PART 1 - GENERAL

1.1 SUMMARY

A. Section includes chemical pot feeder for closed loop treatment.

1.2 REFERENCES

A. ASME (ANSI/American Society of Mechanical Engineers) - Boilers and Pressure Vessels Code.
B. Section 01 33 00 Submittal Procedures
C. Section 01 91 00 Commissioning
D. Section 23 05 00 Common Work Results for HVAC
E. Section 23 05 23 General Duty Valves
F. Section 23 05 29 Hangers and Supports for HVAC Piping and Equipment
G. Section 23 20 00 HVAC Piping

1.3 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
B. Shop Drawings: Indicate dimensions, locations, and size of taps, support frame.
C. Product Data: Submit performance data.
D. Test Reports: Indicate shop test reports of tube bundle pressure tests.
E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.4 CLOSEOUT SUBMITTALS

A. Section 01 77 00 – Closeout Procedures: Closeout submittals.
B. Operation and Maintenance Data: Submit start-up and shut down instructions, assembly drawings, and spare parts lists.
1.5 QUALITY ASSURANCE
   A. Perform Work in accordance with applicable codes and laws as well as the Stanford Facilities Design Guidelines and all Stanford University Contract documents.
   B. Maintain one copy of each document on site.

1.6 QUALIFICATIONS
   A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years experience.
   B. Installer: Company specializing in performing work of this section with minimum three years documented experience approved by the Project Manager.

1.7 PRE-INSTALLATION MEETING
   A. Convene minimum one week prior to commencing work of this section.

1.8 DELIVERY, STORAGE, AND HANDLING
   A. Store and protect equipment.
   B. Accept chemical pot feeder on site in factory protective packaging. Inspect for damage.
   C. Protect entry of foreign material into openings with temporary caps.

1.9 FIELD MEASUREMENTS
   A. Verify field measurements prior to fabrication.

1.10 WARRANTY
   A. Section 01 77 00 – Closeout Procedures: Product warranties and product bonds.
   B. Provide five year manufacturer warranty for heat exchangers.

1.11 EXTRA MATERIALS
   A. Section 01 77 00 – Closeout Procedures: Spare parts and maintenance products.
   B. Supply two sets of replacement gaskets.

**PART 2 - PRODUCTS**

2.1 CHEMICAL POT FEEDER
   A. Chemical pot feeder for closed loop treatment
1. Pot feeder shall be five gallon or appropriately sized unit to meet system design requirements.
2. The feeder shell shall be constructed of 11-gauge steel minimum for 2 gallons unit and 10-gauge steel minimum for 5 gallons and larger unit. Tank heads shall be a minimum of 11-gauge steel for 2 gallons unit and a 9-gauge steel for 5 gallons unit. The pot feeder shall be rated at 200 PSI and to 200F.
3. The pot feeder shall have a wide mouth, 3-1/2” opening or provide chemical refill port with funnel.
4. Provide bottom drain on unit or drain port for service and testing.
5. The chemical treatment feeder shall be provided with legs or pedestals to elevate the feeder off the floor. The legs shall have holes to allow mounting by anchor bolts.
6. Provide filter for side stream filtering
   a. Bag filter: The pot feeder shall be provided with a (5, 20 or 50) micron filter fully supported by a stainless-steel filter basket.
   b. Cartridge filter: The pot feeder shall be provided with a (5 or 20) micron filter.

**PART 3 - EXECUTION**

3.1 INSTALLATION

   A. Install work in accordance with applicable codes and laws as well as the Stanford Facilities Design Guidelines and all Stanford University Contract documents.

   B. Install with clearance to permit removal of tube bundle or plates with no disturbance to installed equipment and piping.

   C. Support chemical pot feeder on welded steel pipe and angle floor stand.


**END OF SECTION**