RADIATION TECHNOLOGY

ISOKINETIC SAMPLING PROBE

In compliance with the NF ISO 2889 version 2010 standard

The know-how and expertise for quality isokinetic sampling probes for measuring and controlling radioactive substances in the pipes and outfalls of nuclear facilities.

OPERATING PRINCIPLES

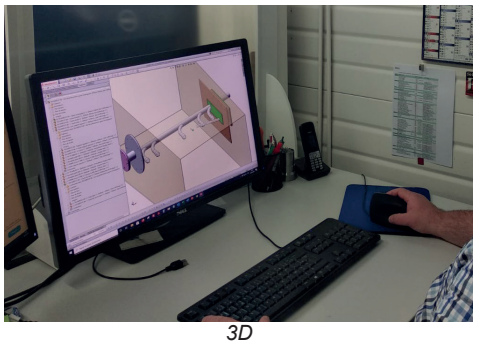
Isokinetic sampling consists of taking a sample at each measurement point such that the average suction speed at the probe inlet is equal to the suction speed in the absence of a probe.

In the context of representative sampling of particles on a discharge outlet, it is essential to maintain the isokinetic nature of the sampling and to meet the requirements of the ISO 2889 standard.

PROCESS

Conception:
- aeraulic studies: calculation note according to ISO 2889
- mechanical studies: definition of the type of installation and connection according to the constraints of the installation

Drawing and 3D projection:
- drawing of plans with detailed dimensions and identification of welds
- 3D projection: verification of the layout



3D

Manufacturing:
- machining / cutting / bending
- welding: NF EN ISO 9606-1 qualification
- high anti-corrosion treatment: pickling then passivation by chemical baths to regenerate the protective layer of the stainless steel by oxidation of the chromium
- traceability: laser engraving of the serial number and site number on the probe
- all stainless steel seals and screws are supplied with our probes

TIG welding

SDEC
SOLUTIONS TECHNOLOGIQUES POUR L'ENVIRONNEMENT

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QUALITY CONTROL

Weld inspection: by dye penetrant inspection according to NF EN ISO 3452-1 standard by a certified and independent body

Dimensional control: with a measuring column on a marble

Tightness control: according to NF ISO 2889 standard

Material and roughness control: material certificate 3.1b (stainless steel 316L) and internal roughness (< 0.8 µm)

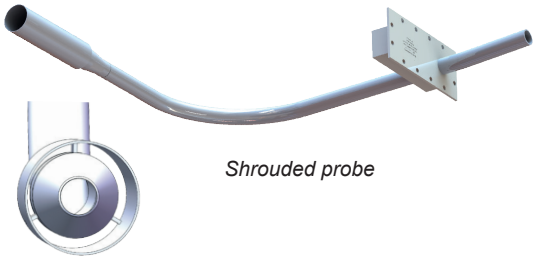
Supply of the complete quality control and assurance file according to ORANO, EDF and CEA standards

Measurement column on marble

PROJECT FOLLOW-UP

Our teams accompany you until the installation of the probes on site.

Two nozzle isokinetic probe on mounting flange with counter flange and opposite support



Shrouded probe

BENEFITS

- **ISO2889 compliance**
- **Control of the process from design to manufacture**
- **Customised design adapted to the constraints of the installation**
- **Probes manufactured entirely in stainless steel Ra < 0.8 µm**

• Our probes are entirely manufactured in France in our factory in Reignac sur Indre

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