# Sanitary Sensor 4113s

Pharmaceutical sanitary open type for ultrapure injection water

4-electrode conductivity sensor with external electrodes. Used with TCU series 3100 and 3300.

Technical data	
Materials	PTFE, silicone rubber and steel W 1.4404 (AISI 316L)
	Wet SS parts of sensor are polished according to the pharmaceutical standard, Ra < 0.80 µm.
Pressure	12 bar at 150 ºC
	1.0 ± 0.5 % (electrically adjusted)
	Calibrated in a Ø51 mm SS pipe.
Cell constant	Ø63 mm SS pipe gives an error of ~ -6 %.
	Ø63 mm plastic pipe gives an error of ~ 20–30 %.
Reproduceability	±2 %
Linearity	From 20000 to 0.2 µS/cm ± 2 % per decade.
	Below 5 µS/cm + 0.01 µS/cm.
Temp. sensor	Pt 1000 (IEC 751 class A)
Time delay	T_{90}, 9 sec.
Protection	IP65 splash-proof (DIN 40 050)
Sensor cable	PVC 12 x 0.25 mm²
	standard length 3 m
	max. temp. 70 ºC
	Sensor can optionally be mounted with 5 m of cable; measuring below 0.5 µS/cm with this cable length is not recommended.
Connection	11-pole strip connector with MF20 cable adapter
Weight	0.6 kg
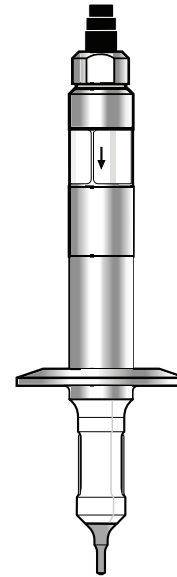
*dimensions in millimeters*
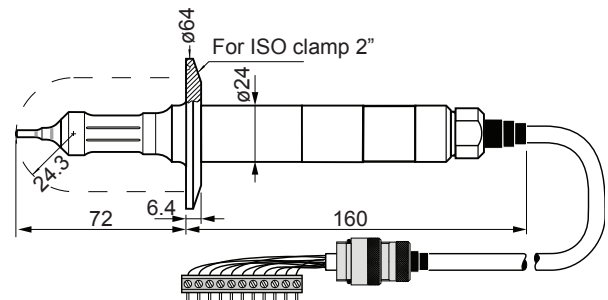
Typical mounting
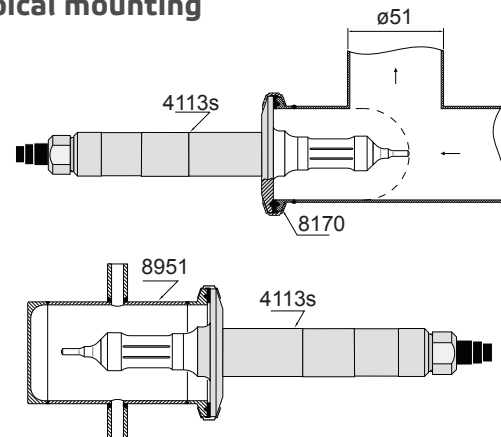
Mounting

Sensor mounting with a 2" ISO 2852 clamp (not included). Keep a minimum distance of 24.3 mm to the surroundings.

On a horizontal pipe the sensor should be mounted to the side of the pipe, in a place where no air bubbles occur. Construct the piping in a self-draining manner.

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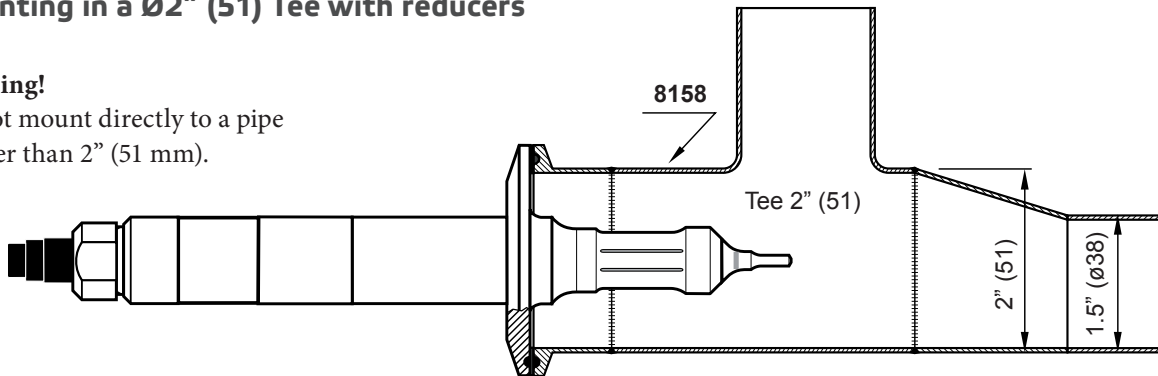## Mounting with type 8151 stainless steel nipple in a 2" plastic Tee

Warning!
Direct mounting to a plastic pipe
gives errors of -25% to 30 %

2" BSP

8151

O-ring 50.47 x 2.62
included in 8151

ø63 plastic Tee
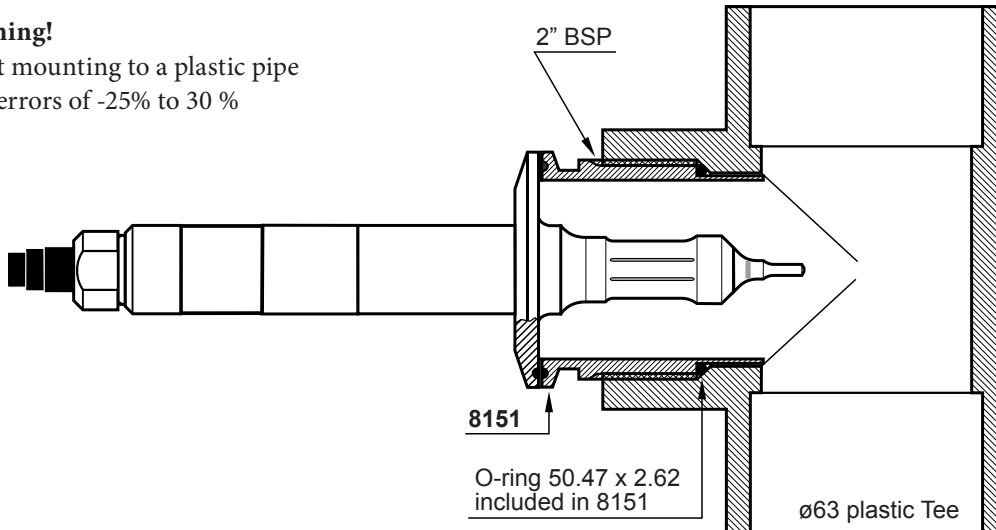
Mounting in a Ø2" (51) Tee with reducers

Warning!
Do not mount directly to a pipe
smaller than 2" (51 mm).

8158

Tee 2" (51)

2" (51)

1.5" (ø38)

Mounting with 8155 stainless nipple in a 63.5mm stainless Tee

Warning!
Direct mounting to pipes wider
than 2" (51 mm) gives errors.

8155

8

ø63.5 Tee

For more information, contact your local Valmet office. www.valmet.com

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