

# NMI14/3/34 WP-Dynamic

The WP-Dynamic is a self-contained meter for the measurement of water flow in a full pipe.

The following requirements do not replace Sensus MB 9200 Bulk Meters – Installation Guide or the National Measurement Institute Certificate of Approval NMI 14/3/34. The certificate and installation guide are essential for the successful operation and maintenance of this device and must always be used.

However, for use of this meter under this module of the standard the following requirements must be met, as a minimum, and have been formulated from recommendations/advice in manufacturer literature and where required with input from the manufacturer.

## Requirements to be confirmed by validation type

<b>Post-installation (new or replacement meter)</b>	Section 1.0
<b>Ongoing (revalidation) or Faulty meter (maintenance)</b>	Section 1.0

## 1.0 Installation

- If the meter is dry during stationary conditions, large volumes of air passing through the meter on pump start can cause excessive wear and inaccuracy in the totaliser and in extreme situations can destroy the meter insert. The pipeline must be filled with water slowly to prevent the meter being damaged by pressure surges.
- Correctly sized air release valve/s must be installed prior to the upstream length of pipe for the meter, where the meter is dry during stationary conditions.
- The meter must be protected from stones, sand, and fibrous material with a suitable strainer, dirt box or filter.
- Where there is no disturbance upstream of the meter, 3 diameters upstream – as a minimum.
- Where the meter is installed as per Figure 1 in the certificate of approval, the butterfly valve must be in the fully open position and the valve not used for throttling of flow. For this installation configuration, the butterfly valve must be held in the fully open position with a tamper-evident seal/s applied. The mechanical tamper-evident seal/s must be applied, so it is broken to move the butterfly valve from the fully open position. For all other instances where a butterfly valve is upstream of the water meter, the meter must be installed with the minimum upstream and downstream lengths described for disturbance type 1 or 2.