



GRUNDFOS®



Typical Specification for Redi-Flo4, 4" Environmental Submersible Pumps and Motors

1.0 Scope

- 1.1 The submersible pump and motor shall be designed for continuous submerged operation.
- 1.2 The pump shall be driven by a motor attached below the pump section.
- 1.3 The pump unit shall be Grundfos Redi-Flo pump model _____ or equal.

2.0 System Capacity and Electrical Requirements

- 2.1 The pump shall have a capacity of _____ U.S. GPM when operated against a total dynamic head of _____ feet of water.
- 2.2 The motor shall be _____ horsepower, rated for _____ volts, _____ phase, _____ hertz.
- 2.3 The cable between the motor and the above ground connection shall be at least _____ feet in length.

3.0 Pump Design and Materials of Construction

- 3.1 There shall be a built-in integral check valve made of 300 Series stainless steel. The check valve seat shall be Teflon® with a 300 Series stainless steel insert.
- 3.2 The pump bowls, impellers, guide vanes and filter screen shall be 300 Series stainless steel.
- 3.3 Each impeller shall have a Teflon® seal ring around its eye or skirt to reduce hydraulic losses.
- 3.4 There shall be a Teflon® shaft bearing located either above or below each impeller.
- 3.5 A 300 Series stainless steel filter screen shall be included as part of the suction inlet assembly.
- 3.6 A 300 Series stainless steel priming inducer shall be included to provide lubricating flow and to prime the pump should the fluid pumping level fall below the first impeller.
- 3.7 The stainless steel nameplates shall be affixed to the pump. The pump model shall be stamped into the nameplate. No inks or dyes shall be used.

4.0 Motor Design and Materials of Construction

- 4.1 The motor shall be a squirrel-cage induction motor designed for submersible operation in conformance with NEMA standards.
- 4.2 All materials in contact with the pumped fluids shall be 300 Series stainless steel or Viton®.
- 4.3 The motor shall not use any oils or greases for lubrication of bearings.
- 4.4 A flexible Viton® diaphragm shall be provided to permit expansion and contraction of the internal motor lubricating and cooling fluid.
- 4.5 The motor shaft seal shall be constructed of Viton®.
- 4.6 A sand slinger made of Viton® shall be included.

5.0 Motor Cable Design and Materials of Construction

- 5.1 The cable shall be continuous with no splices.
- 5.2 The connector boot shall be constructed of Viton®. The connector shall be constructed of 300 Series stainless steel. The motor wire shall be AWG12 with Teflon® insulation.