

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

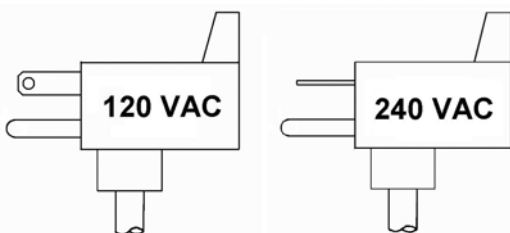
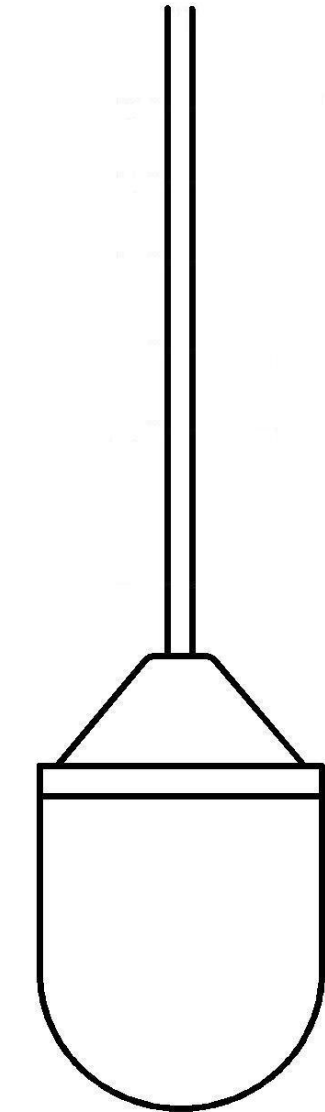
FLOAT SPECIFICATIONS

- 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.

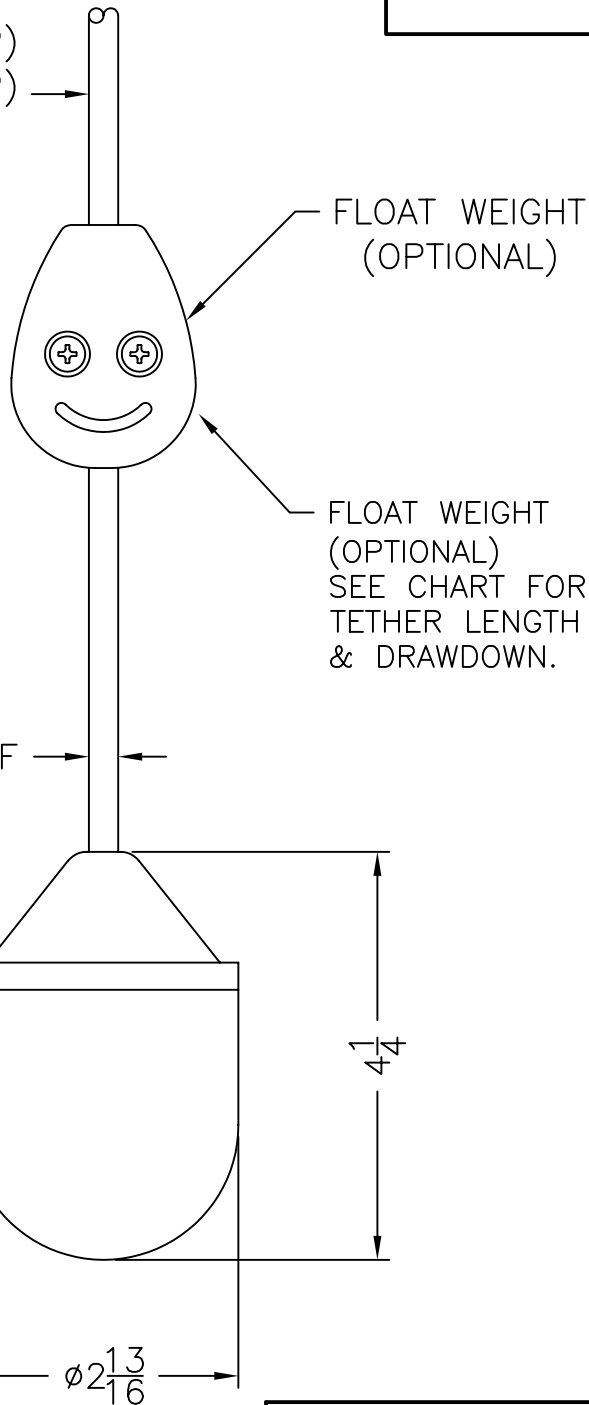
OPTIONAL CORD MOUNTING ASSEMBLIES AVAILABLE (NOT SHOWN)

ZINC PLATED CAST IRON CORD WEIGHT – 1.22 LBS.

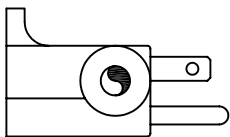
POLYPROPYLENE CABLE CLAMP WITH STAINLESS STEEL BAND



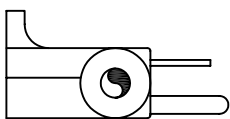
16/2 SJOW CABLE (1/2-1HP)
14/2 SJOW CABLE (1-2HP)



115V PIGGYBACK
PLUG (OPTIONAL)



230V PIGGYBACK
PLUG (OPTIONAL)



FLOAT WEIGHT
(OPTIONAL)

FLOAT WEIGHT
(OPTIONAL)
SEE CHART FOR
TETHER LENGTH
& DRAWDOWN.

$\frac{5}{16}$ REF

$\frac{1}{4}$

$\phi 2\frac{13}{16}$



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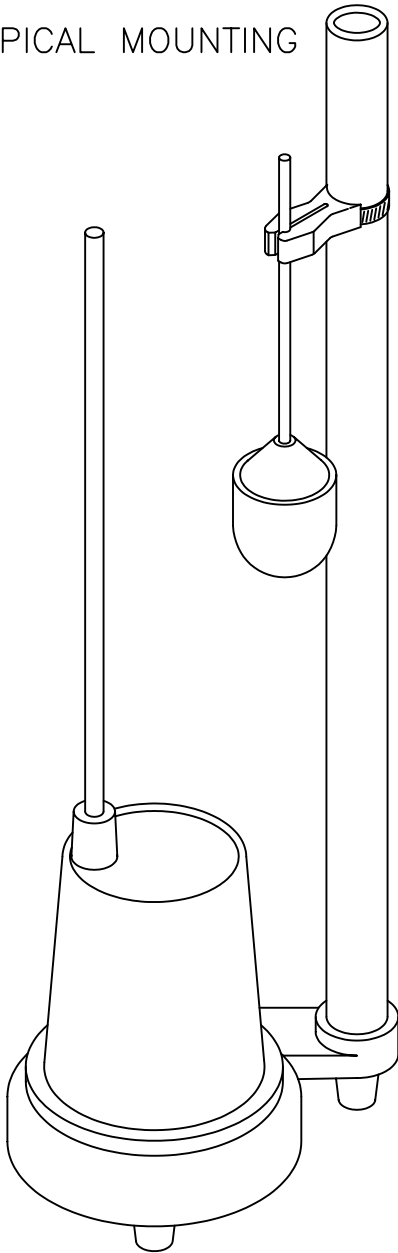
CHANGES	TOLERANCES	DRAWN BY	DATE	SPECIFICATION SHEET MECHANICAL FLOAT	
F	DECIMALS	D. MIDDLETON	02/20/04		
E	.XXX = ±.005	MATERIAL SPECIFICATION: WIDE ANGLE MECHANICAL FLOAT		SCALE:	PART NO.
D	.XX = ±.010			HALF	2900 SERIES B3
C	FRACTIONAL				
B	X/X = ±.1/64				
A	ANGLES				
	X' = ±1/2'				

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.

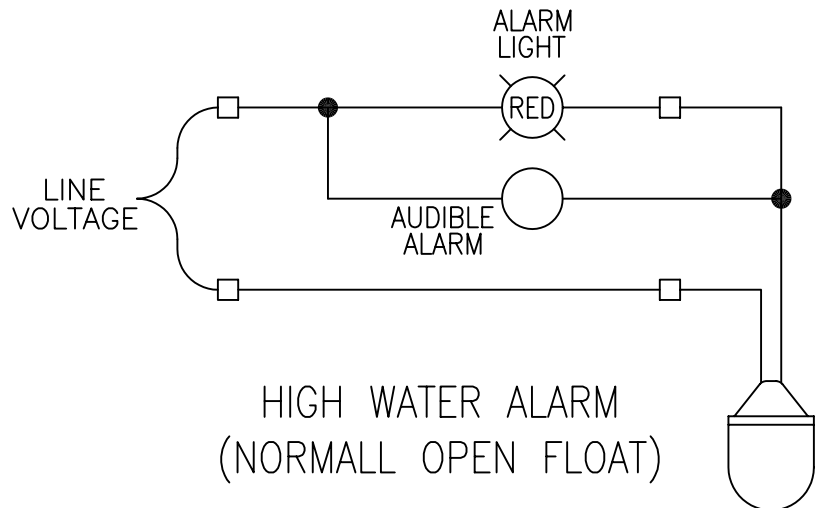
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TYPICAL MOUNTING



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



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D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X' = ±1/2'		

SPECIFICATION SHEET
 MECHANICAL FLOAT

SCALE:	PART NO.
NONE	2900 SERIES B3