

**Gregson-Clark Fill Systems  
Operators Manual  
6 GPM & 18 GPM Pumps**



**GREGSON-CLARK** Spraying Equipment

A Division of Rhett M. Clark, Inc.

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

**3213 Lehigh Street, Caledonia NY 14423**

**800-706-9530 – 585-538-9570**

### **Set Up & Assembly:**

Gregson-Clark fill systems come preassembled and ready to be placed into production. Each unit has been tested prior to shipping and may show a small amount of RV anti-freeze remaining in the tank.

### **Installation:**

Fill systems need to be secured to the vehicle prior to transport. Larger fill systems come standard with base frames that have provisions to bolt to the vehicle bed. The 55-gallon and 80-gallon systems do not come with frames. These tanks are usually strapped to the wall of the enclosed body vehicle or the truck bed. Base frames are available for both the 55 and 80-gallon units.

55-Gallon systems -Use part # F55B for the base frame and part # TDK-55 for the strap kit.

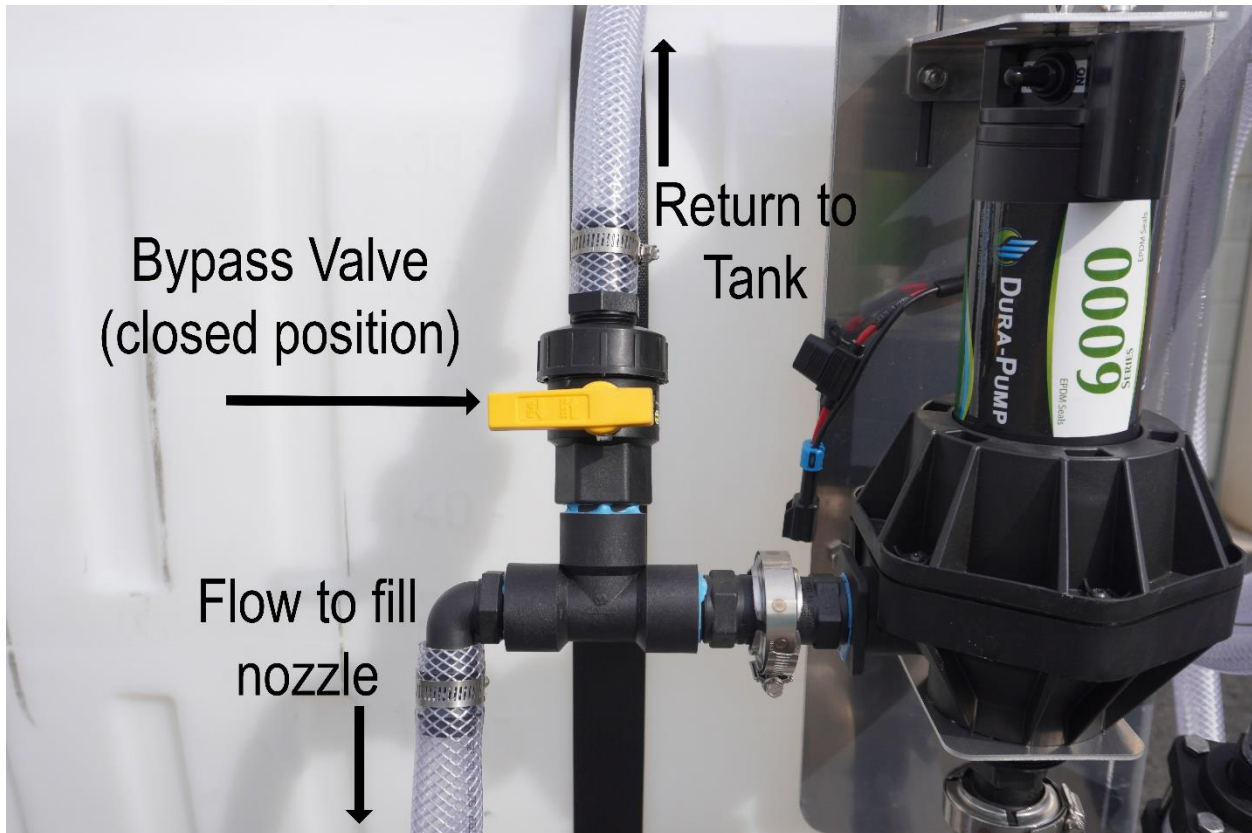
80-gallon systems – Use part # F80B for the base frame and part # TDK-80 for the strap kit

### **Wiring:**

Each system is equipped with a wiring harness to supply power to the pump. The wiring harness has a fuse inline to protect the pump in the event of excess amperage draw. The harness can be connected directly to the vehicle battery, a stand-alone deep cell battery, or power can be pulled from the hose reel solenoid on an existing Gregson-Clark sprayer. The red terminal (+) connects to the positive battery terminal and the black (-) connects to the negative battery terminal.

### **System Overview:**

Fill systems are designed to pull liquid from the tank, pass through the strainer and into the pump. The liquid then will travel out of the pump and flow to the fill nozzle or back to the tank. The path the liquid travels will be determined by the position of the bypass valve located on the return line to the tank. If the valve is open fully, all liquid will return to the tank for agitation. If the valve is in the off position, liquid will be directed to the fill nozzle. If the valve is partially open some liquid will return to the tank and some will flow to the fill nozzle.



6 GPM systems use the Flojet R8600 pump which has a pressure switch installed on the pump. If the bypass line and fill nozzle are closed the pump will turn off once pressure reaches 70 PSI. Once the bypass line or fill nozzle is opened the pump will turn back on.

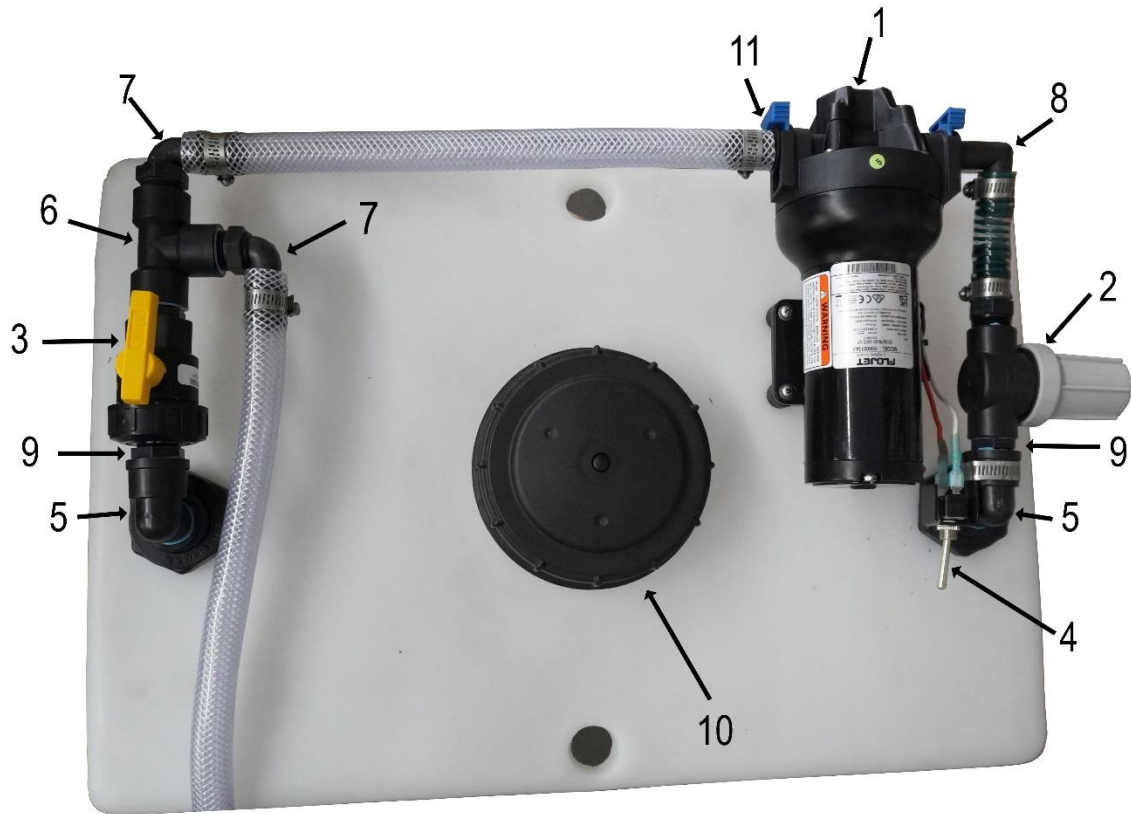
18 GPM systems feature a DuraPump which has an internal bypass feature. If the bypass line and fill nozzle are closed, the pump will cycle the liquid in the pump head. Once the bypass line or fill nozzle is opened the pump will pump liquid accordingly.

Although the Durapump does have an internal bypass, we do not recommend leaving the pump dead-headed (bypass valve closed, fill nozzle closed) for an extended period. This could lead to pump failure.

#### Strainers:

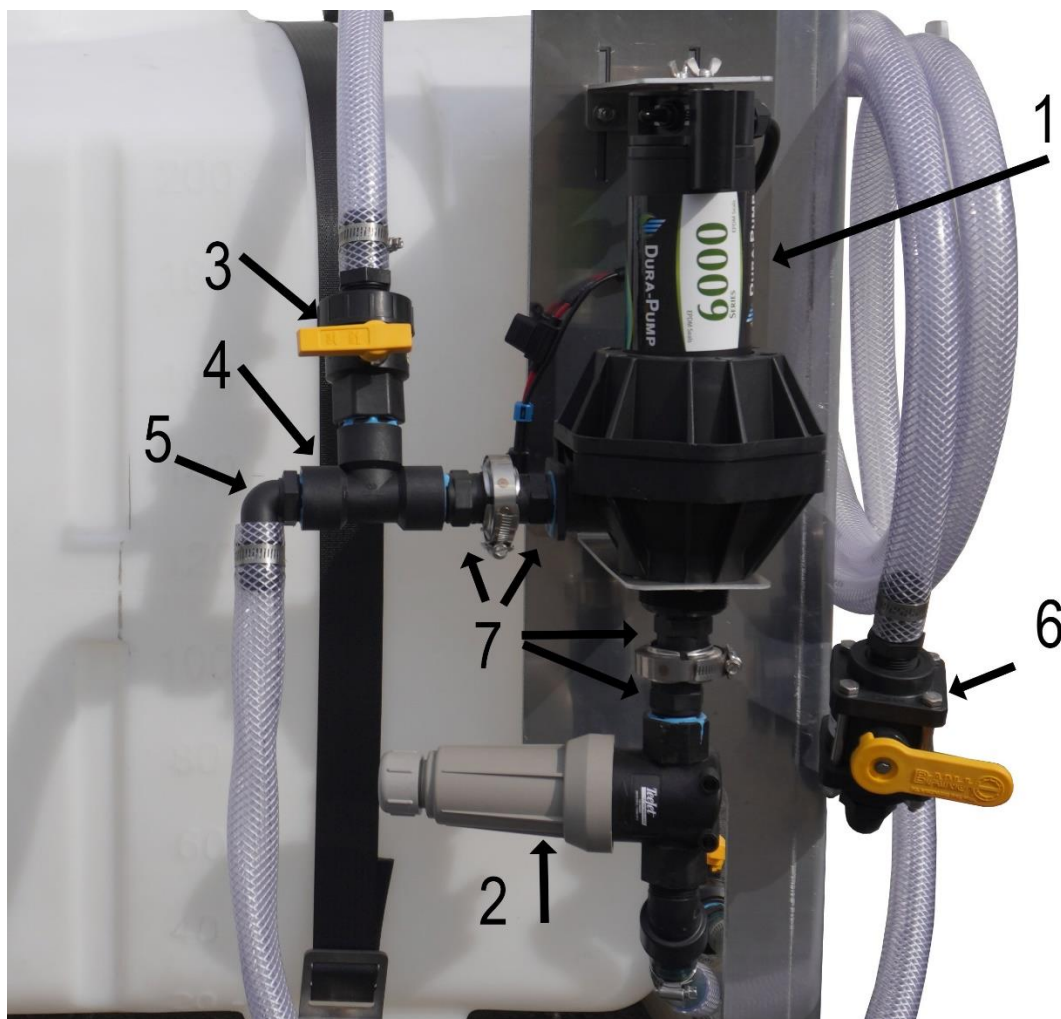
Both systems are equipped with strainers on the suction side of the pump. Strainers have O-rings to seal the two halves together and prevent air from entering the system. O-rings may need to be changed as part of routine maintenance. Strainers should be cleaned regularly. A clogged strainer can cause a pump to fail prematurely.

## 6 GPM 12-volt Fill System Diagram



Reference #	Part #	Description
1	R8600-134A	6.0 GPM FloJet Pump
Not shown		Pump diaphragm assembly
Not shown		Pump valve assembly
2	AA122-3/4-PP-50	Filter Assy, with 50 mesh screen
Not Sown	CP23173-EPR	Replacement Strainer Gasket
Not Shown	CP45102-3-SSPP	Replacement Screen
3	UV075FP	Bypass Ball Valve Assembly
4	7200030	On/off toggle switch
5	SL075-90	3/4" street elbow
6	TEE075	3/4" Tee
7	HB075-90	3/4" MPT x 3/4" HB 90 degree
8	20381-710	90 degree 3/4" inlet elbow
9	NIP075-SH	3/4" short nipple
10	10522	5" tank lid
11	20381-700	3/4" outlet barb
Not Shown	506532SV	Plunger Fill Nozzle
Not Shown	SP0055-MM, SP0080-RT	55 or 80-gallon tank

## 18 GPM 12-volt Fill System Diagram



Reference #	Part #	Description
1	DP-6018-E	18.0 GPM DuraPump
Not shown	DP-P6017A-E	Pump cartridge kit
Not shown	DP-G4001A-E	Pump gasket kit
2	AA126ML-4-00	Filter Assembly
Not Sown	Cp50494-EPR	Replacement Strainer Gasket
Not Shown	CP16903-4-SSPP	Replacement Screen
3	UV075FP	Bypass Ball Valve Assembly
4	TEE100	1" Tee
5	HB100-90	1" MPT x hose barb 90 degree
6	V100FP	1" Valve
7	M100MPT	1" MPT x 1" Flange
Not Shown	FG100	1" Flange Gasket
Not Shown	FC100	1" Flange Clamp