

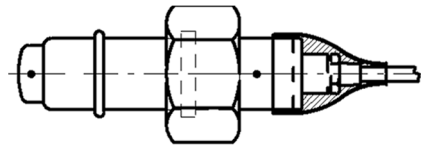
Installation and Adjustment Instructions

Please read carefully: No liability can be accepted for damage caused by improper use of the captor

1.0 Items delivered

- 1.1 flow-captor 4115 S150 + 4015.30 S101
- 1.2 Union nut G 1 A
stainless steel 1.4305 (303)
- 1.3 O-ring for G 1 A
- 1.4 Screwdriver for adjustment

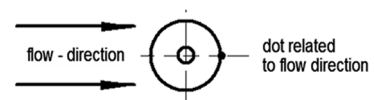
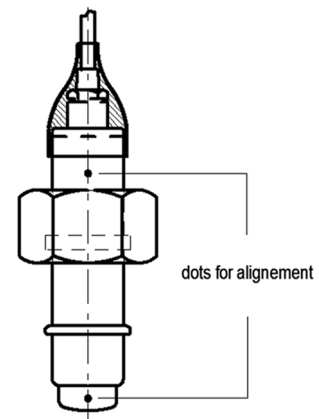
Dimensions (mm)



Dimensions see drawing no. 704309-4.KAT

2.0 Installation Instructions

- 2.1 Submerged mounting up to 5 m max.
- 2.2 Orientation to flow: see drawing
- 2.3 **Mounting:** Push O-ring over the sensing surface and housing up to the flange. Insert flow-captor into the fitting, welded on to the pipe, align the unit related to the flow direction as described and hold the unit in place by fixing the 1" union nut with a 41 mm width spanner. For ideal sealing a fitting with 4 to 5 mm wall thickness should be used (available as accessory in our program).
- 2.4 **Initial operation:** connect flow-captor to 24 V DC according to connection diagram and wait approx. 2 minutes before starting adjustment. The flow-captor has been preset under test pipe conditions to a flow range of approx. 0-200 cm/s (related to water). At customer's plant signal may vary dependant on individual mounting and medium conditions. Output current is 4-20 mA. If re-adjustment is required, please refer to point 3.



Rear view of flow-captor

3.0 Adjustment Procedure

- 3.1 Zero point adjustment in stationary medium (roughly):
Adjust zero point potentiometer after 2 min. so, that $I_a \approx 4$ mA, i.e. at $I_a > 4$ mA turn pot. to the left, at $I_a < 4$ mA turn pot. to the right.
- 3.2 Measuring range adjustment at max. flow: The measuring range is adjustable from 0-20 cm/s to 0-200 cm/s (medium water). Accelerate flow of the medium to a point, where the flow-captor should give an output signal of 20 mA and wait min. 2 minutes. Turn range pot. until $I_a = 20$ mA (to the left I_a will be greater, to the right I_a will be smaller). The color of the LED will change from green ($I_a \leq 20$ mA) to red (exceeding measuring range).
- 3.3 Fine adjustment of zero point: After at least 3 minutes standstill of flow turn zero point slightly so, that I_a is just 4 mA (turning direction as in 3.1).
- 3.4 Repeat adjustment according to 3.2 and 3.3 until the zero point (4 mA) and max. range setting (20 mA) remain constant.

Connection Diagram

