

PSD Setup Checklist

Quick Start Guide for Precision Syringe Drives

Use this one-page checklist to ensure your Hamilton PSD is mechanically and electrically prepared for initialization.

- ☐ **Valve Seated and Aligned**
Ensure the valve shaft is fully engaged and alignment pins are in the faceplate holes with the syringe port pointing downward.
- ☐ **Valve Screws Secured**
Tighten mounting screws once the valve is flush against the faceplate to prevent leaks or misalignment during rotation.
- ☐ **Syringe Finger-Tightened**
Thread the syringe into the valve port by hand until snug. Do not use tools to avoid over-tightening and damaging the termination.
- ☐ **Plunger Button Seated**
Check that the syringe plunger button is properly nested inside the drive stem channel before securing the connection.
- ☐ **Plunger Thumbscrew Tightened**
Manually tighten the thumbscrew on the drive stem to lock the syringe plunger into the mechanism for precise movement.
- ☐ **DB-15 Cable Secured**
Plug in the power/comm cable and tighten the side jack screws. Requires 24V DC (min 1.5A). Supports RS-232, RS-485, or CAN.
- ☐ **Address Switch Set (0-F)**
Set the rotary switch based on your daisy chain. Single-pump setups should typically be set to Address 0.
- ☐ **DIP Switches Configured**
Set switches 1-8 based on your valve and baud rate. Example: For a standard Y-valve, set switches 4, 5, and 6 to OFF.

Important: Always consult your specific Hamilton PSD model manual for exact DIP switch settings and valve configurations before powering on the unit.

