



**Franklin Electric**

# CONVERTIBLE VERSAJET PUMP DEEP WELL INJECTOR KIT INSTRUCTION SHEET

This carton contains all the parts needed to assemble a deep well injector suitable for installation in a 4" or larger well or cistern when the intent is to lift water 25' or more from below the location of the Convertible VersaJet pump. It is important to match the correct nozzle and venturi combination with the pump rating to obtain the desired performance (flow and pressure) from the depth to water (suction lift). A standard 147E injector kit includes one each of a specific nozzle and venturi size. The CVJ-DW1-5 injector kit includes an assortment of nozzles and venturi so the injector can be set up for the desired performance at a specific site. Refer to the pump catalog performance charts and the nozzle/venturi chart below to complete the deep well injector kit assembly that is right for the performance desired. Contact the Franklin Electric Hot Line for assistance at 800-348-2420.

**Caution: Do not use sealant, pipe tape, or lubricant of any kind on the plastic components listed in these instructions.**

## **CVJ DEEP WELL PUMP: DEEP WELL INJECTOR ASSEMBLY INSTRUCTIONS**

Note: Shallow well pumps are capable of a maximum suction lift of 25' including suction line losses. For suction lifts of greater depths, a deep well injector must be properly sized to match the pump and depth to water from which the pump will be lifting in order to provide the required flow and pressure. Furthermore, it must be installed at the correct depth in the well and have sufficient back-pressure maintained in order for the injector to work properly. A tailpipe may be required for low yield well applications or if the pump capacity may exceed the recharge rate of the well, in which case severe drawdown will occur.

### **STEP 1**

Install the appropriate nozzle into the cast iron injector body housing using a 3/4-inch deep well socket with appropriate extension, and torque to 25 inch pounds (in-lbs).

### **STEP 2**

Install the appropriate venturi into the cast injector body housing using a 5/8-inch or 3/4-inch hex key wrench and torque to 25 inch pounds (in-lbs).

### **STEP 3**

Apply thread sealant, such as pipe dope or PTFE tape, to the 1-1/4-inch NPT threads of the bronze foot valve strainer. Install the foot valve into the bottom hole of the deep well injector body. Tighten with a pipe wrench.

### **STEP 3A**

The foot valve must be submerged at all times. The water level in the well must not go below the foot valve, which would cause a loss of prime. If the well cannot supply as much as the pump can draw, install a 1-1/4" tailpipe up to 30 ft. (9m) long between the injector and the foot valve. As the well draws down under heavy demand and the water level falls below the injector body, the pump's capacity will be automatically reduced as the water level drops the length of the tailpipe so as not to exceed the well's capacity.

### **STEP 4**

Attach this assembly to the 1" drive and 1-1/4" suction lines with PTFE tape as indicated in your pump owner's manual.

Convertible Versa Jet (low S.F. motor)				Convertible Versa Jet Pro (high S.F. motor)				Deep Well Performance Desired		
Order No.	HP	DW Faceplate	Model No.	Order No.	HP	DW Faceplate	Model No.	Higher Pressure (lower flow)	Medium Pressure (medium flow)	Lower Pressure (higher flow)
96130005	1/2	n.a.	FCVJ05CI	--	--	--	--	N.A.	DW5: 147E1114 30 - 90' Lift	DW2: 147E1019 30 - 70' Lift
96133005	1/2	Myers	CVJ05CI-M	--	--	--				
96134005	1/2	F&W	CVJ05CI-F	--	--	--				
96135005	1/2	Goulds	CVJ05CI-G	--	--	--				
96136005	1/2	Sta-Rite	CVJ05CI-S	--	--	--				
96130007	3/4	n.a.	FCVJ07CI	96131005	1/2	n.a.	FCVJ05CI-P	N.A.	DW1: 147E0914 30 - 90' Lift	DW2: 147E1019 30 - 90' Lift
96133007	3/4	Myers	CVJ07CI-M	96133105	1/2	Myers	CVJ05CI-M-P			
96134007	3/4	F&W	CVJ07CI-F	96134105	1/2	F&W	CVJ05CI-F-P			
96135007	3/4	Goulds	CVJ07CI-G	96135105	1/2	Goulds	CVJ05CI-G-P			
96136007	3/4	Sta-Rite	CVJ07CI-S	96136105	1/2	Sta-Rite	CVJ05CI-S-P			
96130010	1	n.a.	FCVJ10CI	96131007	3/4	n.a.	FCVJ07CI-P	N.A.	DW4: 147E1116 30 - 90' Lift	DW2: 147E1019 30 - 90' Lift
96133010	1	Myers	CVJ10CI-M	96133107	3/4	Myers	CVJ07CI-M-P			
96134010	1	F&W	CVJ10CI-F	96134107	3/4	F&W	CVJ07CI-F-P			
96135010	1	Goulds	CVJ10CI-G	96135107	3/4	Goulds	CVJ07CI-G-P			
96136010	1	Sta-Rite	CVJ10CI-S	96136107	3/4	Sta-Rite	CVJ07CI-S-P			
96130015	1.5	n.a.	FCVJ15CI	96131010	1	n.a.	FCVJ10CI-P	DW4: 147E1116 30 - 90' Lift	DW2: 147E1019 30 - 90' Lift	DW3: 147E1125 30 - 60' Lift
96133015	1.5	Myers	CVJ15CI-M	96133110	1	Myers	CVJ10CI-M-P			
96134015	1.5	F&W	CVJ15CI-F	96134110	1	F&W	CVJ10CI-F-P			
96135015	1.5	Goulds	CVJ15CI-G	96135110	1	Goulds	CVJ10CI-G-P			
96136015	1.5	Sta-Rite	CVJ15CI-S	96136110	1	Sta-Rite	CVJ10CI-S-P			

DW Performance	Nozzle Code	Nozzle Size	Venturi Code	Venturi Size	Note: The 2-digit code is molded into the nozzle and venturi with the bore dimension as a back-up reference, using drill bits or pin gauges to verify I.D.
DW1: 147E0914	09	15/64"	14	5/16"	
DW2: 147E1019	10	1/4"	19	25/64"	
DW3: 147E1125	11	17/64"	25	31/64"	
DW4: 147E1116	11	17/64"	16	11/32"	
DW5: 147E1114	11	17/64"	14	5/16"	
CVJ-DW1-5	Contains 1 of each nozzle and venturi code and size				