



HOT TAP FLOW SENSORS 225B, 226B, 226SS SERIES



6

FLOW

DESCRIPTION

The **Badger Meter 225B, 226B, 226SS Series hot tap flow sensors** feature an elongated sensor, special mounting adapter, pipe nipple, and isolation valve to allow the nonmagnetic impeller sensor to be installed into a pressurized pipe while the pipe is in service. This is accomplished by first attaching a 2" saddle or Thredolet® onto the pipe and screwing the nipple and isolation valve into the saddle or fitting. A hole is then drilled through the pipe using a commercial tapping machine. When complete, the tapping apparatus is removed, the isolation valve is closed, and the sensor is installed. The 225B, 226B, 226SS Series can be used for pipe sizes 2-1/2" to 40" (6.4 to 101 cm). The hot tap flow sensor is also recommended for any application where it would be difficult to shut down or drain the pipeline to remove the sensor for service. The overall length of the sensor tube is 18" (46 cm); however, a clearance height of 36" (91 cm) should be allowed for the fully extended length of the insertion tool.



Model 225B



Model 226B



Model HTT

SPECIFICATIONS

| | | | |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy | ±1% of full scale | 226SS | nylon impeller, Pennlon® UHMWPE bearings, tungsten carbide shaft, glass reinforced PPS housing, and ethylene propylene EPDM o-rings (other materials available special order). Standard construction is 300 series stainless steel sleeve, glass-reinforced nylon impeller, Pennlon® UHMWPE bearings, tungsten carbide shaft, glass reinforced PPS housing, and ethylene propylene EPDM o-rings (other materials available special order). |
| Velocity Range | 0.5 to 30 fps (.15 to 9.0 mps) | | |
| Repeatability | ±0.3% of full scale | Dimensions | 18"H x 3" diameter (46 x 7.6 cm) plus valve handle |
| Linearity | ±0.2% of full scale | | |
| Rangeability | 60:1 | Weight | 225B 17.5 lb (7.9 kg) 226B, 226SS 13.0 lb (5.9 kg) HTT 12.0 lb (5.4 kg) |
| Connections | 2" MNPT | | |
| Wiring | 20' (6.1 m) two-conductor 20 AWG U.L. Type PTLC shielded cable | Approvals | CE |
| Media Compatibility | Hot water, chilled water, water/glycol (verify application is compatible with flow sensor materials of construction, check material compatibility resources prior to ordering) | | |
| Media Temperature Range | Maximum 221°F (105°C) | Warranty | 1 year |
| Maximum Pressure | | | |
| 225B | 200 psig (2069 kPa) @ 100°F (37.8°C) media temperature | | |
| 226B, 226SS | 400 psig (2758 kPa) @ 100°F (37.8°C) media temperature | | |
| Materials Of Construction | | | |
| 225B, 226B | Standard construction is Admiralty brass UNS C44300 sleeve, glass-reinforced | | |

ORDERING INFORMATION

| MODEL | DESCRIPTION |
|--------------|--------------------------------------------------------------------|
| 225B | Brass hot tap flow sensor with gate-type isolation valve |
| 226B | Brass hot tap flow sensor with ball-type isolation valve |
| 226SS | Stainless steel hot tap flow sensor with ball-type isolation valve |

ACCESSORIES

| | |
|--------------------|----------------------------------------------------------------------------------------|
| 230-FRK | Repair kit for 200 Series flow sensors (includes impeller, shaft, bearing, and O-ring) |
| 2X2.5-3THD | 2" Thredolet® for 2-1/2" and 3" pipes |
| 2X4-6THD | 2" Thredolet® for 4", 5" and 6" pipes |
| 2X8-36THD | 2" Thredolet® for 8" to 36" pipes |
| 813144-1211 | Replacement sensor and sleeve assembly for 225B, 226B flow sensors |
| HTT | Hot tap tool |
| 81873 | Replacement gate valve for 225B, 2" |

RELATED PRODUCTS

| | |
|---------------|-----------------------------------------------------------------|
| 310-00 | Programmable analog flow transmitter |
| UFT-1A | Universal flow transmitter, pulse and calibrated 4-20 mA output |