

PrimeProbe2[®] - Installation

Install the PrimeProbe2

With a valve installed on the pipe you are ready to insert the PrimeProbe2. Decide if you want to install on the centre-line of the pipe (1/2-pipe) or at the mean velocity point (1/8 or 7/8-pipe). Centre-line installation allows for a greater margin of error if not installed exactly on the centre-line. 1/8 pipe is used if the probe length cannot reach the centre-line. For best accuracy measure the pipe internal bore.

Beware when performing 7/8 insertion on larger pipes as excessive velocity can cause damage.

Procedure

- 1) For required insertion depth determine the distance between top edge of reference ring and bottom edge of converter box (called Z-value). Secure the reference ring at this value.

Insertion depth	Z-value
1/8D	$L - (X + S + 1/8D + 110)$
1/2D	$L - (X + S + 1/2D + 110)$
7/8D	$L - (X + S + 7/8D + 110)$

D = Internal diameter of pipe S = Pipe thickness
L = see table below:

Insertion Length	L
300mm	650mm
500mm	850mm
700mm	1050mm
1000mm	1350mm

- 2) **Before continuing ensure that the anti-bounce chain is attached and secure.**
- 3) Tighten the two side-screws.
- 4) With probe fully retracted screw the 1-inch sensor sleeve into the pipe.
- 5) Slowly open the ball valve. Ensure that the valve is 100% open.
- 6) Loosen the two side-screws.
- 7) Slowly push probe through the open valve until the reference ring touches the locking collar.
- 8) Verify that the push handles are exactly in alignment with the pipe's axis (± 2 degrees).
- 9) Tighten the two side-screws.
- 10) Carefully bleed the pressure tapping to allow any trapped air to escape.
- 11) When installation complete switch ON as defined in Quick Reference Guide IXD-704-QR.

