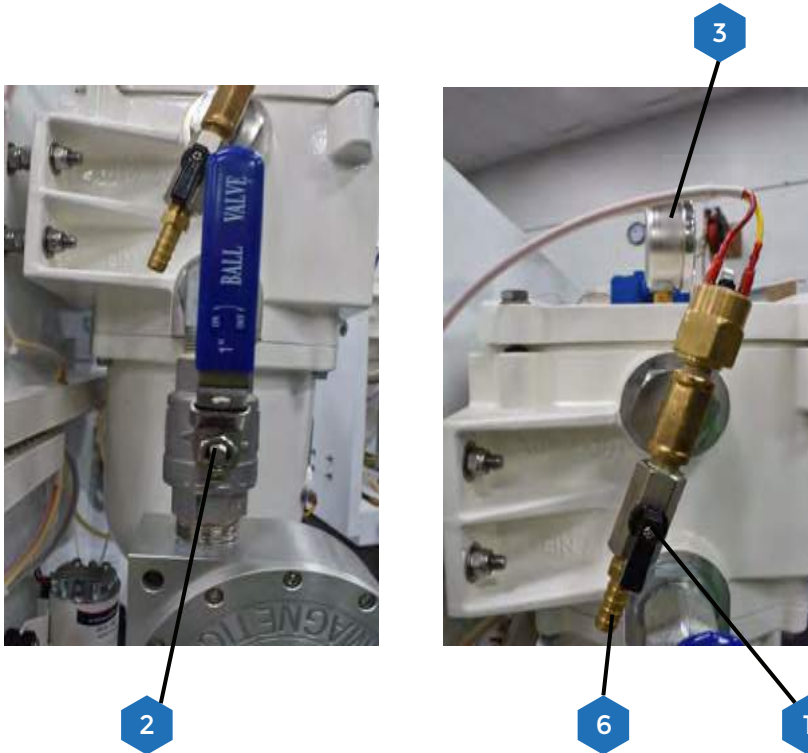




MANUAL ADDITIVE INJECTION SYSTEM

Injection of Additive into Fuel System During Operation

The Manual Additive Injection System consists of an injection point with an isolation ball valve to pull additive into a running Automated Fuel Polishing System.



1. Additive Injection Ball Valve
2. Main System Ball Valve
3. Vacuum Gauge
4. Additive Holding Container (not shown)
5. Additive Injection Hose (not shown)
6. Injection Port

**Configuration of Manual Additive Injection System components may change location and orientation depending on which system they are configured on.*

MANUAL OPERATION:

**Depending on the vertical and horizontal distance between the additive holding container and the Automated Fuel Polishing system, operation may vary.

**Manual Additive Injection System works with liquid additive only. Other types of fuel additive (other than AXI AFC products), should be cleared for proper operation with AXI International before use.

1. With Automated Fuel Polishing System running, place hose from injection port into additive holding container. Ensure sufficient additive within holding container and that hose reaches bottom of additive container.
2. Open Additive Injection Ball Valve to inject additive.
3. To start, or increase, flow of additive into the Automated Fuel Polishing System, slowly close the Automated Fuel Polishing System Main Ball valve creating a higher system vacuum (shown on vacuum gauge). Monitor pre-filter vacuum gauge, ensuring not to create a higher vacuum than the system set point (15inHG).
4. Monitor additive level in holding container for proper dosing level (with AXI AFC additives, overtreatment does not cause issues).
5. After additive injection is complete, close Additive Injection Ball Valve and close/properly dispose of additive holding container.
6. Return Automated Fuel Polishing System Main Ball Valve to its fully open position.



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