

The flow sensor shall be an insertion type with a non-magnetic, spinning impeller (paddle wheel) as the only moving part.

- The sensor sleeve will be brass (or 316 stainless steel) with the sensor housing being PPS.
- The impeller shall be glass-filled nylon or Tefzel® with a UHMPWE or Tefzel sleeve bearing.
- The shaft material shall be tungsten carbide.
- The sensor will be supplied with a 2" NPT adapter for installation into any commercially available weld-on fitting or pipe saddle.
- The adapter shall have two ethylene-propylene O-Rings.
- The sensor will have all electronics epoxy-sealed with a 2-conductor, shielded cable extending out through a 1/2" conduit connection on the top of the sensor.
- Insertion of the sensor into any pipe size shall be 1-1/2" from the inside wall to the end of the sensor housing.
- The sensor shall operate in line pressures up to 400 psi and liquid temperatures up to 220° F, and operate in flows of 1 foot per second to 30 feet per second in pipes of 3" diameter up to 40" in diameter with linearity of  $\pm 1\%$  and repeatability of  $\pm 1\%$ .
- This flow sensor shall be Badger Meter Model 220.



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**The Americas | Badger Meter** | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400

**México | Badger Meter de las Americas, S.A. de C.V.** | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882

**Europe, Middle East and Africa | Badger Meter Europa GmbH** | Nurtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0

**Czech Republic | Badger Meter Czech Republic s.r.o.** | Maříkova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411

**Slovakia | Badger Meter Slovakia s.r.o.** | Racianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01

**Asia Pacific | Badger Meter** | 80 Marine Parade Rd | 21-04 Parkway Parade | Singapore 449269 | +65-63464836

**China | Badger Meter** | Rm 501, N° 11 Longyue Apartment | N° 180 Longjin Rd, Jiuting Songjiang District | Shanghai, China | 201615 | +86-21-5763 5412