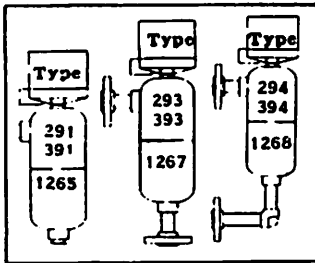




**SERIES 291, 391, 1265 LIQUID LEVEL CONTROLS**  
**INSTALLATION AND OPERATING INSTRUCTIONS**



**OPERATING CHARACTERISTICS**

When the float rises to the operating point, the switch or switches are actuated by the mutual attraction between a magnetic plunger attached to the float within the float chamber and a magnet attached to the switch operating assembly. When the float drops, the magnetic plunger is moved out of the field of the magnet on the switch operating assembly and the switch or switches are restored to their original position by gravity. The magnetic plunger attached to the float moves within a tube within the switch enclosure. The switch unit is mounted on the tube.

**EXPLANATION OF TYPE AND CODE NUMBERS**

**Example. TYPE 291G-4820BN-C1-60**  
 291 is the type number of the control; letter "G" denotes enclosure; 4820BN designates circuit arrangement; C1 denotes materials of construction; 60 indicates pressure rating and specific gravity.

**ENCLOSURES**

**General Purpose** enclosures are identified by the letter "G" in the type number as in 291G.

**Weather-Resistant** enclosures are identified by the letter "W" in type number as in 291W.

**Explosion Proof** enclosures are identified by the letter "E" in type number as in 291E.

**Explosion Proof/Vapor-Proof** enclosures are identified by the letters "EV" in type number as in 291EV.

**Explosion-Proof/Weather-Proof** enclosures are identified by the letters "EW" in type number as in 291EW.

**SPECIAL FEATURES**

**Semi-Automatic** (with manual reset) operates automatically on level fall only - manual reset required on level rise. This operation identified by the letters "RU" in type number as in 291GRU.

**440 VOLT SERVICE**

See Electrical Circuits and Ratings Chart on reverse side of this bulletin.

**LOCATION - MOUNTING**

Select location recommended by equipment manufacturer. Mount all controls **VERTICALLY** and be sure that control switch mechanism is **LEVEL**.

**WIRING**

Wire in accordance with local electrical codes or follow equipment manufacturer's instructions. Green screw on base plate is for grounding.

Align wiring block to face conduit opening and and tighten clamp screw of switch assembly as shown in Illustration 11.

The 3/4" NPT conduit connection (on all types) can be rotated 360° to facilitate wiring.

Do Not overload electrically. See rating stamped on nameplate.

**OPERATING ADJUSTMENTS**

Single Stage Operation - the switch operating mechanism Must Rest At Bottom of Armature Tube against enclosure base.

**DO NOT OIL ANY PARTS. NEVER LEAVE COVER OFF THE SWITCH OPERATING MECHANISM.**

**LIQUID LEVEL CHANGES IN INCHES FOR SWITCH OPERATION**

**SINGLE STAGE - NOT ADJUSTABLE**

291 SERIES			
Sp. Gr.	A	B	Code
1.0	3 3/8"	7/8"	C1-60
	82.5mm	22mm	
0.60	3-5/8"	1-1/8"	
	92mm	28.6mm	

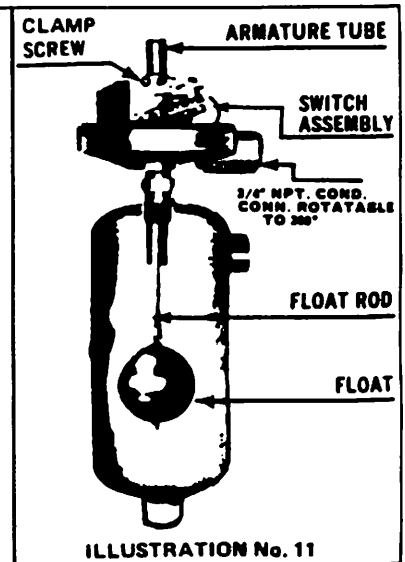
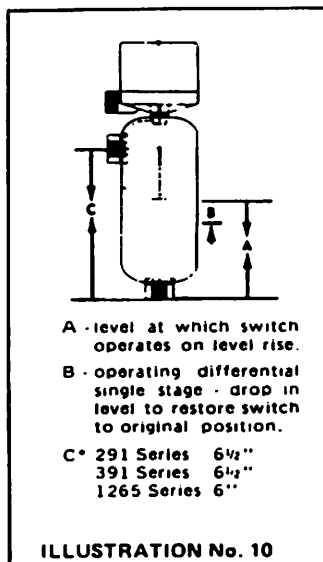
1265 SERIES			
Sp. Gr.	A	B	Code
1.0	36/8"	5/8"	C1-40
	92mm	15.9mm	
0.40	5"	1-3/16"	
	127mm	30mm	

391 SERIES			
Sp. Gr.	A	B	Code
1.0	4"	1"	C1-70
	101.6mm	25.4mm	
0.70	4-11/16"	15/16"	
	119mm	33.3mm	

Sp. Gr.	A	B	Code
1.0	4-3/8"	1"	C1-80
	111mm	25.4mm	
0.80	4-11/16"	1-3/16"	
	119mm	30mm	

Sp. Gr.	A	B	Code
1.0	4 1/2"	7/8"	C1-95
	120.6mm	22mm	
0.95	5"	1"	
	127mm	25.4mm	

**ALLOW 8" OVERHEAD CLEARANCE FOR COVER REMOVAL**



\* Dimensions A, B, C may vary for controls with Stainless Steel Bodies.

**WARNING:** A failure resulting in injury or damage may be caused by over-pressures, excessive vibration or pressure pulsation, excessive temperature, corrosion of pressure containing parts and movement assembly, electrical overload, or other misuse.