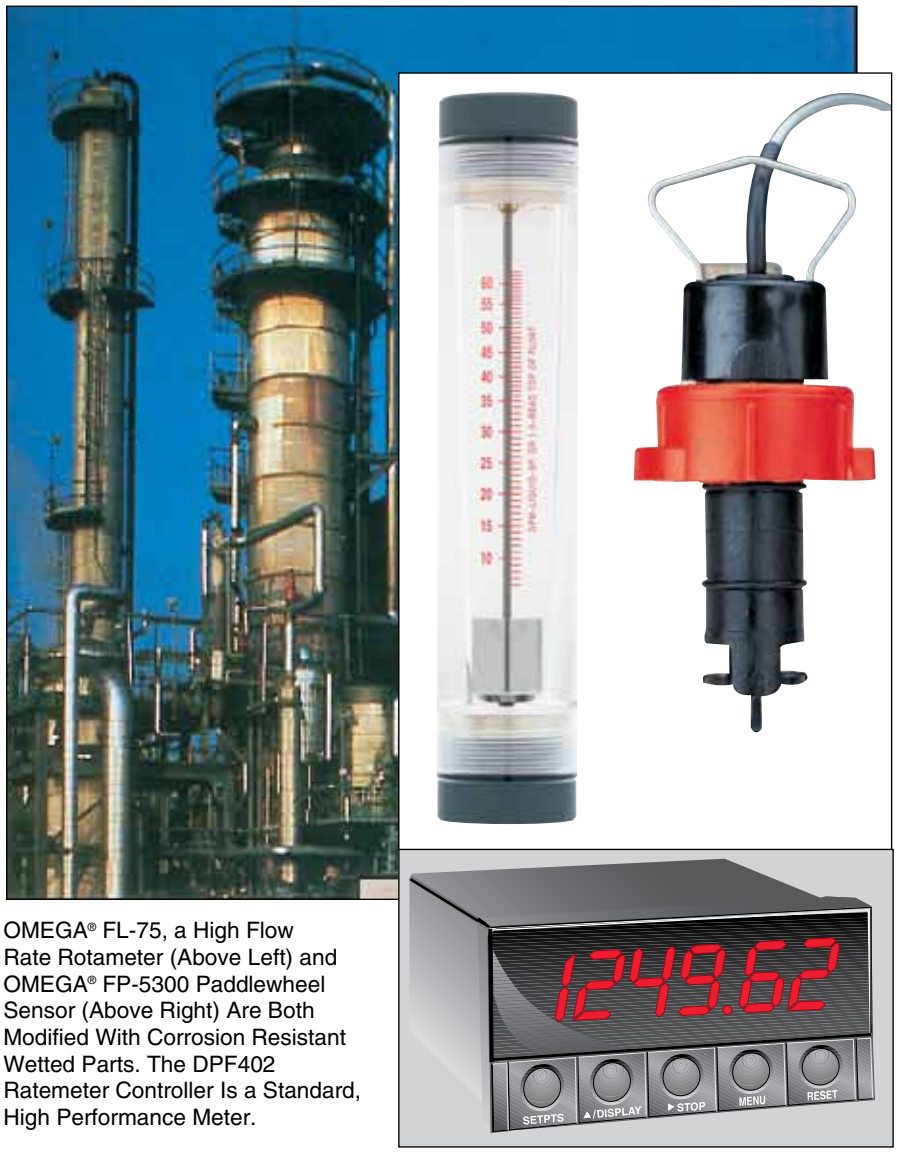
CUSTOM MODIFICATIONS

OMEGA Passes the Acid Test!

CUSTOM ENGINEERING LEVEL I



OMEGA® FL-75, a High Flow Rate Rotameter (Above Left) and OMEGA® FP-5300 Paddlewheel Sensor (Above Right) Are Both Modified With Corrosion Resistant Wetted Parts. The DPF402 Ratemeter Controller Is a Standard, High Performance Meter.

A CASE IN POINT

A German chemical plant is refurbishing its hydrochloric acid operations and requires a number of rotameters for local flow rate indication. Also required are flow transducers to send a signal to a remote batch controller to indicate flow rate and control batching operations.

PROBLEM

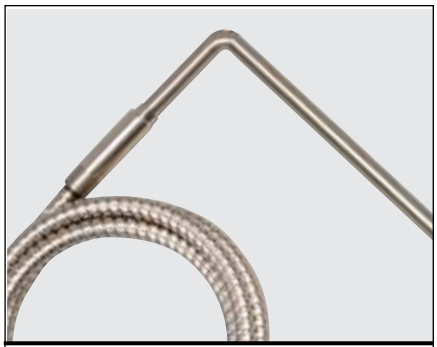
The hydrochloric acid is highly corrosive to many metals, particularly stainless steel. All-plastic construction is required.

OMEGA® SOLUTION

A modified OMEGA® FL-75, a high flow-rate acrylic tube rotameter is made by replacing the 316 SS internals with a polysulfone guide rod and a PFA float. A modified OMEGA® FP-5300 paddlewheel flow sensor is also used, after the titanium rotor pin is replaced with a PVDF pin. The low level frequency output signal from the FP-5300 is transmitted directly to an OMEGA® DPF402 ratemeter/totalizer/ batch controller. No additional signal conditioning is required.

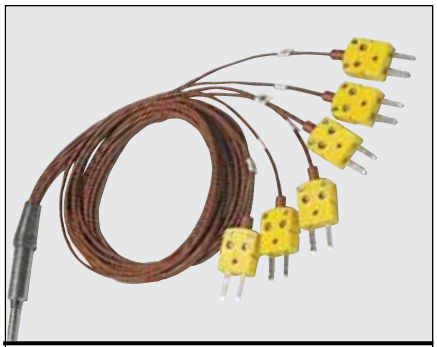
Customer orders 72 rotameters, 10 FP-5300-AP paddlewheel flowmeters, 10 FP-5305 ½" installation fittings, and 10 DPF402 batch controllers.

. . . If You Don't See What You're Looking For, Ask Us!



Right Angle RTD Probe with 304 Stainless Steel Thick Wall Tubing and Stainless Steel Armor Cable

Ceramic Coatings Provide High Temperature Chemical/Abrasion Resistance



Profile Probes Facilitate Temperature Measurement at Various Points in an Oven