



REFINERIES APPLICATIONS

Up to 200°C*

Liquid hydrocarbons processing

Heavy and light fuels blending

Monitoring of distillation column bottoms

Visbreaking

SIMILAR APPLICATIONS

Pitch, Tar, Bitumen handling

Asphalt blowing

Lubricants plants



The economical solution to measure viscosity at **reference temperature**

*Other configuration available on demand

HOW TO ENSURE A CONSTANT PRODUCT QUALITY IN OIL AND GAS INDUSTRIES?

In **Refineries and Petrochemical processes**, on-site control is of primary importance in regards to product quality. Viscosity is **one of the key parameters** of many petroleum products.

It influences storage, handling, and operational conditions.

On-line Viscosity Measurement at Reference Temperature is needed in refineries for petroleum, oil, liquid hydrocarbons, heavy and light fuel blends. **Temperature Compensated Viscosity (TCV)** provides **viscosity at constant reference temperature** and eliminates process temperature variations.

Nowadays, **REFINERIES** face different constraints:

- **PARTIAL UNDERSTANDING** due to lack of monitoring steps
- **VISCOSITY CHANGES** with product quality and process temperature
- Difficulty to **CHARACTERIZE THE BEHAVIOR** of reference products
- **VARYING ORIGIN OF CRUDES** and refining methods
- **QUALITY** of petroleum products and derivatives **DEPENDS ON VISCOSITY**

OIL & GAS BEST SELLER SOLUTION - *in hazardous environments*

- +** A single sensor able to provide **instantaneous** and **continuous measurement**
- +** **Avoids drift** during manufacturing and **guarantees end-product quality**
- +** Processor directly calculates **Viscosity at Reference Temperature (TCV)**
- +** Use of either simplified calculations or **ASTM D341 formula**
- +** **Compensates** the effect of **variable process temperature**
- +** Correlated to the **ASTM D445 standard**
- +** Works **without maintenance** between two plant overhauls



Key characteristics:

- | | |
|---|--------------------------------------|
| Resistant to high pressure and high temperature | Perfect blending control |
| No wearing parts, very low maintenance | Robust, reliable and easy to install |
| No need for sample conditioning | Measures in any positions |



SOFRASER

Pioneering viscometry since 1972

FEATURES & SPECIFICATIONS



MIVI process viscometer

Typical Full Scale Range: 1000 cP*

Temperature: up to 200°C*

Pressure: up to 60 bar*

Ex-proof certification

Material: 316L SS*

Ingress Protection: IP67

With 316L SS Weld-mount flange



Cf technical datasheet 134
*Other available on demand

9601 processor



Viscosity, TCV and Temperature processor

Automatic calculation of Compensated Viscosity (TCV)

LCD screen

4 x 4-20 mA outputs

Operating temperature: 0-45°C

Panel-mount type

Cf technical datasheet 241

DASTEC S.R.L.

Representantes / Distribuidores Exclusivos

Argentina

Tel: (+54 11) 5352 2500

Email: info@dastecsr.com.ar

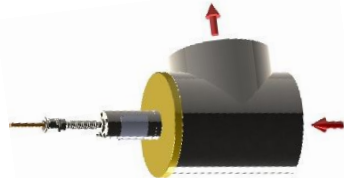
Web: www.dastecsr.com.ar

Uruguay www.dastecsr.com.uy

Paraguay www.dastecsr.com.py

MAIN MOUNTINGS

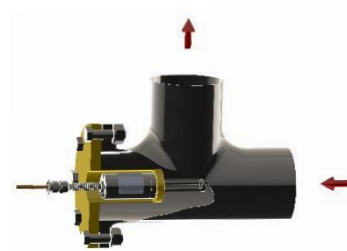
Cf technical datasheet 319 & 320



On large pipe angle



On straight-line



On immersion tube

 **SOFRASER**
Pioneering viscometry since 1972

Any questions or specific needs regarding other viscosity solutions?
Let us help you find the best match for your process by **contacting us at:**

instruments@sofraser.com

ZI, 15 rue Nobel
45700 VILLEMANDEUR
Tel: +33 (0) 238 85 77 12
Fax: +33 (0) 238 85 99 65

Ref.368 - Non contractual information

www.sofraser.com