1.01 VACUUM INDUCTION SODIUM HYPOCHLORITE FEEDER

A. Manufacturer: SureWater Technologies, Inc., Model number MD22152-01.

B. Type: NSF Standard 50 listed, flow through chemical feed system manufactured for the purpose with output adjustable while in operation to maximum capacity of 1728 gallons per day sodium hypochlorite solution.

C. Adjustment: Equipment controls with readily accessible metering valve located above flow meter, feed rate control by dialing valve to desired gallon/liter per minute setting marked on flow meter.

D. Vacuum: Provide NSF Standard 61 listed ½" venturi of Kynar (PVDF) supplied with (2) 1 ¼" ball type union valves of schedule 80 polyvinyl chloride (PVC) with Viton (FKM) seal rings and (1) 0 – 60 PSI oil filled pressure gauge to be installed in chemical by-pass loop.

E. Solenoid Valve: Equip feeder with ½" Teflon (PTFE) Bellows type solenoid valve of polyvinyl chloride (PVC) body with Viton (FKM) seal and Fail-Dry safety feature. Attached 20 watt with 240 volt AC at 60 Hz electrical coil shall be capable of continuous and intermittent duty up to 2 million cycles and equipped with NEMA - 4 water and dust proof housing. Equip with 6', 16-gauge/3 wire power cord.

F. Feeder Materials: All parts and fittings shall be manufactured of chemical resistant materials. Mounting board shall be of 3/8" polyvinyl chloride (PVC). Mounting devices shall be of fiberglass (clamps, nuts and bolts) and PVC (channel and clicks). All other fasteners shall be of stainless steel (screws and lock nuts). Pipe shall be of schedule 40 clear polyvinyl chloride (PVC). All pipe fittings shall be of schedule 80 polyvinyl chloride (PVC).

1. Metering Valve: Shall be diaphragm type union valve of schedule 80 polyvinyl chloride (PVC) with Teflon (PTFE) and Viton (FKM) seals and Viton (FKM) seal rings.
2. Chlorine Shut Off Valve: Shall be ball type union valve of schedule 80 polyvinyl chloride (PVC) with Viton (FKM) seal rings.
3. Labcock Cleanout Valve: Equip feeder with ¼" ball type labcock valve of schedule 80 polyvinyl chloride (PVC) with Viton (FKM) seal rings.
4. Tubing: Provide 3/8"x1/2"x2' polyvinyl chloride (PVC) tubing with each feeder for attachment to labcock cleanout valve.
5. Y-Strainer: Equip feeder with ½" y-strainer of schedule 80 clear polyvinyl chloride (PVC) with polypropylene screen and Viton (FKM) seal ring.
6. Flow Meter: Equip feeder with ½" in-line flow meter of natural polysulfone and polyvinyl chloride (PVC) with Teflon (PTFE) float and stopper, anodized aluminum half unions, permanent dual scale silk screen markings (gallons and liters per minute from 0.1 – 1.2), and Viton (FKM) seal rings.

G. Installation: Install material and equipment as complete, convenient, and economical systems, in conformance with drawings, approved submittals, and requirements specified.