



## INSTRUCTIONS

1. Float operated pilot valve is normally installed at the factory. If installed in the field, ensure it is installed right side up.
2. Supply port on the float valve (S) is plumbed to a fitting on the vessel downstream of coalescers to ensure supply line is free of solid contamination.
3. The float valve water drain port (W) is plugged (see Note 2).
4. The float valve discharge (slug) valve port (D) is connected to the open/shut control pilot (X) on the discharge (slug) valve. (If no discharge (slug) valve is installed, the port is plugged.)
5. Rate of flow control, (ROFC) orifice is located on inlet flange of Cla-Val, Watts ACV, & OCV slug valves. The ROFC valve is available with optional check valve feature. The float pilot is available with optional internal ballast to check the integrity of the float ball. We strongly recommend the ballast type float controls!!
6. Remove the plastic cap plug from the vent port (V). (The vent port can be left open or optionally connected to downstream of the manual water drain valve. If connected be sure that there is no line pressure acting against the vent.)

## FLOAT FLANGE TORQUE REQUIREMENTS

- Hand tighten all nuts evenly to hold float control in place. (Flat gasket should be dry.)
- Apply 30% of required torque in a cross-torquing process to all nuts.
- Follow above procedure to 60% of required torque and then again to 100%.

Vessel Design	Torque Requirements
150 psi	25 ft/lb
275 psi	40 ft/lb

## NOTES

1. The Carter/Watts ACV and OCV float systems use supply pressure to open the automatic drain valve and to keep the discharge (slug) valve open.  
The Cla-Val float system uses supply pressure to keep the automatic water drain valve closed and to close the discharge (slug) valve.
2. VELCON DOES NOT RECOMMEND, WARRANTEE, OR SELL AUTOMATIC DRAIN VALVES. They do not completely drain the water from the sump and they malfunction too often resulting in costly fuel spills and subsequent environmental problems.

FLOAT VALVE PORT FUNCTION	VENDOR IDENTIFICATION		
	CARTER/WATTS* ACV	CLA-VAL	OCV
S = PRESSURE SUPPLY	P	S	P
W = WATER DRAIN VALVE	DV	W	W
D = DISCHARGE (SLUG) VALVE	SV	F	A
V = VENT	E	D	E

\* Formerly Muesco and Baker



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