

## Specification For Paddlewheel Flow Sensor

- Sensor shall be capable of sensing flow in either direction ( bi-directional).
- The paddlewheel insertion flow sensor shall generate an electrical signal proportional flow velocity from a range of 0.3-20 feet per second.
- The sensor shall be inserted at the correct depth and there shall be a fully developed flow profile. Linearity of the output signal shall be  $\pm 1\%$  of full range, with a repeatability of  $\pm 0.5\%$  of full range.
- The sensor shall not create a pressure drop of  $>1$  psi at any flow rate.
- Two optional sensor lengths shall allow the flow sensor to install into a flow installation fitting. Optional sensor lengths will allow insertion in pipes from 0.5 to 8 inches.
- The sensor body materials shall be glass-filled polypropylene (black) or, PVDF (natural).
- The electrometric seals shall be FPM-Viton<sup>®</sup> (standard) with optional EPDM or FFPM-Kalrez<sup>®</sup>.
- Rotor pins shall be Titanium (standard for PP), Hastelloy-C or PVDF (standard for PVDF), with optional ceramic, Tantalum, or stainless steel.
- Rotor material shall be black PVDF (standard for PP) or natural PVDF (standard for PVDF) with optional Tefzel<sup>®</sup> with or without Fluoraloy G<sup>®</sup> sleeve.
- Sensor shall have integral mount electronics capable of 4-20 mA or, Digital (S<sup>3</sup>L) or, Flow switch, or pump pulser output.
- The flow sensor shall be a Georg Fischer Signet model 2537 or equal.