

eVOQUA

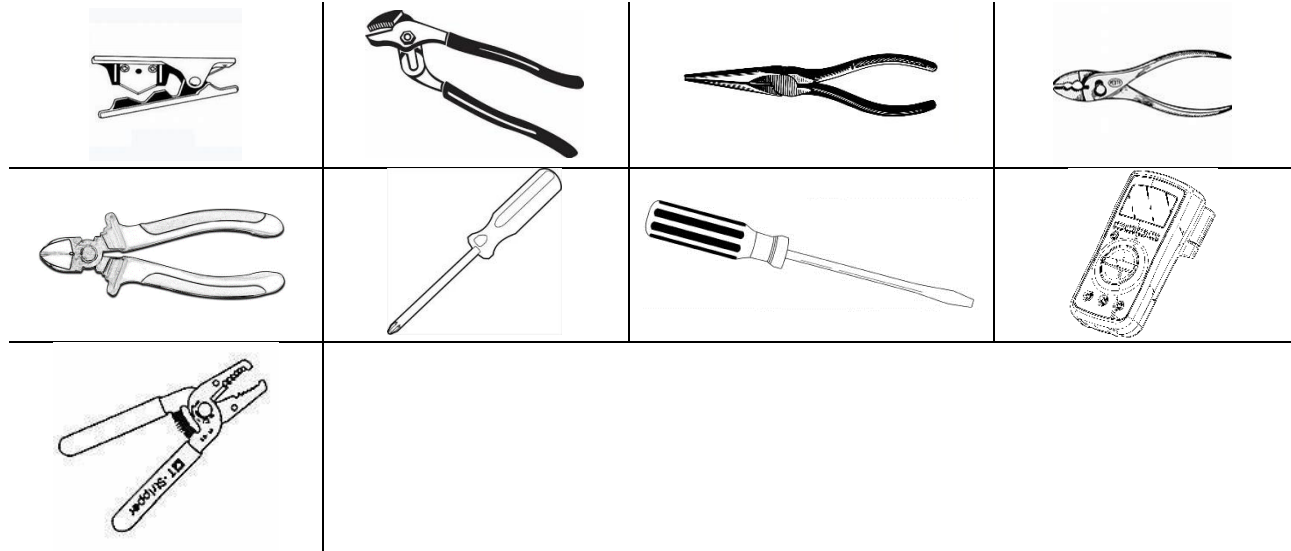
WATER TECHNOLOGIES

Chemical Feed Skid System

Quick Start Guide

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REQUIRED TOOLS



STARTUP GUIDANCE

TOXIC MATERIAL

Death or serious personal injury



Some chemicals react with water, which can lead to explosions. If your dosing medium can react with water, flush the Chem Feed Skid System with a medium that is compatible with both water and the dosing medium before startup.



Before startup, flush all tanks and pipes. An initial test can be made with water if the dosing medium is compatible with water.

NOTICE

The Chem Feed Skid System is tested for tightness in the factory. Some residual water may still be present in the fittings and pipes.

STEP 1 – Retighten all threaded joints and or connections. Ensure to not overtighten joints or connections. Tightening of connections should be in conformance to the type of connection being used.

STEP 2 – Check the tightness of the entire Chem Feed Skid System including all piping.

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Failing to ensure that all threaded joints or connections are tight and free of leaks could result in a loss of primary containment of a hazardous chemical.

STEP 3 – Check the electrical wiring and power supply. Verify that there are no open electrical connections and that all connections are lug tight.

Ensure that there are no frayed wires, cut rubber shielding, etc.

Preventing arc flashing and other potential arcing is the main consideration. Electrical installation should be in conformance with national, regional and local regulations.

STEP 4 – If installed in a suction lift application, install the inlet line with a foot valve in the dosing tank. Install the inlet line with a continuous upward slope towards the dosing pump.

STEP 5 – **OPEN** the isolating valves for the dosing pump. If two pumps exist, **ONLY OPEN** the valves to the pump that is going to be placed into service and primed.

STEP 6 – Vent the pump. For details on venting the dosing pump, see the “**installation and operating instructions**” for the dosing pump.

Optional procedure for venting a dosing pump via the sample or bleed valve:

- a. Add a hose to the sample or bleed valve that directs the medium to a drain or back to the dosing tank. If going to a drain, the drain must be an acceptable drain for the medium being used. Check with Environmental Health and Safety department prior to putting the medium to drain. **DO NOT** remove the bleed hose.
- b. **OPEN** the sample or bleed valve.
- c. **START** the pump and continue pumping until medium flows out of the sample or bleed valve. See the chemical pump instruction manual on how to start the pump.
- d. **STOP** the pump and close the sample or bleed valve. The hose can either be removed or stay.

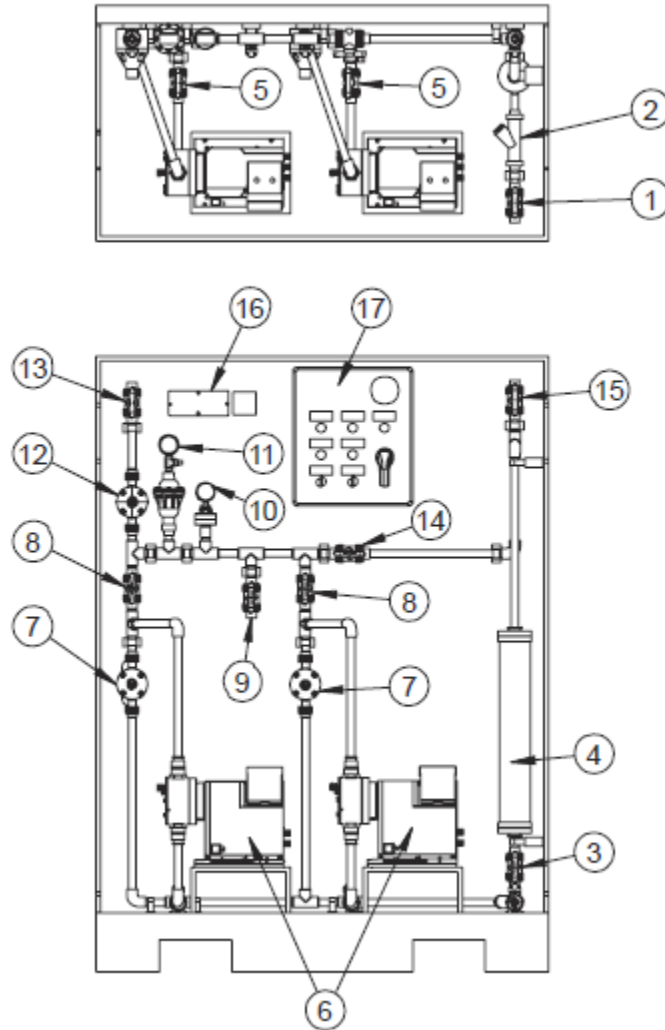
STEP 7 – Check the proper interaction of all electronic signal accessories such as leakage detection, level switch, alarm relay, start/stop, analog or pulse signal with the controller of the installation.

STEP 8 – Adjust the settings of the pressure relief valve, back pressure valve and pulsation dampener (will need a Schrader valve and air supply to properly set the dampener) as required for the application. See the manufacturer's instructions for further detail.

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STEP 9 – Ensure that the required amount of chemical is being injected by wet testing and or using the calibration column to verify injection rate.



POS.	Component	POS.	Component
1	Inlet isolation valve	10	Pressure gauge with diaphragm gauge guard
2	Y-strainer	11	Pulsation dampener
3	Calibration column valve	12	Back pressure valve
4	Calibration column	13	Outlet isolation valve
5	Pump inlet isolation valve	14	Isolation valve
6	Dosing pump	15	Retrun to tank valve
7	Pressure relief valve	16	Nameplate
8	Pump outlet isolating valve	17	Junction box of control panel (optional)
9	Bleed valve		