

### Recommended Protective Screens for Kates Flow Rate Controllers

**For long lasting maintenance free operation, we recommend that a strainer or filter be installed immediately upstream of the Kates.**

Obviously the recommendation of screen size is a matter of judgment compromising:

- a. Operability. Removal of all particles will insure continuous operation at all times.
- b. The tolerable interval between cleaning. Removal of all particles may require screen so fine that required cleaning may be too costly.
- c. Pressure drop allowable. The ability of the Kates Flow Rate Controller to control flow with varying pressure may sometimes be used to advantage here.

The screen sizes listed are recommendations resulting from service experience. Obviously we cannot make operating guarantees because of the variety of fluid characteristics and the infinite number of combinations of particle size and nature encountered in practice. To obtain satisfactory results with a Kates Flow Rate Controller, the particles must be nonabrasive, non-fibrous, and must not adhere or coat on the controller internal parts, nor have a tendency to settle out of solution.

#### **Screen Rating**

<u>Controller Size</u>	<u>Strainer/ Mesh</u>	<u>Filter/ Micron</u>
1/8", 1/4", 3/8", 1/2"	10 Micron Sintered	10
3/4", 1"	200	75
1-1/2", 2", 3"	150	100
4"	100	150