

Title: Determining the Insertion Depth for the 2552 Metal Magmeter

The adjustable design and choice of two sensor lengths make the 2552 easy to install in pipes ranging from DN50 to DN1200 (2 in. to 48 in.). To select the appropriate sensor for a specific application, you need to have some information about the installation: the pipe's inside diameter and wall thickness. The calibration tables in the instruction manual contain these dimensions for the most common types of pipe. The information below will enable the user to calculate the H-dimension for other types of pipe.

The **Sensor Operating Length (SOL)** is the distance from the bottom of the alignment rod to the tip of the sensor.

- For the 2552-1 series of Magmeters, the SOL is 8.88 inches.
- For the 2552-2 series magmeters the SOL is 10.88 inches.

The **Stack Height** is the distance from the top of the pipe up to the highest point of the installation fitting. For standard installations, this is the top of the saddle or weldolet fitting. For Hot-tap installations, the stack height is to the top of the valve assembly.

The **H-dimension** is the adjusted distance from the ALIGNMENT ROD to the top of the pipe. It is calculated as follows:

$$\begin{aligned} & \text{Sensor Operating Length (SOL)} \\ & \text{minus } 10\% \text{ of pipe I.D.} \\ & \text{minus Wall thickness} \\ & \text{minus Stack height} \\ & \text{Equals "H" Dimension} \end{aligned}$$

