

## Lime Mud Pre-Coat Filter Showers

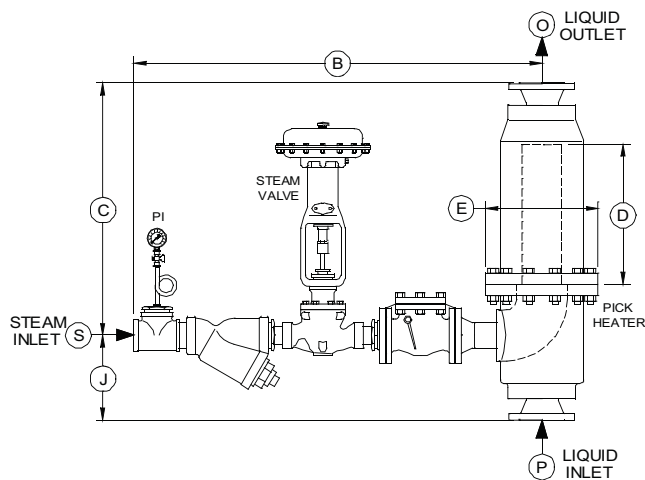
## Pulp & Paper Industry Case History

### Features and Benefits:

- ◆ Smooth, Stable Operation
- ◆ Precise Temperature Control
- ◆ Low Mechanical Shear
- ◆ Compact Design
- ◆ Complete Absorption of Steam within Heater Body

### Application:

A pulp mill located in Southern Georgia required 140°F wash water for the lime mud pre-coat filter. Located in the recausticizing area, the filter washes and dewateres lime prior to the lime kiln. The wash water provides both an efficient dilution wash of lime mud as well as serving to keep the filter clean, improving drainage. The customer replaced a venturi style heater for two main reasons: severe hammer to filter system piping and wide swings in discharge temperature.



### Process Conditions:

Water flow rate	150-400 GPM
Temperature rise	70°F
Discharge temperature	140°F
Steam pressure	150 PSIG
Water pressure	50 PSIG

### Solution:

**Pick 6X150-3 Constant Flow Heater**, 316 stainless steel construction. Normal liquid outlet assembly was deleted for easy installation and direct replacement within piping area of venturi heater.

STEAM VALVE				STEAM		LIQUID		
SIZE	TYPE	CLASS	MATL	PSIG	T(°F)	GPM	ΔT(°F)	PSIG
2"	EZ	THD	Cl	150	SAT	150-400	70	50
TEMP. CONTROLLER: Supplied by Customer								
<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>J</b>	<b>O</b>	<b>P</b>	<b>S</b>	
55.5"	34.3"	19.3"	15.5"	11.7"	4" 150# R/F FLANGE	4" 150# R/F FLANGE	3" NPT	