

FLOAT SWITCH – PUMP DUTY

2900 MECHANICAL SERIES – WIDE ANGLE FLOAT SWITCH

GENERAL
DESIGNED FOR OPERATING SEWAGE PUMPS, INDICATING HIGH/LOW WATER ALARMS, AND FOR MONITORING LIQUID LEVELS. THE FLOAT SWITCH CAN BE UTILIZED TO SIGNIFY SPECIFIC WATER LEVELS OR FOR DIRECT PUMP ACTUATION.

SWITCH VARIATIONS
NORMALLY OPEN (N/O)
THE CONTACTS ARE OPEN (OR OFF) IN THE HANGING POSITION. AS THE FLOAT RISES 45° ABOVE HORIZONTAL, THE CONTACTS BECOME CLOSED AND ACTUATE (TURN ON) THE SWITCH. THIS FLOAT IS GENERALLY USED IN PUMP DOWN APPLICATIONS.

NORMALLY CLOSED (N/C)
THE CONTACTS ARE CLOSED (OR ON) IN THE HANGING POSITION. AS THE FLOAT RISES 45° ABOVE HORIZONTAL, THE CONTACTS BECOME OPEN AND ACTUATE (TURN OFF) THE SWITCH. THIS FLOAT IS GENERALLY USED IN PUMP UP APPLICATIONS.

SINGLE POLE, DOUBLE THROW (SPDT)
A VARIATION OF THE PREVIOUSLY LISTED SWITCHES. THIS FLOAT SWITCH CAN BE WIRED TO OPERATE AS EITHER (BUT NOT BOTH) A NORMALLY OPEN OR NORMALLY CLOSED SWITCH BASED ON THE USER'S NEED.

SWITCH SPECIFICATIONS
2900 SERIES MECHANICAL FLOAT SWITCHES ARE DESIGNED TO OPERATE UNDER THE FOLLOWING PARAMETERS.

- MINIMUM OPERATING TEMPERATURE - 32 DEGREES F.
- MAXIMUM OPERATING TEMPERATURE - 190 DEGREES F.
- 13 AMPS @ 120 VAC FOR ½ H.P. AND 1 H.P. AT 240 VAC
- 15 AMPS @ 120 VAC FOR 1 H.P. AND 2H.P. AT 240 VAC

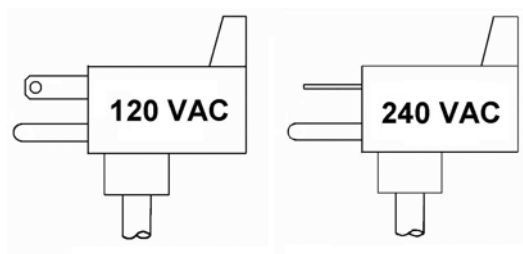
POWER CORD SPECIFICATIONS

- CONDUCTOR CORD - CHLORINATED POLY ETHYLENE.
- ELECTRICAL FOR N/O OR N/C SWITCH - 16 AWG 2, TYPE SJOW-300 VOLT.
- ELECTRICAL FOR SPDT SWITCH - 16 AWG 3, TYPE SJOW-300 VOLT.
- ELECTRICAL FOR 1 H.P./2H.P. SWITCH - 14 AWG 2. TYPE SJOW-300 VOLT
- OPTIONAL 120 VAC OR 240 VAC PIGGY BACK PLUG

FLOAT SPECIFICATIONS
DURABLE ABS MATERIAL CONSTRUCTION. SAFE FOR POTABLE WATER.
LEAK PROOF, SHOCK PROOF, AND IMPACT RESISTANT.
RESISTANT TO SEWAGE AND WASTEWATER APPLICATIONS.
FOR USE WITH INTRINSICALLY SAFE CIRCUITS.

OPTIONAL CORD MOUNTING ASSEMBLIES AVAILABLE (NOT SHOWN)
ZINC PLATED CAST IRON CORD WEIGHT – 1.22 LBS.

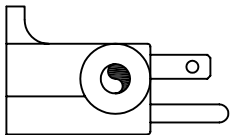
POLYPROPYLENE CABLE CLAMP WITH STAINLESS STEEL BAND



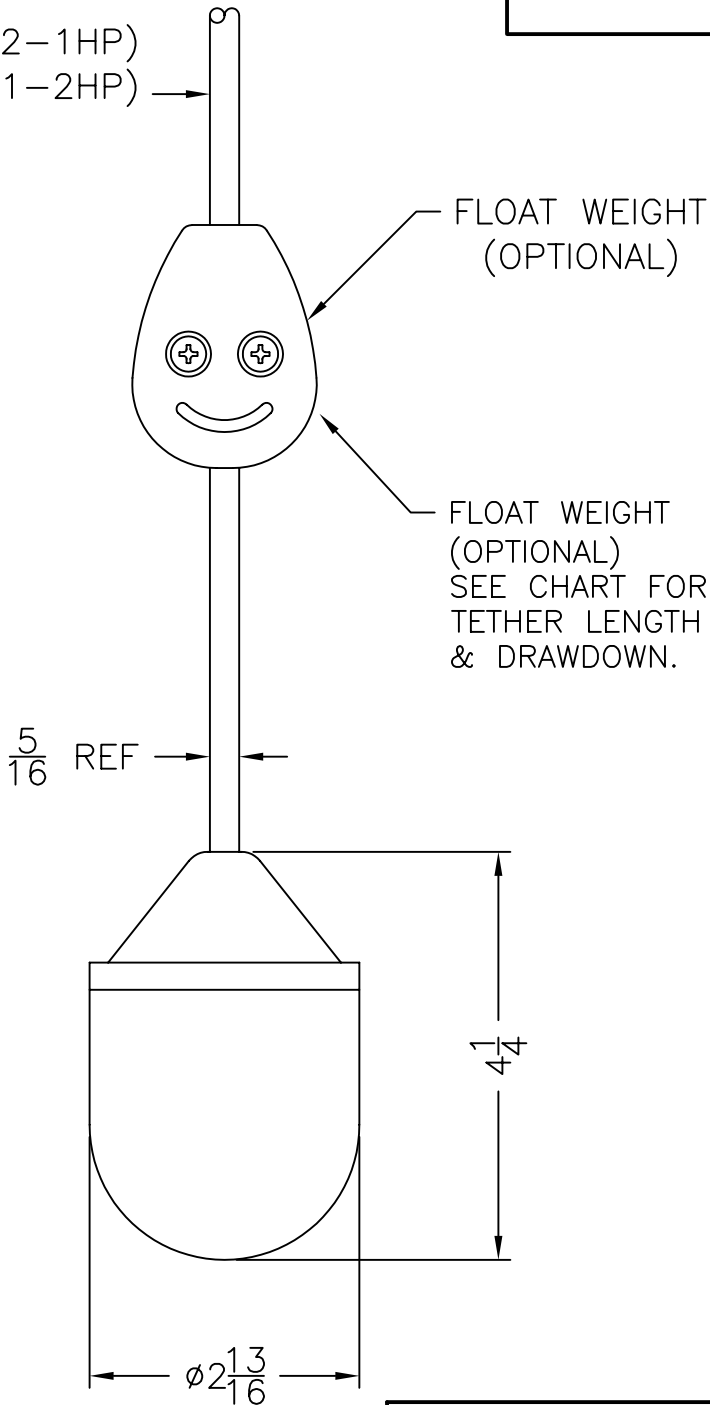
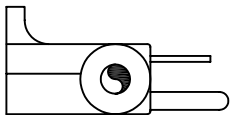
16/2 SJOW CABLE (1/2-1HP)
14/2 SJOW CABLE (1-2HP)



115V PIGGYBACK
PLUG (OPTIONAL)



230V PIGGYBACK
PLUG (OPTIONAL)



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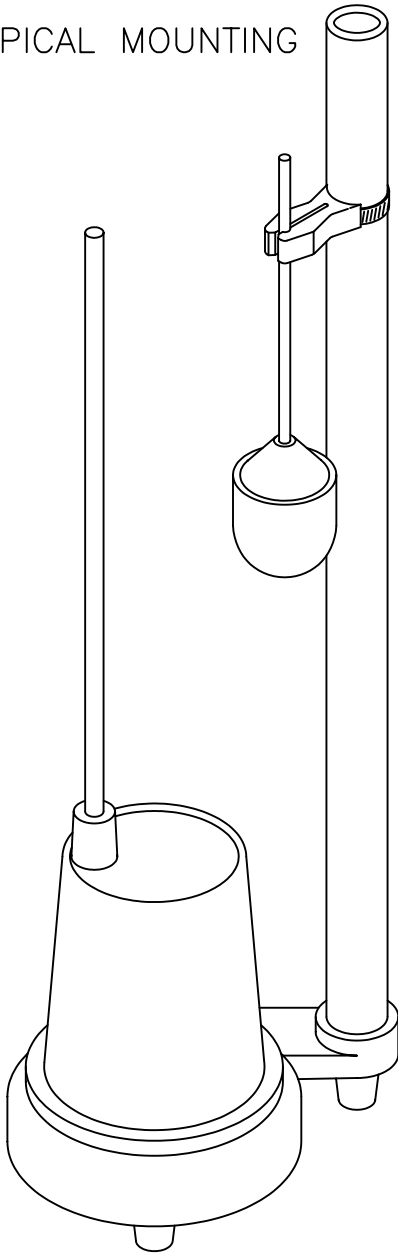
CHANGES		TOLERANCES		DRAWN BY		DATE		SPECIFICATION SHEET MECHANICAL FLOAT	
F		DECIMALS		D. MIDDLETON		02/20/04			
E		.XXX = ±.005		MATERIAL SPECIFICATION: WIDE ANGLE MECHANICAL FLOAT				SCALE: PART NO.	
D		.XX = ±.010						HALF	
C		FRACTIONAL							
B		X/X = ±.1/64							
A		ANGLES							
		X' = ±1/2'							

NOTE: ALL ELECTRICAL DIAGRAMS SHOWN ARE EXAMPLES ONLY,
 CONSULT WITH LOCAL ELECTRICAL AUTHORITIES AND CODES.
 DO NOT USE THESE PRODUCTS IN GASOLINE, VOLATILES,
 OTHER COMBUSTIBLES.

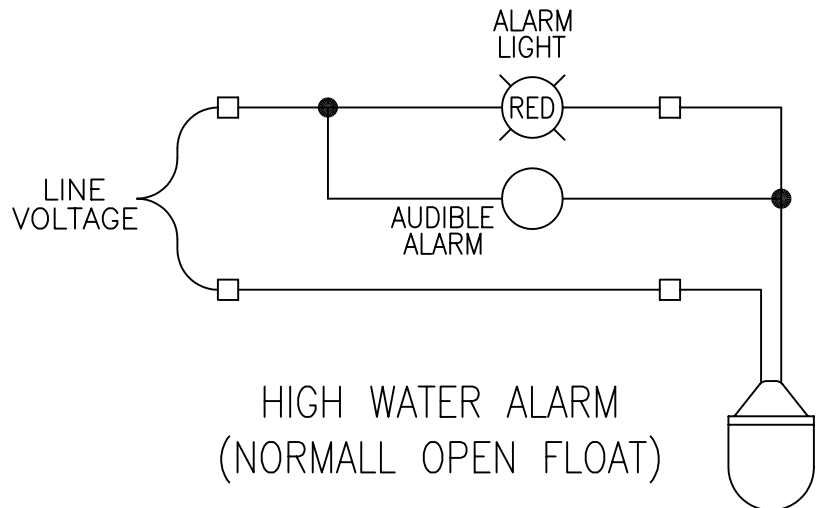
2900 SERIES B3

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TYPICAL MOUNTING



FOR PUMP DOWN USE
 (NORMALLY OPEN FLOAT)
 FOR PUMP UP USE
 (NORMALLY CLOSED FLOAT)



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E	.XX = ±.010	MATERIAL SPECIFICATION: WIDE ANGLE MECHANICAL FLOAT	
D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X' = ±1/2'		

SPECIFICATION SHEET
 MECHANICAL FLOAT

SCALE:	PART NO.
NONE	2900 SERIES B3