



## **Flow Optimizers, LLC**

### **Specification**

#### **Flanged Flow Straightening Insert for pipe**

1. Flow Straightening insert to provide vaned flow conditioning helping to straighten flow.
2. Provide Insert design approved by a Nationally recognized Hydraulics Testing Laboratory.
3. Provide a certified drawing for Insert for review with pump submittal
4. Flow Straightening Insert minimum design criteria:
  - a. Minimum Insert length: Equal to grid length x three.
  - b. Grid spacing:
    - i. Varies based on diameter & maximum flow rate
      1. Maintain 7 feet/second or less.
      2. Head loss Coefficient K: 0.70
  - c. Construction:
    - i. Material: 316L stainless steel
    - ii. Thickness: to be determined by Design Engineer
    - iii. Flange bolt hole drilling pattern to ASME B16.5 Class 150

Manufacturer: Flow Optimizers, LLC. or Engineer Approved Equal