

# Thermowell & pressure tapping

Fluxi 2000/TZ

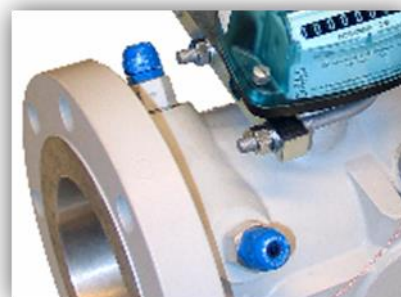


## Introduction

When a volume converter CORUS is connected to the meter, temperature and pressure have to be measured at the operating conditions of the meter. Itron's thermowells and pressure tapping are designed to provide a quick and safe solution to connect the volume converter to the Fluxi 2000/TZ meter.

## Thermowell

Up to 2 thermowells can be installed directly onto the meter. They are placed after the turbine wheel and therefore don't disturb the flow of gas.



### Benefits of the in-built thermowells:

- No extra machining / welding requested to install the thermowells.
- Only 3 models of thermowells for all the Fluxi 2000/TZ range, up to Class 600.
- Thermowells can be retrofitted without requiring the recalibration of the meter (stated in the PTB Approval).

### Characteristics:

- External thread 2 : G $\frac{1}{4}$  or G $\frac{1}{2}$  ISO228/1 depending on the DN
- Internal diameter : 7,5 mm
- Stuffing box 1 : M12x1,5 with a hole for sealing

### Mounting:

- Maximum torque for screwing: 15 mN
- Put a small quantity of high thermally conductive paste in the thermowell to increase the speed of response and to improve the accuracy of the temperature measurement.
- The thermowell and the stuffing box can be sealed if requested.
- Tightness test of the assembly has to be done.

### Reference for ordering ONLY for TZ body 3 x DN (not for short version):

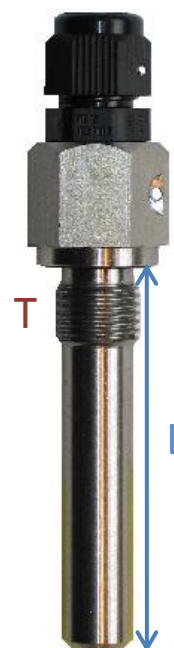
DN	PN 10-40 / Class 150	Class 300/600
50	Ductile Iron: E952-014-14 (x1) Steel: E952-014-04 (x1)	E952-014-14 (x2)
80	E952-014-04 (x2)	E952-014-14 (x2)
100	E952-014-04 (x2)	E952-014-04 (x2)
150-200	E952-014-14 (x2)	
250-500	E952-014-05 (x2)	

E952-014-04: T = G $\frac{1}{4}$ ; L = 59 mm

E952-014-14: T = G $\frac{1}{4}$ ; L = 93 mm

E952-014-05: T = G $\frac{1}{2}$ ; L = 147 mm

E952-014-1401: T = G $\frac{1}{4}$ ; L = 93 mm + 1 welding butt for installation in the piping DN50-80, downstream of the meter.



## **Pressure tapping**

The Fluxi 2000/TZ is equipped, as standard, with 1 pressure tapping placed before the turbine wheel and marked with "Pm".

On request, it can be equipped with 2 pressure tapping.



### **Characteristics:**

- Ermeto EO 6S (955-164-27) connection for a 6 mm pipe, **as standard**.
- Ermeto EO 6L (955-164-37) for 6 mm pipe or EO 10L (955-164-26) for 10 mm pipe - , **on request**.
- "S" = High pressure series and "L" = Medium pressure series
- G $\frac{1}{4}$  ISO228/1 thread to screw on the turbine
- Two holes on the nut to allow sealing

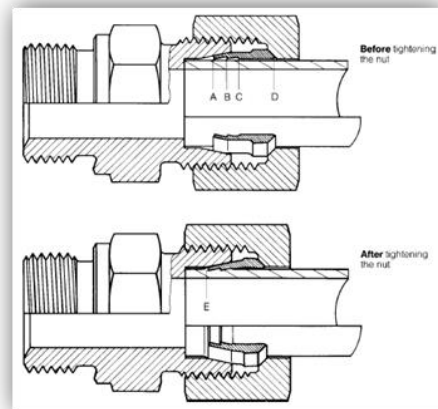
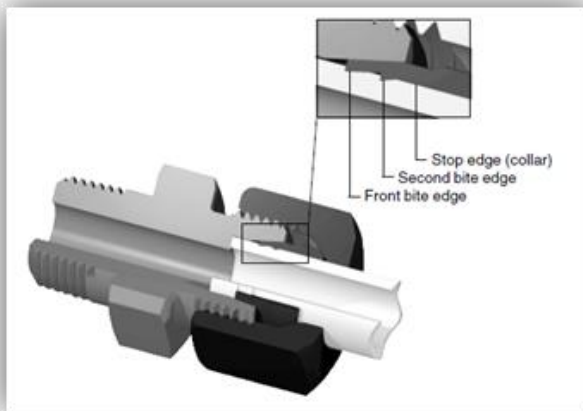
EO 6S

EO 10L

EO 6L



## How EO fittings work:



**Note:** *The standard pressure tapping Ermeto can be replaced, on request, by a connector NPT 1/4" female (Ref: 951-831-28)*

