

# Lafferty Equipment Manufacturing, Inc. Installation & Operation Instructions

Model # 909900-MCSP · Single Dosing Panel With Mixing Chamber & Sample Port (Injector NOT Included)

## REQUIREMENTS

### Water

Temperature	up to 104°F
Pressure	5-85 PSI
Flow	up to 14 GPM
Supply Line	3/4"

## OPTIONS

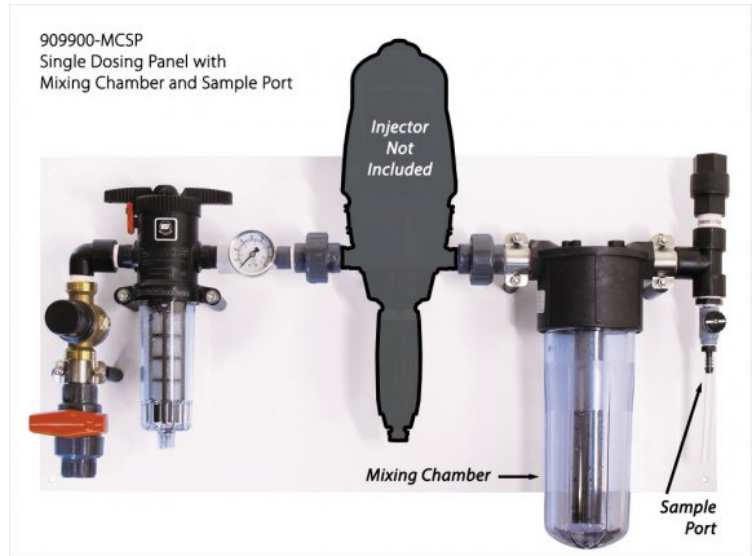
### Stainless Steel Jug Racks

2 ½ Gal. (8 ½" x 10 ½")	# 224210
5 Gallon (12" x 12") Round/Square	# 224215
5 Gallon, Round (Locking)	# 224216

### Alternate Check Valve (Viton Standard)

Check Valve, PP, 3/4" FF (EPDM Seal, Hast Spring)	# 491417
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Contact Us For Injector Availability



# Lafferty

EQUIPMENT MANUFACTURING INC.

[www.laffertyequipment.com](http://www.laffertyequipment.com)

501-851-2820

**WARNING! READ ALL  
INSTRUCTIONS BEFORE  
USING EQUIPMENT!**



## OVERVIEW

Water powered proportioners are water-driven, non-electrical, proportional dispensing systems that dilute chemical concentrates to required ratios and deliver RTU chemical solution to pump fed applicators. For convenience and ease of installation, the Single Dosing Panel features a polypropylene mounting plate and includes a water filter, water regulator, flow restrictor, pressure gauge, and a mounting bracket for an injector (available separately). Fully adjustable proportioners cover dilution ratios from 1:3000 up to 1:5 and a choice of Viton, Atlas or Kalrez seals are available for chemical compatibility. This model features an in-line mixing chamber and chemical sample port downstream from the injector.

## SAFETY & OPERATIONAL PRECAUTIONS

- **When connecting to a potable water supply follow all local codes for backflow prevention.**
- For proper performance do NOT modify in any way.
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye wear when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- Do not adjust water regulator over the maximum pressure or flow rate of the proportioner (refer to proportioner documentation)
- Follow the chemical manufacturer's safe handling instructions.
- NEVER mix chemicals without first consulting chemical manufacturer.

## TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

**If you are connecting to a potable water supply follow all local codes for backflow prevention.**

1. Mount the unit to a suitable surface above the chemical supply to prevent siphoning.
  2. Depending on the application connect the discharge hose or piping.
  3. Flush any new plumbing of debris before connecting water.
  4. Based on application adjust the water regulator to the desired pressure. Do NOT exceed the maximum incoming water pressure for the proportioner (refer to proportioner documentation).
1. Determine chemical ratio, adjust the ratio based on the proportioner instruction manual.
  2. Place the pick up tube into the chemical concentrate.

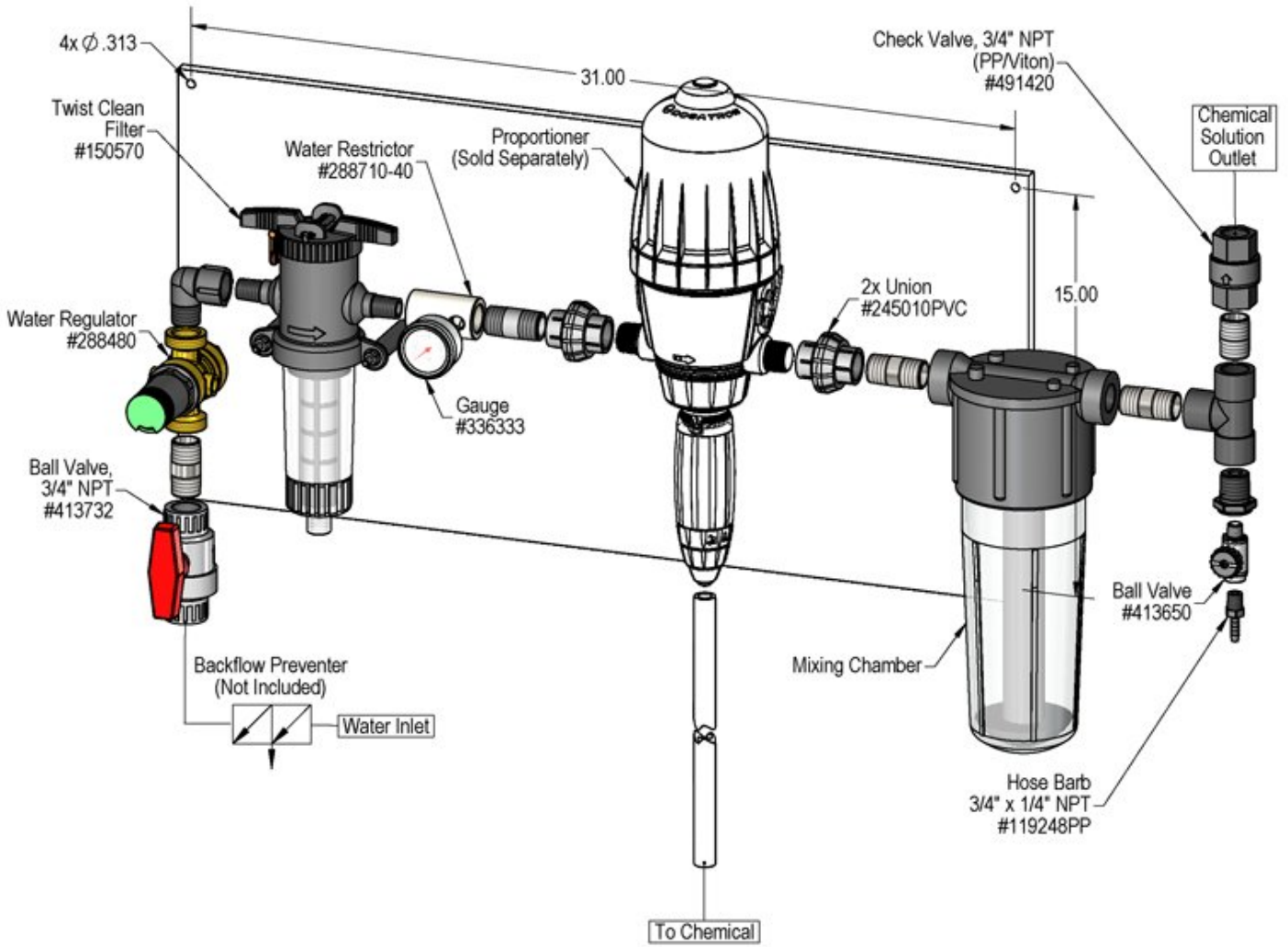
## TO OPERATE

You are now ready to operate the system, depending on the intended application.

1. Turn the inlet ball valve slightly until the pump primes then open fully to begin pumping.

### **Sample Port**

1. With proportioner in operation, place a container beneath hose barb on discharge side of Mixing Chamber.
2. Open ball valve to dispense required volume of diluted chemical for testing.
3. Validate dilution ratio using test strips, titration, etc. as recommended by chemical manufacturer.
4. Adjust proportioner dilution ratio accordingly.



## Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
See Injector Manual		

Possible Cause / Solution	
Startup	Maintenance

**PREVENTIVE MAINTENANCE:** When the unit will be out of service for extended periods, place chemical tube(s) in water and flush the chemical out of the unit to help prevent chemical from drying out and causing build-up. Periodically check and clean chemical strainer and replace if missing.

