



PRODUCT SPECIFICATION: Vertical Multi-stage Pump

Pump shall be of vertical multi-stage close-coupled motor driven design with pump motor type of Totally Enclosed Fan Cooled. Pump motor shall be designed for continuous duty and capable of thrust and duty loads required by vertical multi-stage pump. Motor shall be _____ phase, 60 Hz, and have a nameplate voltage duty rating of _____ volts as stated by motor manufacturer.

Pump shall be suitable for continuous duty at a operating condition point of _____ TDH (total dynamic head) at a flow rate of _____ GPM (U.S. gallons per minute) and operate continuously at a brake horsepower of no more than _____ BHP (brake horsepower) and an overall pump efficiency of _____ % (percent) at thus stated design point. Pump shall require no more than _____ NPSHR (net positive suction head required) at design point specified above. Pump shall not have a shut off pressure in excess of _____ psi (pounds per square inch), and shall be suitable for continuous duty at a minimum flow rate of _____ GPM (U.S. gallons per minute).

Pump Inlet Port and Discharge Port shall be _____ inches and shall be deemed by pump manufacturer as suitable for continuous duty at above head and flow design requirement stated. Inlet and Discharge ports may be of ANSI Flange 125# or NPT configuration. Pump shall be equipped with Priming Port and Pilot Vent device suitable for evacuating air and fluid from pump pumping chamber.

Pump base dimension shall be no greater than an overall width of _____ inches and an overall length of _____ inches. Overall pump and motor total height shall be no greater than _____ inches as measured from base of pump to top of pump motor when assembled. An addition of a minimum of _____ inches above the motor shall be allowed for removal of pump motor without interference of assembly or fixtures occurring above the pump.

Pump shaft construction shall be of AISI 431 stainless steel, whereas; pump impellers, diffuser chambers, and pump sleeve shall be of AISI 304, or AISI 316 stainless steel construction. Pump suction/discharge base bracket may be of either; Class 30 Cast Iron, AISI 304, or AISI 316 stainless steel construction. O-rings shall be of EPDM construction whereas stack wear rings shall be of Teflon® material. Pump mechanical seal shall be constructed of tungsten carbide rotating and stationary surfaces with EPDM O-rings and equipped with AISI 316 stainless steel upper and lower drivers and springs.