.5 psi or less @ 10 ft/sec for all pipe sizes 1.5" diameter and up
Accuracy	±1% of rate over optimum flow range*
Repeatability	±0.5%

WARRANTY

Limited Warranty	1 year
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* ≥10 upstream and ≥5 downstream straight pipe diameters, uninterrupted flow.

NEMA 4 housing

Rugged and weather-proof

Highly durable

Stainless steel impeller, tungsten carbide shaft and Torion® bearing

Multiple outputs

Scaled pulse and 4 to 20 mA output available

Material options

Other materials available. See chart on facing page.

Fewer leaks

Viton® O-ring seal standard

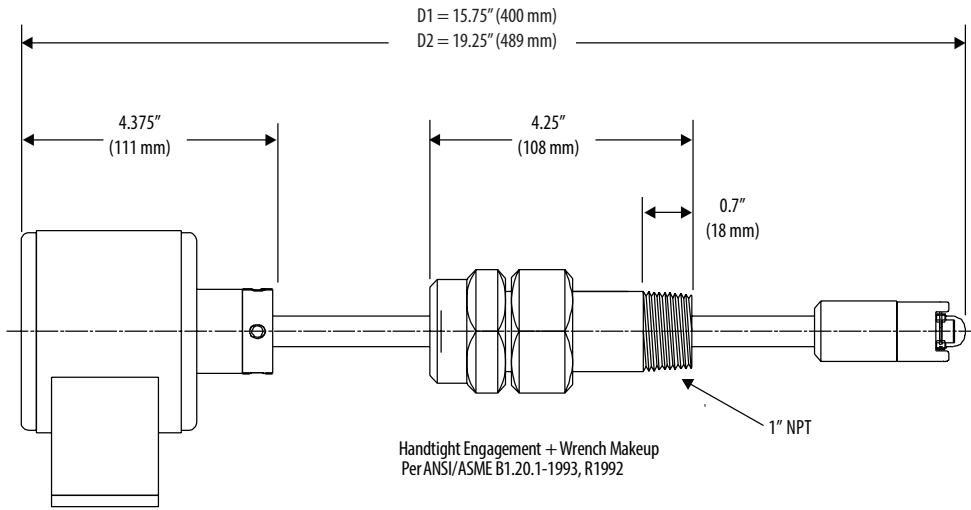
APPLICATIONS

- Flow measuring projects
- True hot tap installations
- BTU applications (requires temperature sensors and transmitter/monitor)



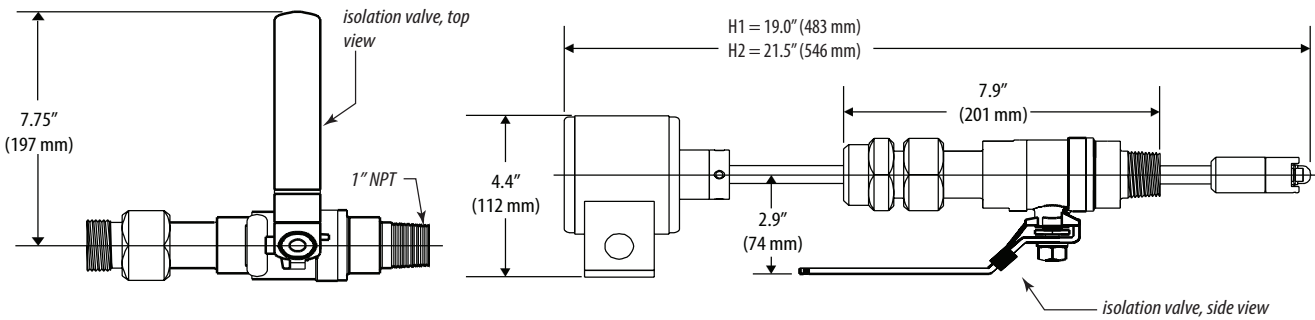
DIRECT INSERT

Dimensional Drawing



HOT TAP

Dimensional Drawing



ORDERING INFORMATION

	Material*	Type	Electronic Housing	Output*	Display	O-Ring*	Shaft	Impeller	Bearing
8SDI	0		N			0	2	0	0
	0 = Stainless steel/ PPS plastic tip	D1 = Direct insert for pipe 1.5 to 10" D2 = Direct insert for pipe 12 to 36" H1 = Hot tap for pipe 1.5 to 10" H2 = Hot tap for pipe 12 to 36"	N = NEMA 4x	0 = Frequency (standard) 1 = Analog 4 to 20 mA 2 = Scaled pulse	0 = No display 1 = LCD option (requires output option 1 or 2)	0 = Viton*	2 = Tungsten carbide	0 = Stainless steel	0 = Torlon*

Example:
8SDI 0 D1 N 2 0 - 0 2 0 0

*Alternate materials such as brass, bi-directional output, alternate O-rings and alternate shaft materials are available as a special order. Consult sales team for specific options available.

