

Specification

Inlet Floor Cone

1. Pump manufacturer to provide Inlet Floor Cone for each pump with suctions 16 inch [400 mm] and larger.
 - a. Provide a certified drawing including dimensions, weight, welding requirements, material designations, material thicknesses and flange details for review with pump submittal.
2. Provide Inlet Floor Cone design approved by a Nationally recognized Hydraulics Testing Laboratory.
 - a. For pump sizes larger than 16 inch (400 mm) provide a design based on physical hydraulic modeling by a Nationally Recognized Hydraulics Laboratory
3. Design Criteria:
 - a. Diameter:
 - b. Height:
 - c. Triangles: 8
 - d. Straightening vanes: 4
 - e. Baseplate:
 - f. Anchor Bolt Size & location:
 - i. Location: 4 holes in corners – 2 inches from edge
 - ii. Holes: 9/16" diameter to accommodate 1/2" inch Anchor
4. Materials:
 - a. A572 Grade 50 Carbon Steel Baseplate, minimum 1/4" thick steel plate
 - b. A572 Grade 50 Carbon Steel Cone, minimum 1/4" inch carbon steel plate
5. Finish: 2-part Epoxy coating
 - a. TNEMEC Perma-Glaze 435 (two coats @ 15 to 20 mils per coat)
 - b. Surface preparation: SSPC-SP5/NACE 1 White Metal Blast Cleaning
6. Manufacturers:
 - a. Flow Optimizers, LLC.
 - b. Engineer Approved Equal

