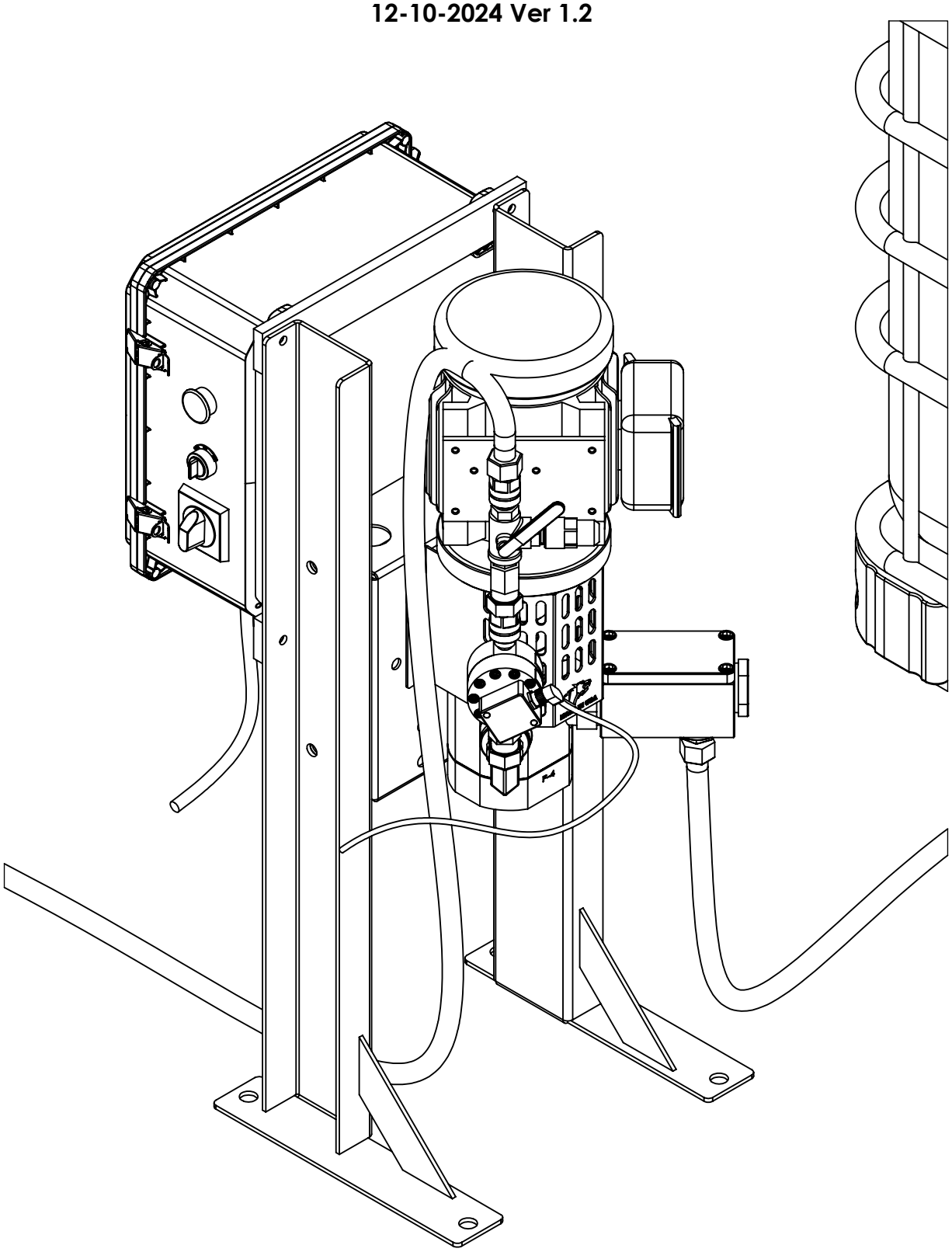
BearCat Pumps

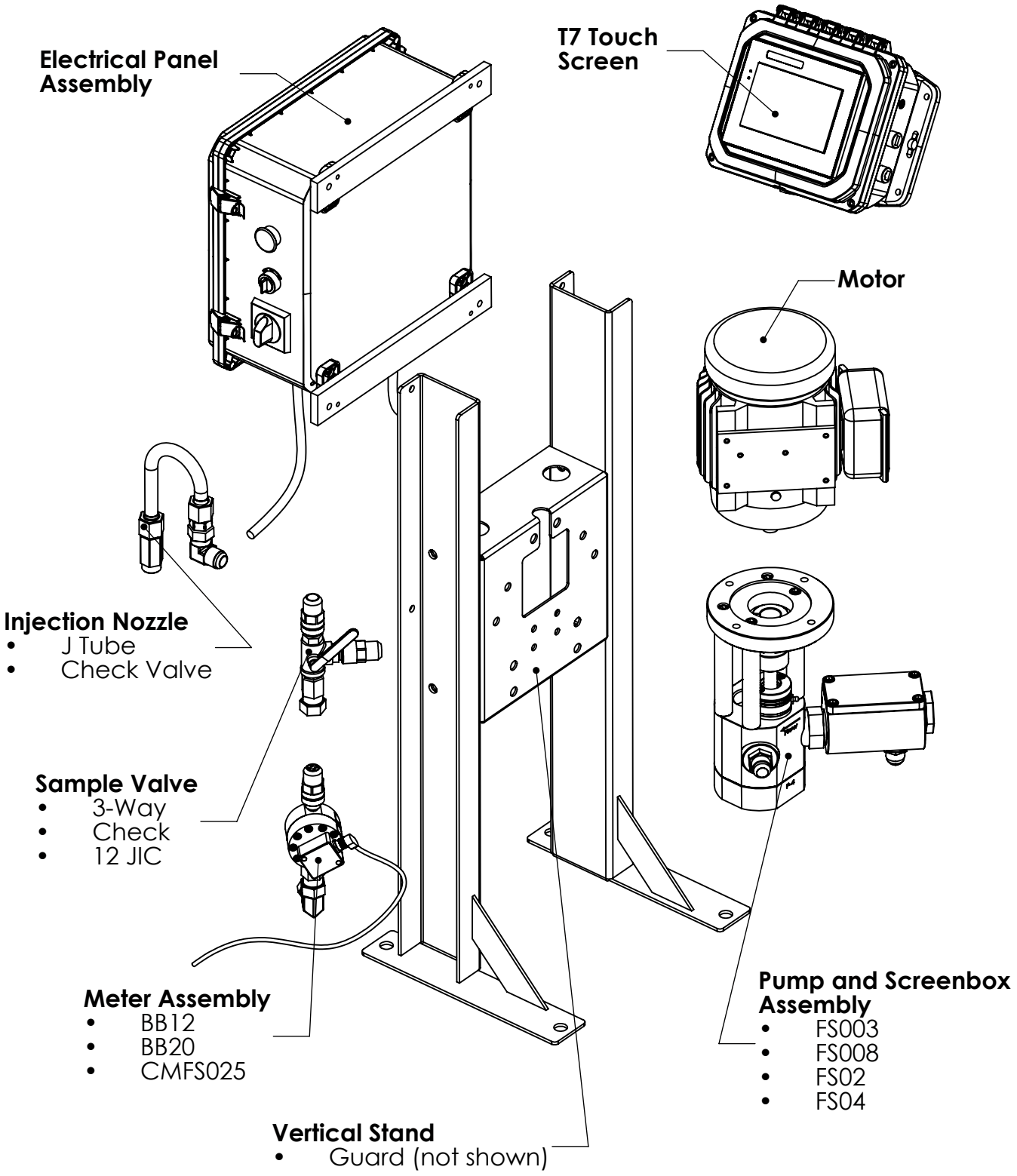
Additive Pump Manual

12-10-2024 Ver 1.2



www.bearcatpumps.com
623-587-1350

System Components



Building a Model Number

Shaft Plate
- FS = Steel
- FA = Aluminum
- RS = Rebuild, Steel

Displacement
- 003 = 0.003 Gal/Rev
- 008 = 0.008 Gal/Rev
- 02 = 0.02 Gal/Rev
- 04 = 0.04 Gal/Rev

Meter Assembly
- B12SS = PD, 0.005-0.8 GPM
- B20SS = PD, 0.02-2.0 GPM
- B30SS = PD, 0.1-7.0 GPM
- CMFS025 = MM Coriolis
- Z = No Meter

Mount Type
- M = Beam Mount
- V = Vertical Stand
- Z = No Mount

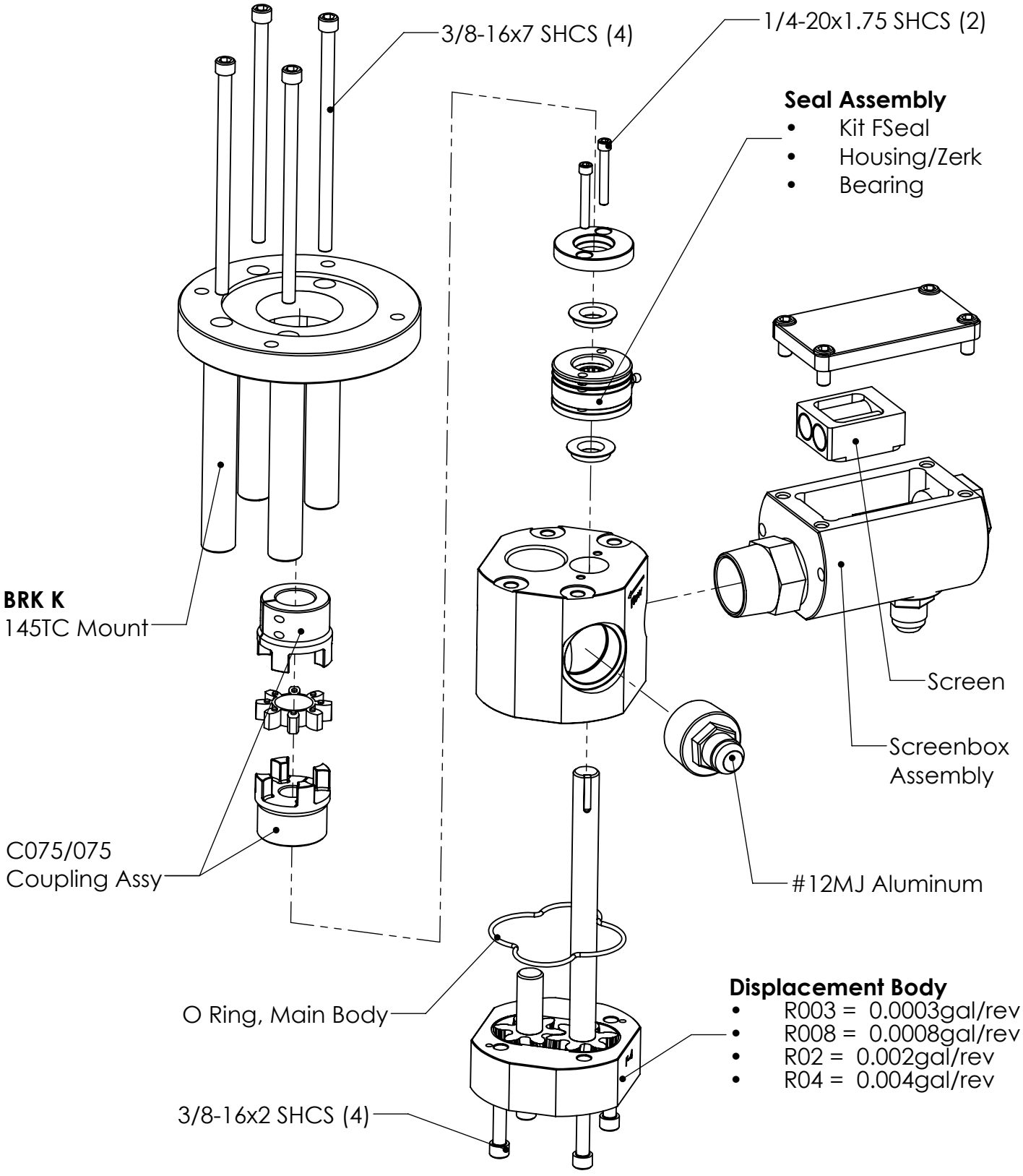
Panel (1HP VFD, 120V-1ph, E-STOP, HOA)
- P = Poly 14x14x8
- S = Steel 15x14x8
- Z = No Panel

HMI
- T4 = 4in Touch Screen (No Case)
- T7 = 7in Touch Screen, Data Logging, Polycase
- Z = No HMI

PLC
- A= PLC w/ 4/2-mA I/O
- Z = No PLC

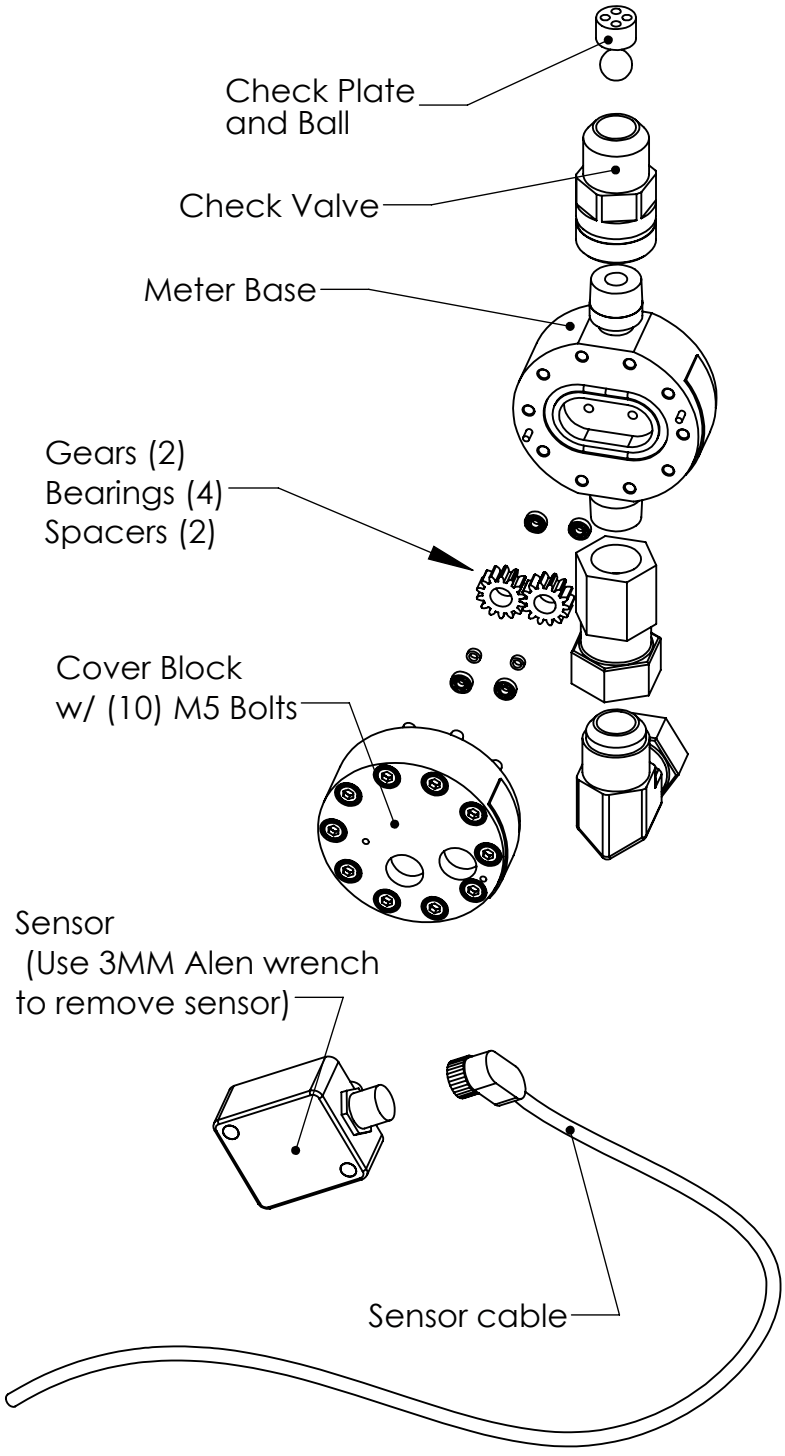
Option Items (one or more)
- I = Injection Assembly
- S = Sample Valve Assembly
- Z = NA

Pump Assembly

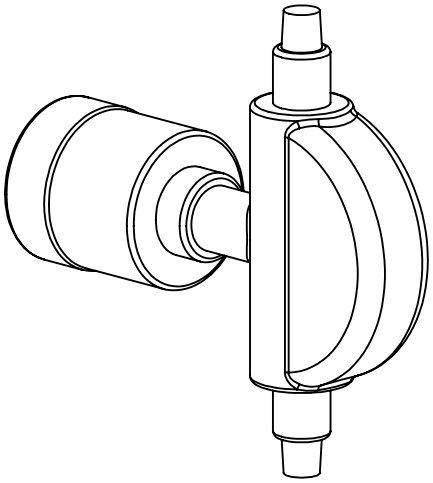


Meter Assembly

Meter Assembly
- BB12 (.005-.8gpm)
- BB20 (02-2.0gpm)
- BB30(.1-7gpm)

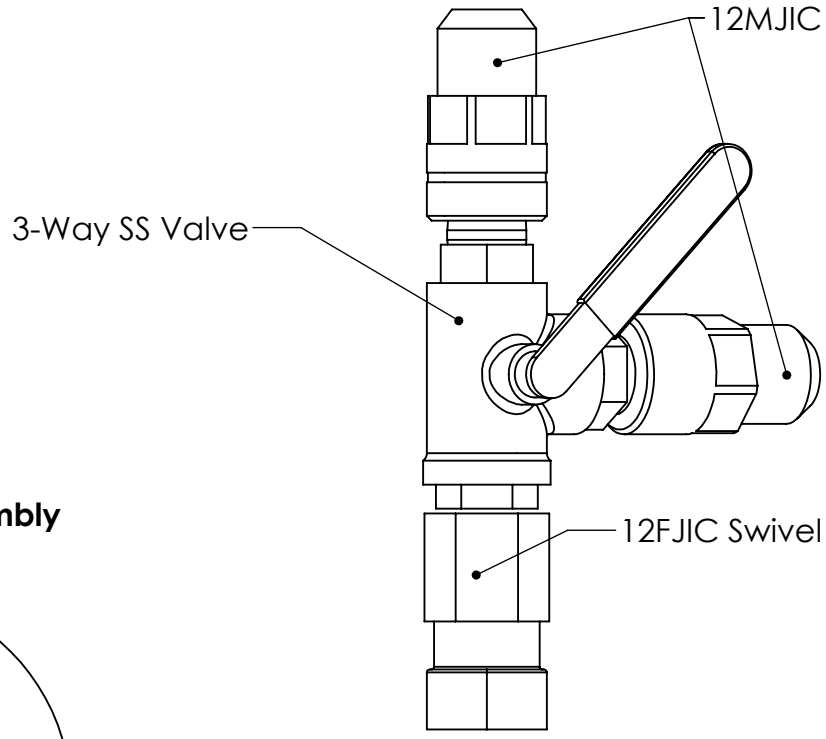


Coriolis Options
- CMFS025

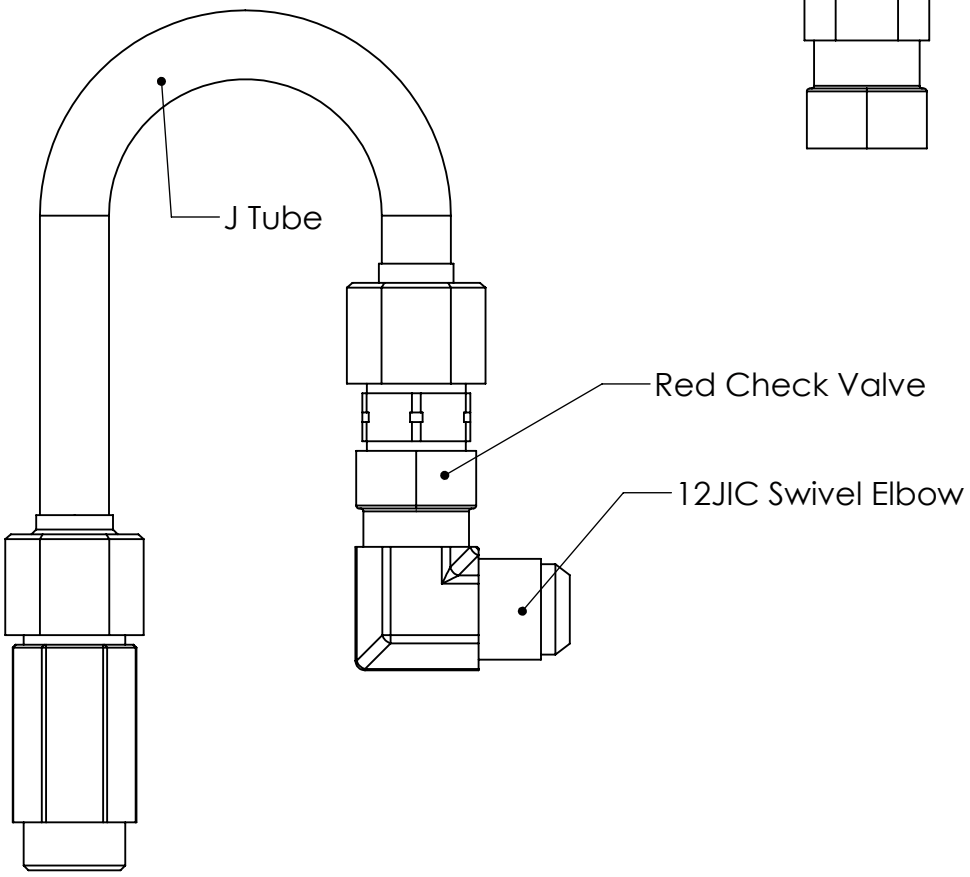


Accessories

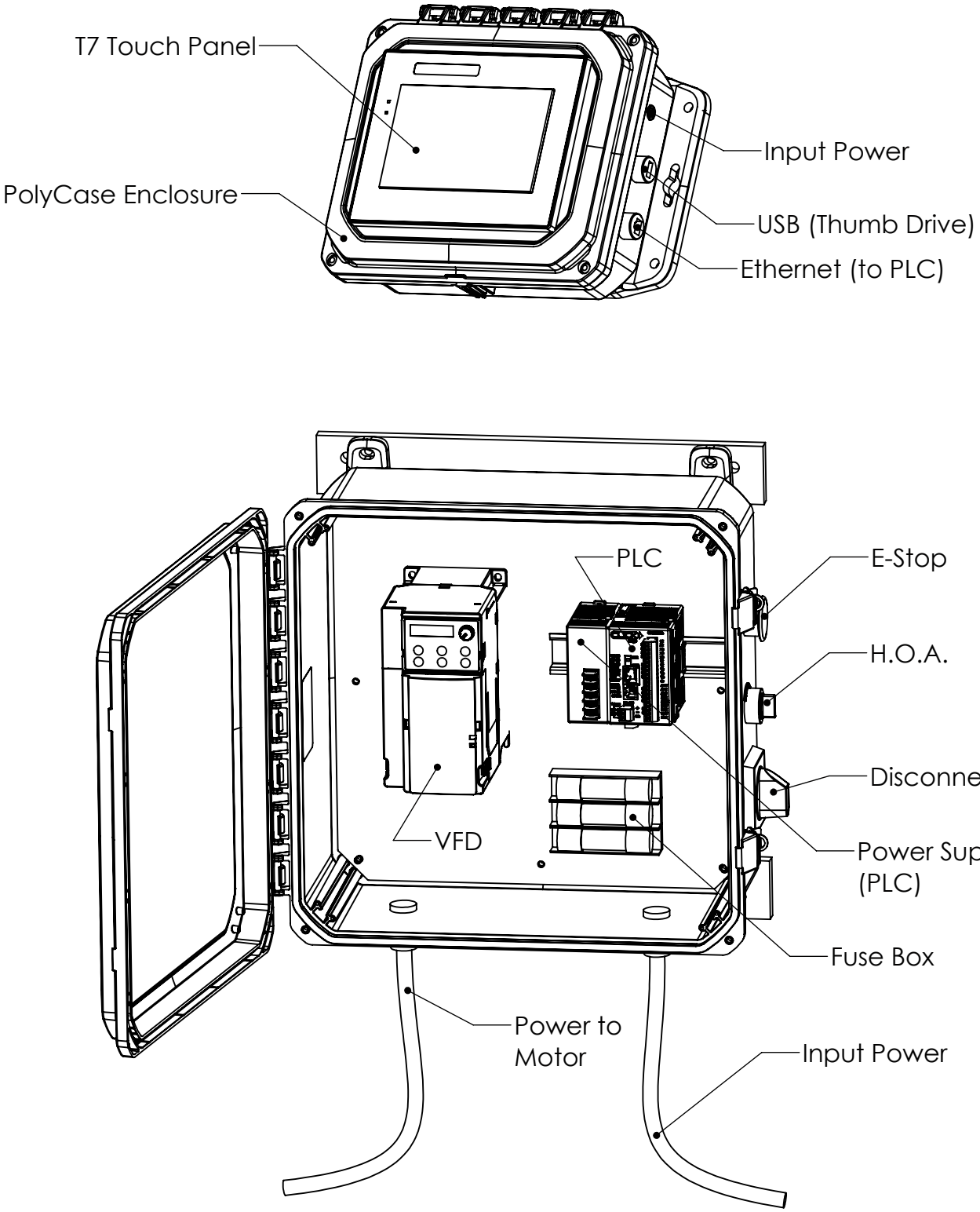
Sample Valve Assembly



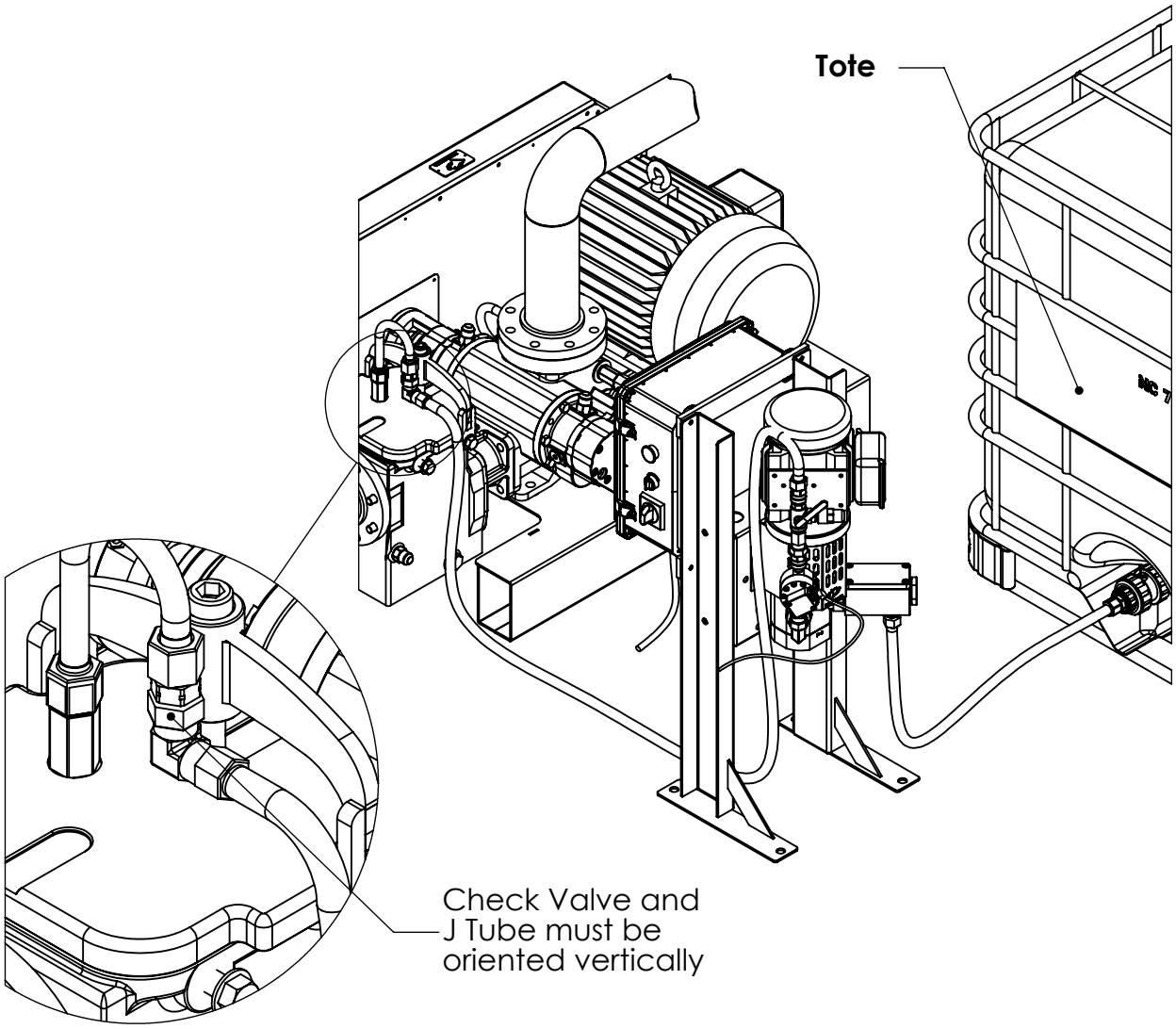
Injection Nozzle Assembly



Electrical Panel



System Set-up



Injection: The lid of the screen box is an optimal location for injection. This area is typically free of asphalt, making it a convenient and accessible point for the process.

Tote Placement: Position the tote in a readily accessible location to facilitate easy replacement or maintenance.

Hose: Utilize stainless steel hoses with JIC swivel ends. This design simplifies field installation and streamlines the flushing process during seasonal shutdowns.

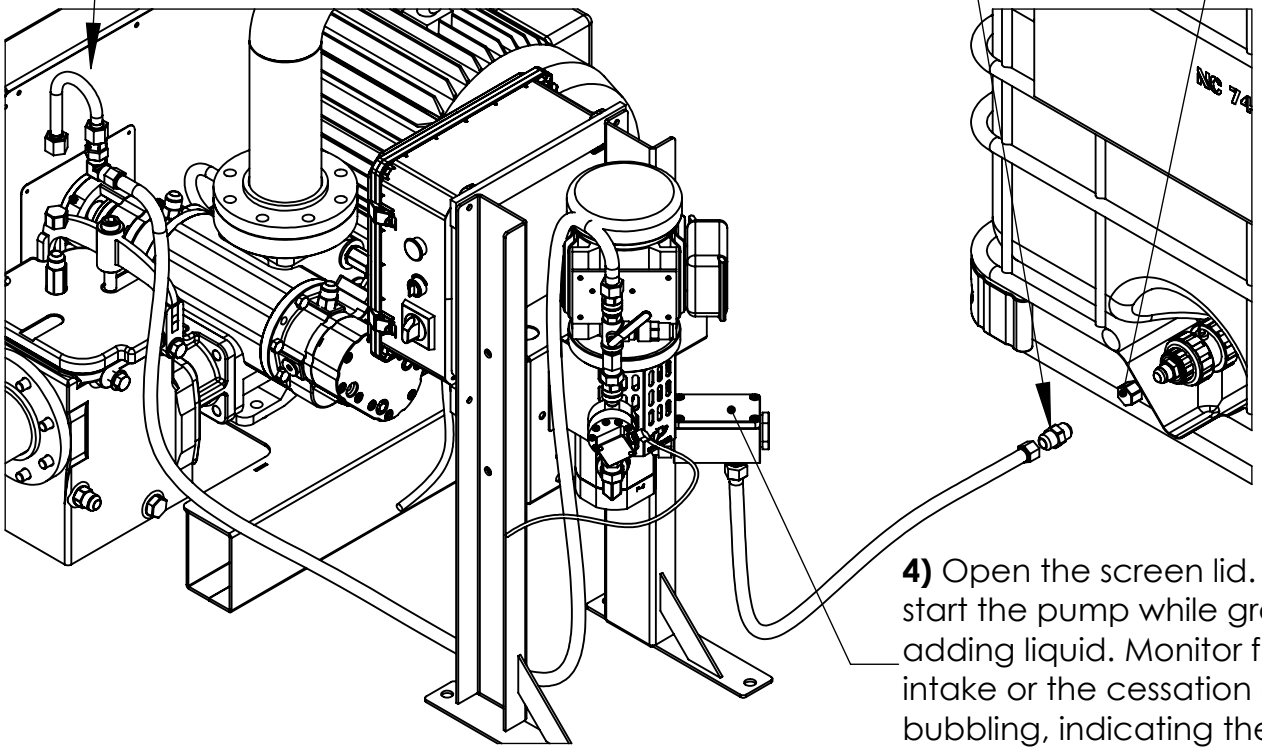
Pump Positioning: Ensure control wiring (Ethernet or signal cables) does not exceed a maximum distance of 300 feet.

Flushing Procedure

1) Turn off the Tote valve. Disconnect and drain the hose, then securely cap the Tote opening.

2) Detach the J-Tube at the injection port. Drain the hose and seal the injection port with a cap.

3) Connect the hose ends using a JIC coupler from the previous steps.



4) Open the screen lid. Slowly start the pump while gradually adding liquid. Monitor for rising intake or the cessation of bubbling, indicating the system is full.

5) Close the lid and run the pump at a moderate speed for 5–10 minutes to complete the flushing process.

Note: WD-40 can be used for flushing most anti-strips. However, exercise caution, as it may not be suitable for all systems.