Cuvo Pumping Solutions, Inc.

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Typical Specification for Redi-Flo3, 3" Environmental Submersible Pumps and Motors

1.0 Scope

1.1 The submersible pump and motor shall be designed for continuous submerged operation.
1.2 A motor attached below the pump end section shall drive the pump.
1.3 The pump unit shall be a Grundfos Redi-Flo3 pump model _____as supplied by **Cuvo Pumping Solutions, Inc.**.

2.0 System Capacity and Electrical Requirements

2.1 The pump shall have a capacity of ___ U.S. GPM when operated at a Total Dynamic Head (TDH) from ____feet of water (specific gravity of 1.0).
2.2 The motor shall be _____ horsepower, rated for _____ volts, _____ phase, and _____ hertz.
2.3 The motor shall have a Power Factor (PF) = 1.
2.4 The power cable between the motor and the above ground connection shall be approximately ____feet in length. (Actual length to be determined.)

3.0 Pump Design and Materials of Construction

3.1 There shall be an integral check valve made of 316 SS, PVDF and Viton materials or equivalent.
3.2 The pump chambers, impellers, guide vanes and seal rings shall be made of PVDF.
3.3 Each impeller shall have an individual Tungsten-Carbide axial bearing.
3.4 The pump model shall be stamped into the pump. No inks or dyes shall be used.

4.0 Motor Design and Materials of Construction

4.1 The motor shall be a high efficiency permanent-magnet motor designed for submersible operation in conformance with NEMA Standards.
4.2 The motor shall have integrated variable speed capability.
4.3 Motor shall have integrated dry-run, overvoltage, undervoltage, overload, and overtemperature protection.
4.4 Motor metal materials of construction shall use 316 SS.

5.0 Motor Power Cable Design and Materials of Construction

5.1 The power cable shall be _____continuous with no splices
5.2 The motor connector cap shall be constructed of PVDF. The motor wire shall be AWG12 with Tefzel insulation.