



Slurry Oil Filtering Using our PanaFlow Meters

Problem

A European filtering company was awarded a Fluid Catalytic Cracker Slurry Oil filtering package with the aim of getting the most valuable product out of the heavy slurry oil from the FCC unit. The refinery commissioning the project required the ability to control filter efficiency by controlling the feed flow to them. Filtering companies typically do not instrument these lines due to increased costs, but to give the end user the ability to control these lines, they needed to include three flow measurements.

Application

Medium:	Slurry Oil
Number of lines:	3
Pipe:	3"
Flow range:	0 – 24m ³ /h
Temperature:	284°C – 340°C (543°F – 644°F)
Pressure:	7 – 20 barg (101– 290 psig)
Density:	890 – 914 kg/m ³ at flowing conditions
Viscosity:	0.32 – 0.75 cP at flowing conditions
Accuracy requirement:	±1% of reading

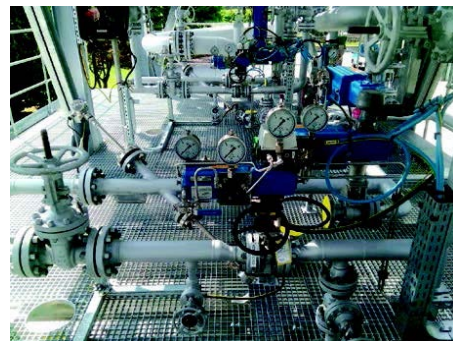
Benefits:

From an end user perspective:

- Monitor filters outlet flow and better assess filtering efficiency as well as the health of the filtering element at low operational cost.

From an OEM perspective:

- Reliable solution and brand offering an effective solution matching customer requirement. Our selection was single path while our competitor had to use multi-path to get to the same outcome.



Solution

Typically these measurements are done by orifice plates as these are not critical measurement points. Increasing numbers of refineries are using newer technologies for additional benefits:

- More reliable and accurate information from the flow meters
- Reduce their operational expenditure (OPEX)
- Limit blockages and clogging risks from orifice plates and DP cells

Ultrasonic technology was selected because it ideally met the above criteria. The filtering company approached Panametrics and one other USM manufacturer and ultimately selected Panametrics for this project. We proposed our PanaFlow meters in a 1 path version with BW T/FTP set up as shown in the photo.



Join the conversation and follow us on LinkedIn
[linkedin.com/company/panametricscompany](https://www.linkedin.com/company/panametricscompany)

Copyright 2026 by Panametrics LLC. All rights reserved.

PANA108AN (07/2023)