## In-line Flow Conditioning Plates

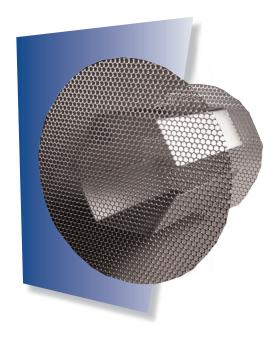
## **Features**

- Minimizes low profile irregularities caused by elbows, valves, expansions, reductions
- Significantly reduces upstream and downstream piping requirements
- Low pressure drop
- Available in sizes for 1" to 14" schedule 40 pipe (larger sizes contact factory)
- Rugged 316 ss construction
- Easy installation using customer supplied flanges



Built-in flow conditioning creates a uniform velocity profile in constrained applications





## **Description**

ierra Instruments' Flow Conditioning Plates
represent an economical solution to problems
associated with monitoring flow installations where
long, straight runs of piping are not available. The flow
conditioning element effectively eliminates velocity profile
distortions, swirl and temperature stratification in the gas
stream. The flow conditioner creates a uniform velocity
profile by means of two stainless steel perforated plates.
Designed to work in schedule 40 pipe ( other scheduals
contact factory) with 150# flanges, the front flow
conditioning screen is sandwiched between two 150#
flanges, along with two 1/8" gaskets (gaskets and flanges
are supplied by customer). The flange mounting bolts

The flow plates reduce upstream piping diameters to less than three diameters after most common flow disturbances. Extensive testing has demonstrated that this device virtually eliminates the effect of piping conditions with fewer upstream diameters than any other flow conditioning technique.

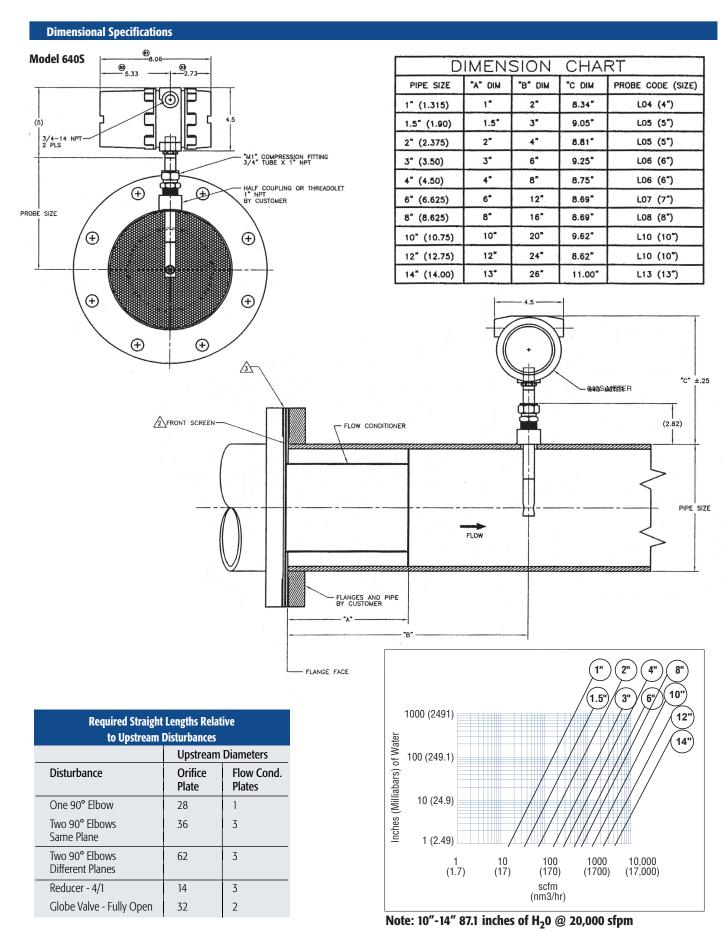
serve to center the screen in place.

Flow plates may be purchased separately for general flow conditioning or they may used with existing Sierra insertion meters. If used with existing meters, the meter MUST be calibrated with the flow conditioning plates in



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