
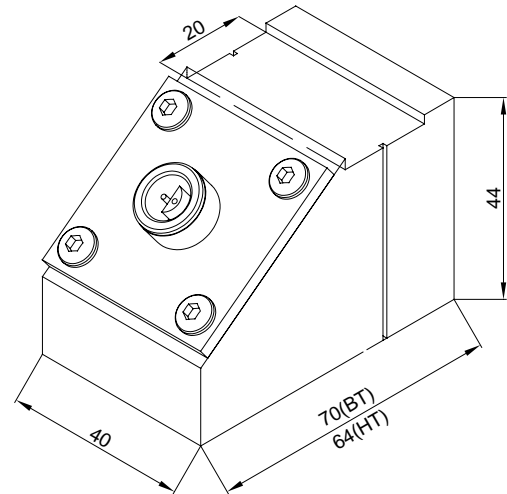


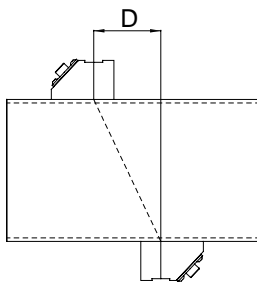
□ GENERAL DATA

- ⇒ Probe for liquid flowmetering only.
- ⇒ Not affected by pressure action and fluid aggressivity
- ⇒ Suitable for DN 100 to DN 2500 (depending mainly on pipe conditions and quality).
- ⇒ Pipe materiel : plastic, PVC, steel, stainless steel, cast iron, asbestos (concrete excluded)
- ⇒ Maximum temperature for continuous use :
ref. 1595 BT: 80°C.
ref. 1595 HT: 150°C.
- ⇒ The referenced probes can be used either in direct or reflex mode.
- ⇒ Associated to a converter and safety barrier BZ01, these probes can be CE 0081  II 1 G EEx ia IIB T3 approved.

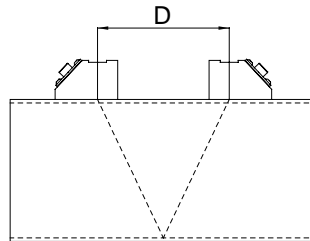


View with Lemo
or equivalent connector

Direct mode



Reflex mode



N or W mode

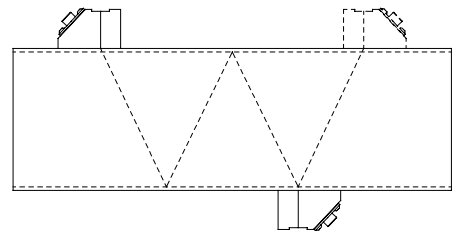


Fig 1

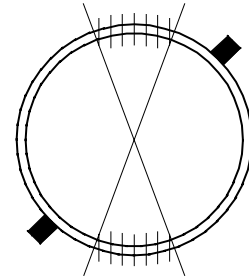
□ CHOISE OF OPERATING MODES

- ⇒ **REFLEX** Recommended mode
- ⇒ **DIRECT** Damaged mode : corroded pipe, absorbant fluid, multiproduct applications.
- ⇒ **OTHER (N or W)** : small pipes

□ PROBES LOCATION

- ⇒ When possible, locate the probes upstream from an hydraulic disturbance.
- ⇒ When possible, respect minimum straight length :
10 Ø upstream
3 Ø downstream Ø means diameter of the pipe

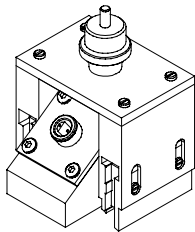
- ⇒ On an horizontal pipe, avoid installing probes on the upper generatrix (bubbles) or lower generatrix (deposits).
- ⇒ On a vertical pipe, there is no restriction for probe location.
- ⇒ For both modes, distance **D** (cf. *fig. 1*) is measured thanks to from the marks engraved on the probe.
- ⇒ Precision on interprobe distance :
 - Axial +/- 2 % x Ø
 - Angular +/- 2°
- ⇒ Our digital flowmeters calculate and display the value of **D**.
 - See user guide manual of the unit.



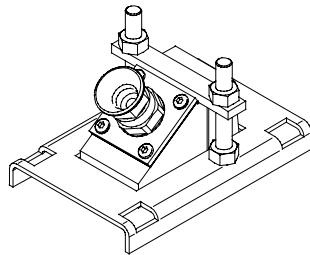
❑ **PROBE INSTALLATION**

- ⇒ Clean up the pipe prior to fitment of probes (rust ...).
A paint of good quality does not mind.
- ⇒ Temporary measurements :
Apply plenty of coupling agent between probe and pipe surface.
For lack of coupling gel, use grease for mechanics.
- ⇒ Permanent measurements :
Perform the coupling with the recommended elastomer tape.
Firmly strap up with the supplied stainless steel belts or better by using our support ref. **SU-1629** (pipes ≥ 6") or our support ref. **SU-4245** (→ pipes up to 6").
 - A lubrication of each face of the elastomer makes the operation easier.
 - These probes can be used with the below supports.

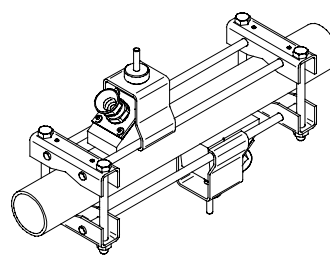
Magnetic support
SU-1625



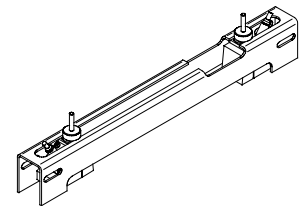
Support to be soldered
or to strapped
SU-1629




Industrial support
SU-4245



Sliding support
SU-1673



❑ **CONNECTIONS**

- ⇒ Standard probes are supplied with fast “push pull” connectors (lemo or equivalent). Always use cables recommended by **ULTRAFLUX**. For industrial or heavy duty applications, upon request, probes can be equipped with an IBM connector or with a waterproof gland and cable (length to be determined). They can also be certified ATEX : CE 0081  II 2 G EEx m IIC T6 with a high gland or EEx me II T6 or EEx md IIC T6 with a specific connection box (Tamb<50°C).

❑ **COMMISSIONING**

- ⇒ When commissioning, if the acoustic power transmitted appears poor, proceed as follows :
 - Check probe coupling and distance **D**.
 - Change probe location.
 - Change from **REFLEX** mode to **DIRECT** mode.

❑ **MAINTENANCE**

Each 6 months, check the coupling conditions. Refer to the associated converter information.