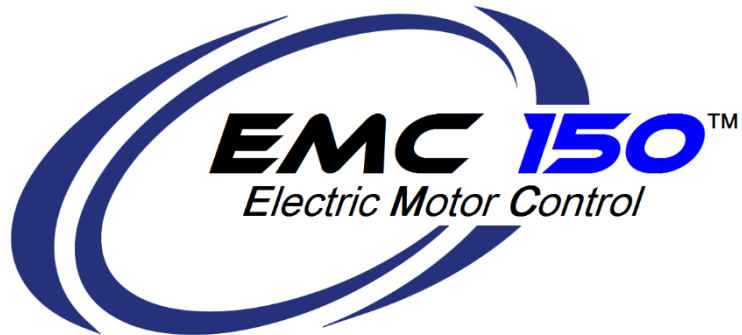


In-Furrow Kit Installation Manual



2015-2016

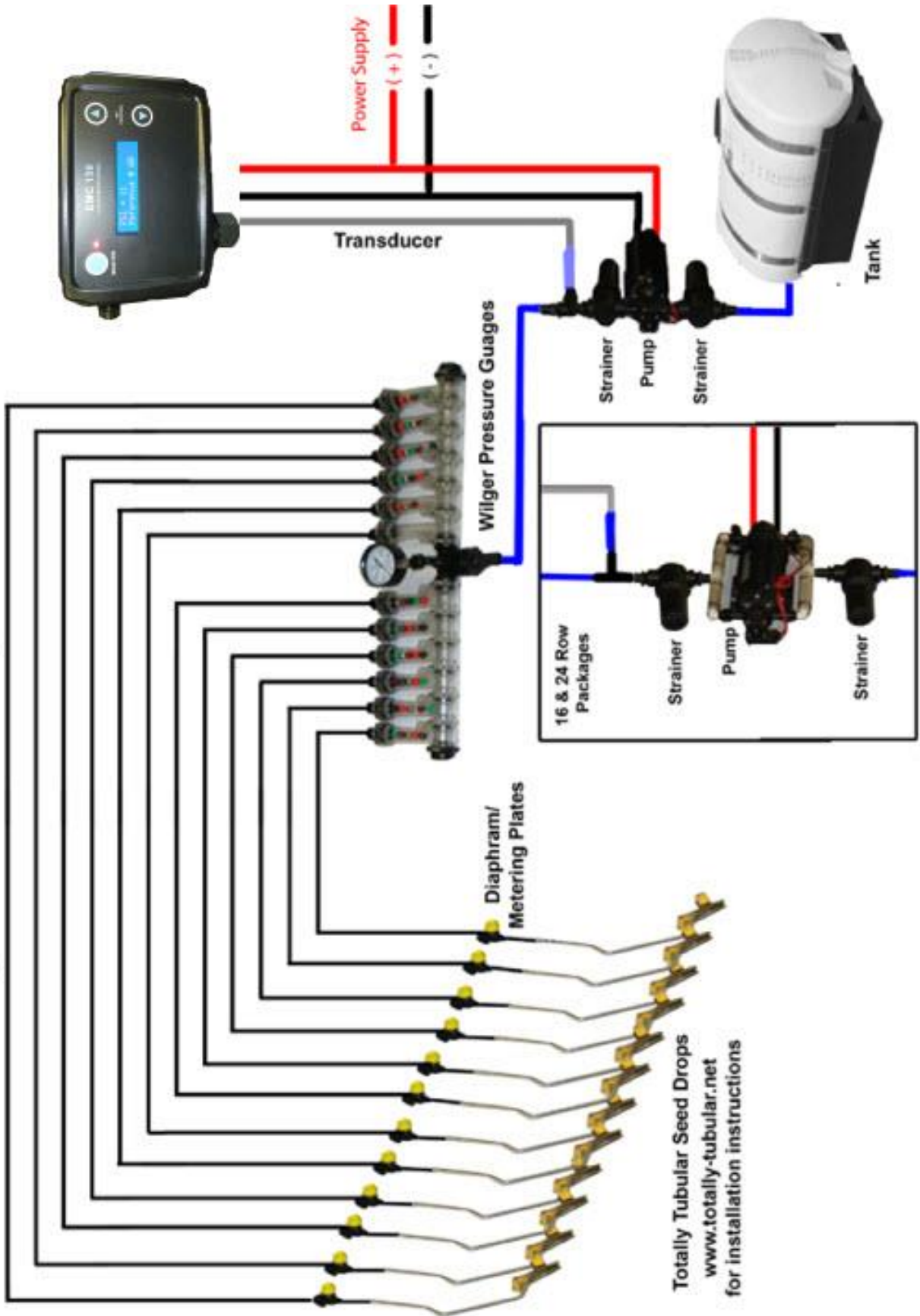


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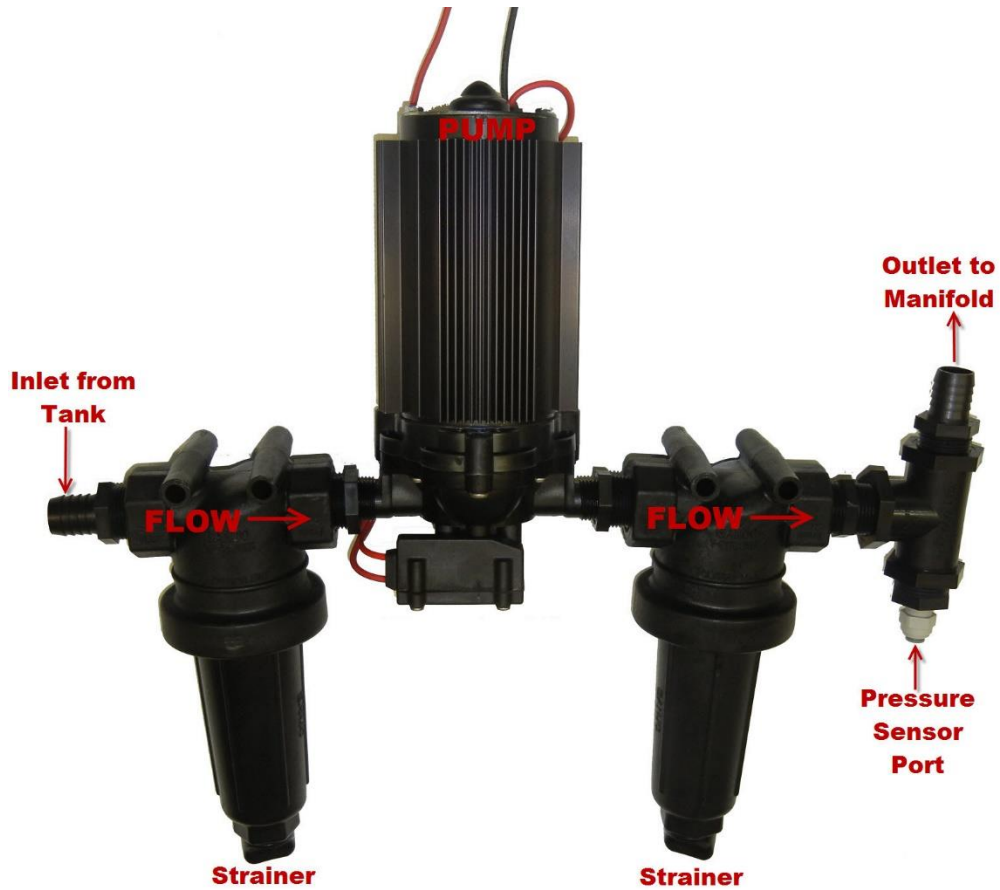
In-Furrow Diagram with Wilger Flow Monitors

Diagram with Wilger Flow Monitors



Totally Tubular Seed Drops
www.totally-tubular.net
for installation instructions

Assembly of Strainers and Pumps

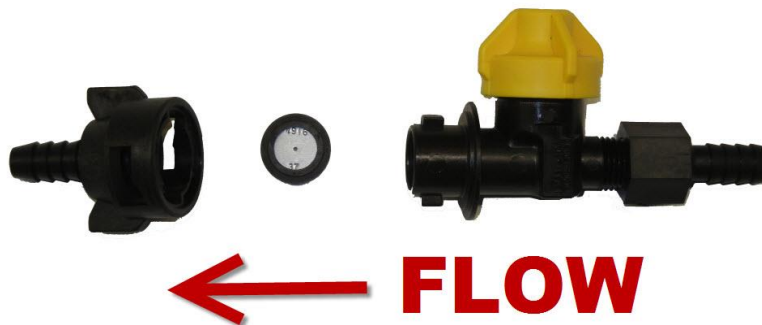


Metering Plate and Check Valve Assembly



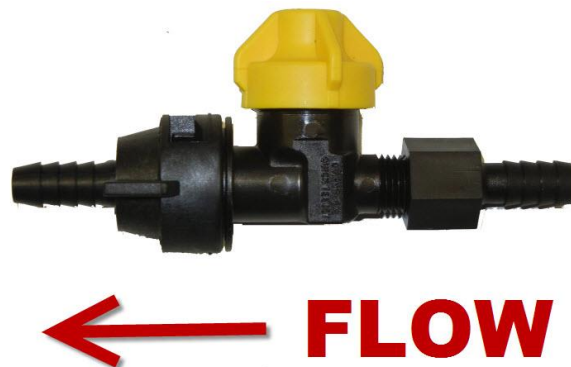
1. Parts - Each check valve should have the following parts

- One (1) female threaded hose barb
- One (1) check valve
- One (1) metering plate washer
- One (1) metering plate
- One (1) quick jet cap
- One (1) hose barb



2. Assembly

- Apply sealant on check valve threads then tighten down the threaded hose barb
- Insert metering plate into metering plate gasket then place gasket
- Insert hose barb into the end of the quick jet cap
- Place metering plate and gasket into the quick jet cap
- Attach quick jet cap



Assembly of Wilger Flow Indicators



1. Parts - Each flow indicator should have the following parts
 - One (1) clear plastic sight gauge
 - Two (2) metal clips
 - Five (5) indicator balls
 - One (1) ball catch
 - Two (2) o-rings
 - One (1) elbow



2. Place O-rings
 - One o-ring is placed on the bottom of the sight gauge



- Second o-ring is placed on the elbow



3. Insert appropriate indicator ball (see indicator ball chart)



4. Place ball catch



5. Place elbow



6. Insert metal clip to secure elbow



7. Once you have several sight gauges assembled, you can connect the series of sight gauges



8. Insert metal clip to secure sight gauges





9. Attach center tee with pressure gauge



10. Drill hole to allow flow of liquid to pressure gauge
(NOTE - place tee in a bench vice for safety)



11. Apply sealant to all threaded connections.



12. Place o-rings on each side of center tee



13. Final Assembly
- Place metal clips in to secure sight gauges to center tee
- Place metal clips in to secure end caps

Monitor Calibration

Digital monitor is calibrated in PSI. To calculate proper PSI, use the calculation below and cross reference the table listed below.

$$\text{GPM} = \frac{\text{GALLONS PER ACRE} \times \text{PLANTING SPEED} \times \frac{\text{ROW SPACING}}{(\text{inches})}}{5940}$$

Capacity in GPM (Based on Water)

Metering Plate	5 PSI	7.5 PSI	10 PSI	15 PSI	20 PSI	30 PSI
MP 27	0.032	0.039	0.045	0.054	0.064	0.078
MP37	0.057	0.069	0.081	0.090	0.114	0.148
MP 47	0.091	0.110	0.130	0.155	0.180	0.238
MP 57	0.130	0.160	0.190	0.230	0.270	0.346
MP 67	0.194	0.234	0.275	0.332	0.389	0.481
MP 73	0.239	0.288	0.338	0.407	0.477	0.571
MP 83	0.310	0.370	0.430	0.520	0.610	0.778
MP 93	0.355	0.430	0.505	0.610	0.715	0.948
MP 103	0.470	0.565	0.660	0.795	0.930	1.130

Conversion factors for other than water

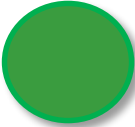
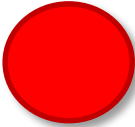
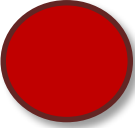
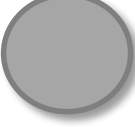
10 lbs per gallon	0.91
10.7 lbs per gallon	0.88
11 lbs per gallon	0.87
12 lbs per gallon	0.83

NOTE: Divide when using the above conversion factors

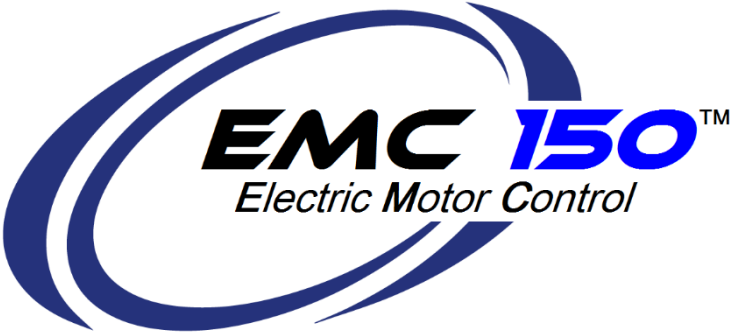
Wilger Flow Indicator Set-up

$$\text{GPM} = \frac{\text{GALLONS PER ACRE} \times \text{PLANTING SPEED} \times \frac{\text{ROW SPACING}}{(\text{inches})}}{5940}$$

FLOW RATES PER COLUMN GPM (WATER)

-  **GREEN POLYPROP.....0.05 – 0.08**
-  **RED CELRON0.09 – 0.30**
-  **RED GLASS0.31 - 0.72**
-  **STAINLESS STEEL0.40 – 1.33**

Please see the EMC150 manual for installation & wiring



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