

## flow-captor 414x.1x



### Operating Instructions

#### Metering flow switch with analog display

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

#### 1. Mounting Position

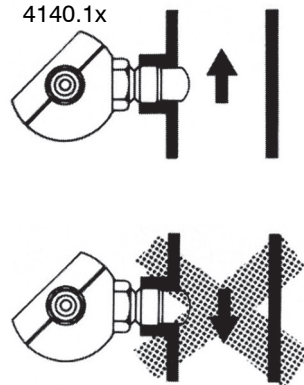
To obtain highest accuracy of switching signal, the flow-captor should be mounted in a position of minimum turbulence. The position should be at least 5 x ID downstream and 3 x ID up stream of bends, valves, T-pieces or changes in pipe diameters.

Immersion depth min. 5 mm for small pipes up to 1 1/2" ID.

Preferred position is in a vertical pipe with upward flow.

In a horizontal pipe, the flow-captor should be mounted at the side.

The sensor head orientation is independent from the flow direction.



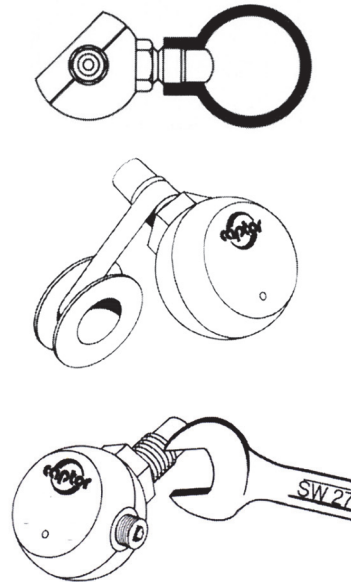
#### 2. Mechanical Installation

The flow-captor should be installed into pipe at sufficient depth to ensure that the sensing surface is in contact with the flowing medium at all times. This is particularly important, if the flow-captor is mounted on top of the pipe or in a T-piece larger than the pipe work where cavitation (air bubbles) may occur.

The flow-captor can be installed in a T-piece.

However it is much better to install it in a fitting welded to the pipework.

The thread should be sealed with Teflon tape or other commercial sealer, then the flow-captor tightened in the fitting using a size SW 27 spanner (wrench).



**CAUTION: On no account the flow-captor housing should be used for tightening into the pipework!**

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## flow-captor 4140.1x



### Operating Instructions

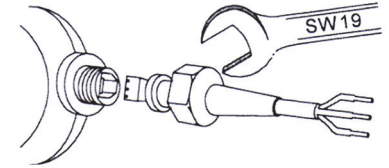
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#### 3. Electrical Connection

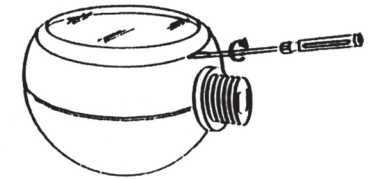
Insert plug gently into cable mounting (do not force as plug can only be mounted in correct way).

Nut (cord grip) is PG 9 and should be tightened using size SW 19 spanner (wrench). Ensure that the cable is not twisted during tightening.



#### 9. Cover

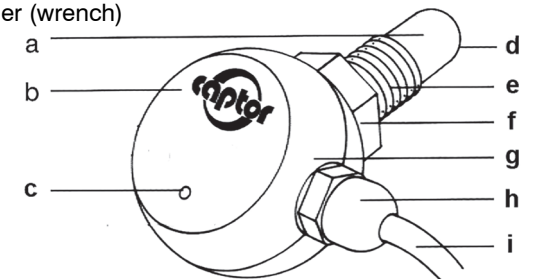
To protect the flow-captor against pollution and unauthorized adjustment, it is supplied with a plastic cover. Before use this cover should first be removed. This is carried out by turning the enclosed screwdriver through 90° as illustrated in the sketch. Remove the protective pull-off sheet which covers an adhesive layer on the flow-captor face plate and press the protective cover onto the flow-captor.



#### CAUTION:

To avoid loss of adhesion the inside surface of the cover should be kept free from dirt and oil!

- Sensor head of stainless steel WN 1.4305 (V2A, 303)
- Housing, front plate, anodized aluminium
- LED for output indication "Flow-OK"
- Sensing surface
- Thread G 1/2 A (1/2 BSP), alt. 1/2" - 14 NPT
- Section for SW 27 spanner (wrench)
- Housing, PBTP, glass fibre, reinf. (Ultradur®)
- PG-9 nut (cord grip) for SW 19 spanner (wrench)
- 2 m oilflex cable 3 x 0.5 mm<sup>2</sup>



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