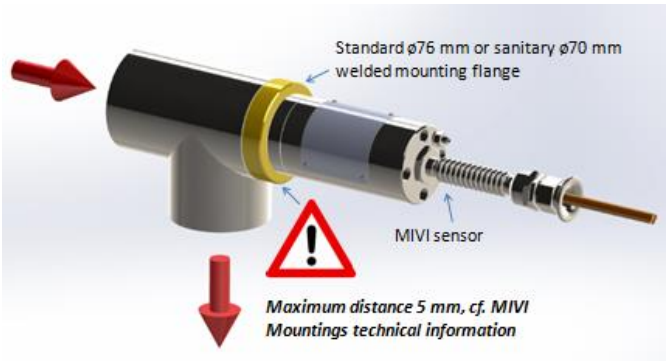
MAIN MIVI MOUNTINGS

On pipe mounting	On reactor mounting
Pipe angle mounting	Mounting flange on reactor wall
Measuring chamber mounting	Immersion tube on reactor wall
Straightline mounting	Immersion tube from top
Immersion tube on pipe angle (for large pipes)	Mounting on double jacket reactor

Pipe angle mounting – Recommended Sofraser MIVI mounting

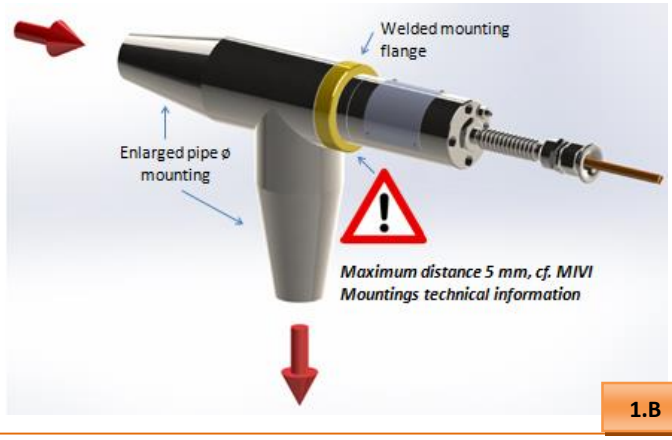
Mounting on pipe angle
(Inline or Online) - *Recommended Sofraser mounting*



Options: Special size mounting on pipe angle with custom diameter for welded mounting flange

1.A

Enlarged pipe mounting on pipe angle (to enlarge pipe diameter and to reduce fluid speed)
(Inline)

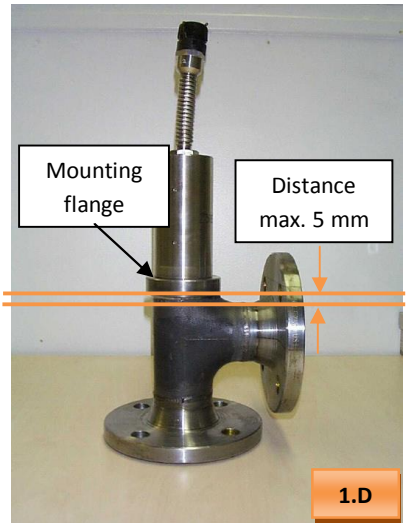


1.B

Important:

- The Sofraser mounting flange must be welded on customer installation following best standard practices
- **The Sofraser "proprietary" mounting flange has to be welded on pipe angle at a maximum distance of 5 mm from the edge of the angle**
- **For other special pipe angle mountings:**
  The length of branch shall be reduced as much as possible

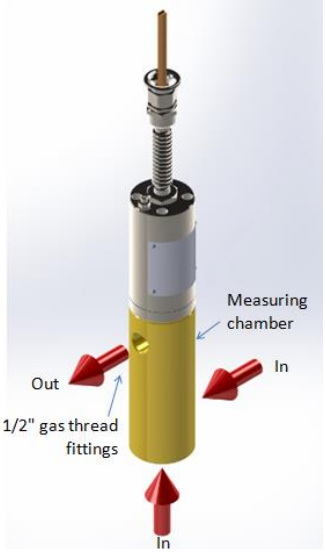
1.C



1.D

Measuring chamber mounting

Standard measuring chamber mounting (Inline or Online)



2.A

2.B

Important:

Measuring chamber inline mounting:

- **Advised flow rate versus product viscosity:**

Fluid viscosity	Upper recommended flow rate
1 to 100 cP	27.8 l/mn / 7.5 gpm
100 to 1000 cP	13.9 l/mn / 3.7 gpm
1000 to50 000 cP	8.3 l/mn / 2 gpm
> 50 000 cP	0.3 l/mn / 0.1 gpm

Options:

- **Reduced internal diameter**
- **External temperature probe**
- **Double jacketed measuring chamber**

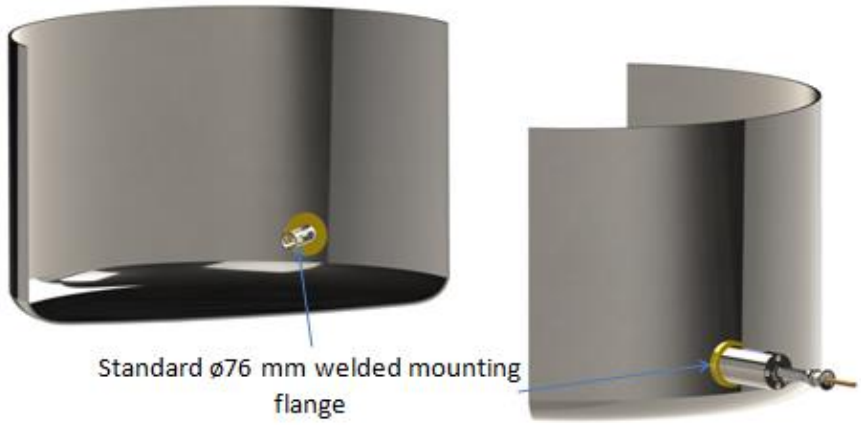
Caution:

- **When dismounting the MIVI sensor, remember to put the protecting tube in order to protect the vibrating rod**
- **The orientation and/or flow direction has to be adjusted when bubbles and/or sedimentation is likely.**

2.C

On reactor mounting

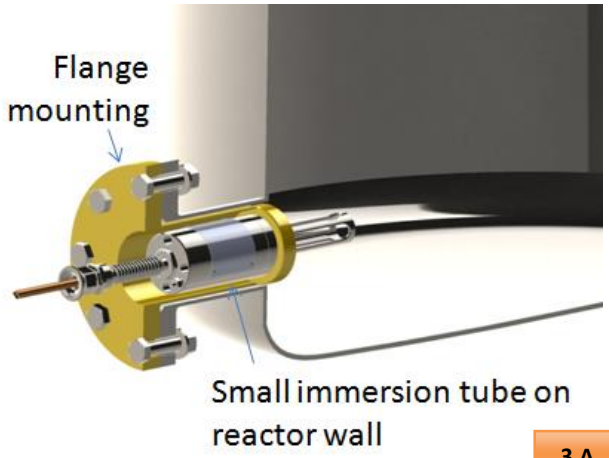
Direct mounting flange on reactor wall



2.D

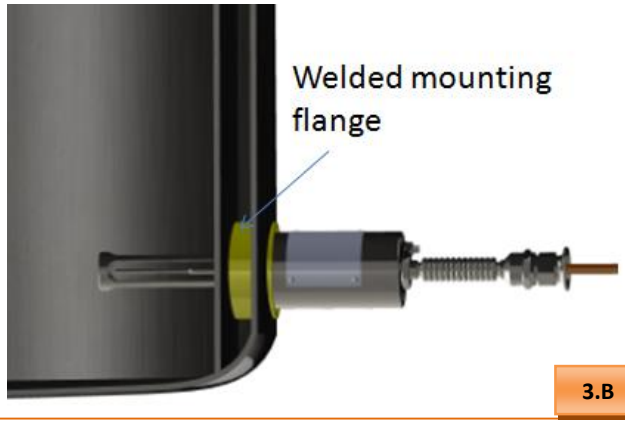
Special mountings on reactor

Small immersion tube on reactor wall



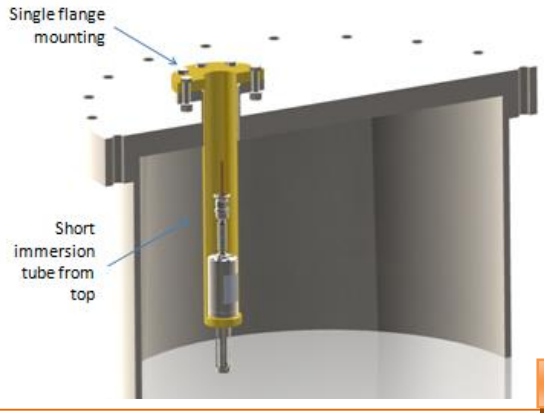
3.A

Mounting on double jacketed reactor



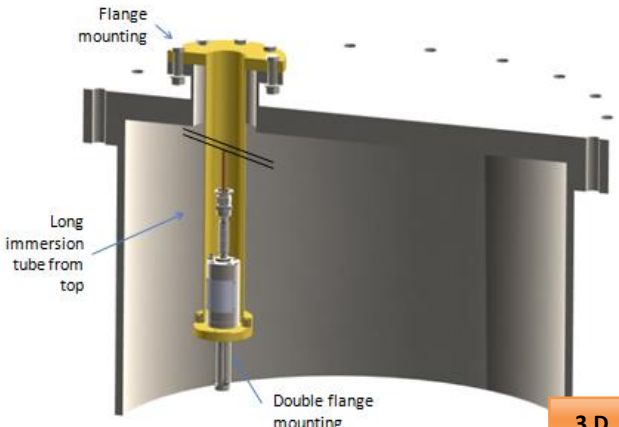
3.B

Short immersion tube from top (Length < 1m / 3 ft) Single flange



3.C

Long immersion tube from top – Double flange



3.D

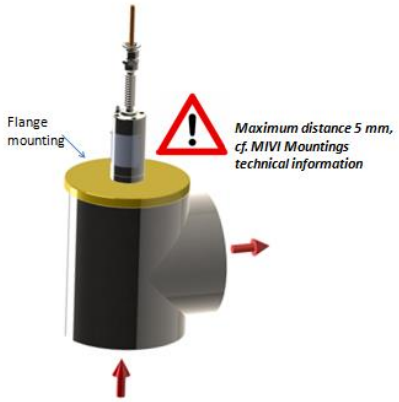
Important:

- **Avoid installing the MIVI in the pathway of stirrers and other moving parts**
- **Do not install the MIVI in dead zones where product is not stirred and/or renewed**

3.E

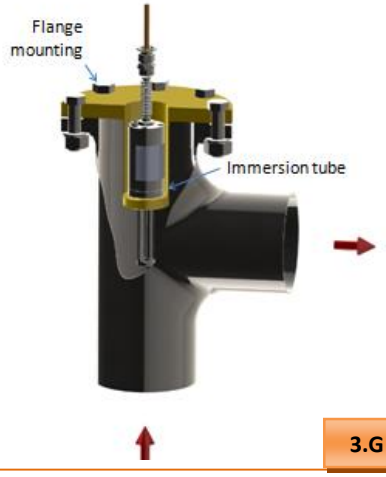
Special mountings on large pipe angles

Special large pipe angle mounting



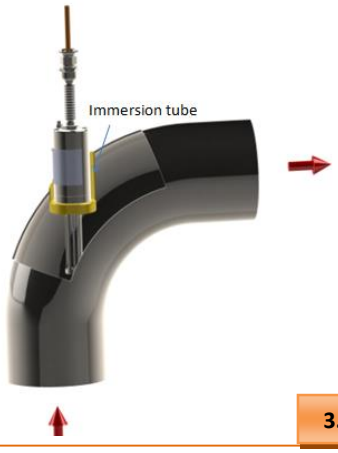
3.F

Immersion tube on pipe angle mounting (a) – Large pipe (Inline)



3.G

Immersion tube on pipe angle mounting (b) – Large pipe (Inline)



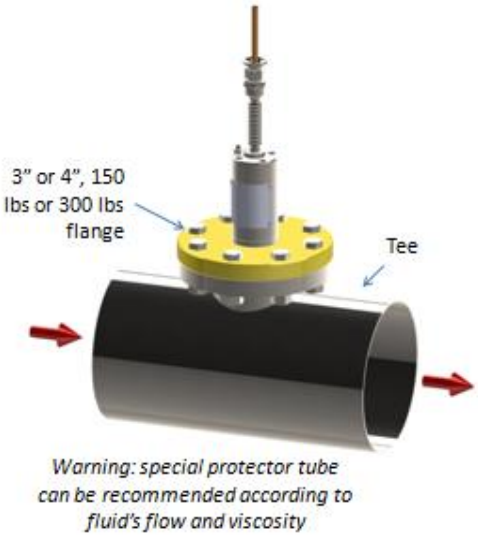
3.H

Straight-line mountings

Full straight-line mounting (Inline)

4.A

Straight-line flange mounting (Inline)



4.B

Important:

- **Consult us for feasibility**
- **A special protector tube** provided by Sofraser must be mounted with straight-line mountings to allow correct fluid circulation around the vibrating rod.
  The protector tube must be designed according to process specifications (flow, pressure, temperature, viscosity, internal diameter of the pipe)
- Low energy loss
- Laminar-like flow (or streamline flow) is required: fluid flows in parallel layers with no disruption between layers

4.C

Inline, Online and On reactor mounting examples

Inline Mounting example

4.D

Online mounting example

4.E

On reactor mounting example

4.F