



Flow Optimizers, LLC

Specification

Vaned Flow Conditioning Baskets

1. Pump manufacturer to provide vaned flow conditioning baskets as indicated for all vertical turbine and axial flow pumps with intake bells 11 inch [279 mm] and larger.
2. Provide basket design approved by a nationally recognized Hydraulics Testing Laboratory.
3. Provide a certified drawing for all baskets for review with pump submittal
4. Basket minimum design criteria:
 - a. Minimum basket clearance from intake floor: 4 inches [100 mm]
 - b. Minimum basket height: Equal to intake bell outside diameter (D) divided by three (D/3).
 - c. Vane spacing:
 - i. Varies based on diameter
 - ii. Not to exceed 15 degrees.
 - d. Bottom grating depth to spacing aspect ratio: 1:1 and minimum of 75% open area
 - e. Headloss Coefficient K: 0.70
 - f. Material: Type 316L stainless steel
5. Pump manufacturer to coordinate the method of securing the basket to the pump intake bell
6. Manufacturer: Flow Optimizers, LLC. or equal

Sizes larger than 18 inch must be modeled by Nationally Recognized Hydraulics Laboratory.