



## FLOAT SWITCH – PUMP DUTY

### 2900 MERCURY SERIES – WIDE ANGLE FLOAT SWITCH

#### GENERAL

DESIGNED FOR OPERATING SEWAGE PUMPS TO CONTROL LIQUID LEVEL IN SUMPS. THE FLOAT SWITCH CAN ALSO BE UTILIZED TO SIGNIFY SPECIFIC WATER LEVELS OR FOR DIRECT ALARM 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 MERCURY FLOAT SWITCHES ARE DESIGNED TO OPERATE UNDER THE FOLLOWING PARAMETERS.

MINIMUM OPERATING TEMPERATURE	-	32 DEGREES F.
MAXIMUM OPERATING TEMPERATURE	-	170 DEGREES F.
ELECTRICAL RATING	-	13 AMP – 120 VAC.
ELECTRICAL RATING	-	½ H.P. @ 120 VAC or 1 H.P. @ 240 VAC
ACTUATION POINT	-	45° ABOVE / BELOW HORIZONTAL.

#### POWER CORD SPECIFICATIONS

CONDUCTOR CORD – PHYSICAL	-	CHLORINATED POLY ETHYLENE.
ELECTRICAL FOR N/O OR N/C SWITCH	-	16 AWG 2, TYPE SJOOW-300 VOLT.
ELECTRICAL FOR SPDT SWITCH	-	16 AWG 3, TYPE SJOOW-300 VOLT.
OPTIONAL 120 VAC OR 240 VAC PIGGY BACK PLUG		

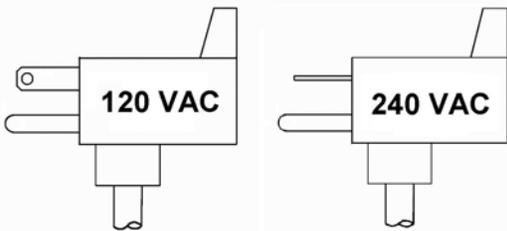
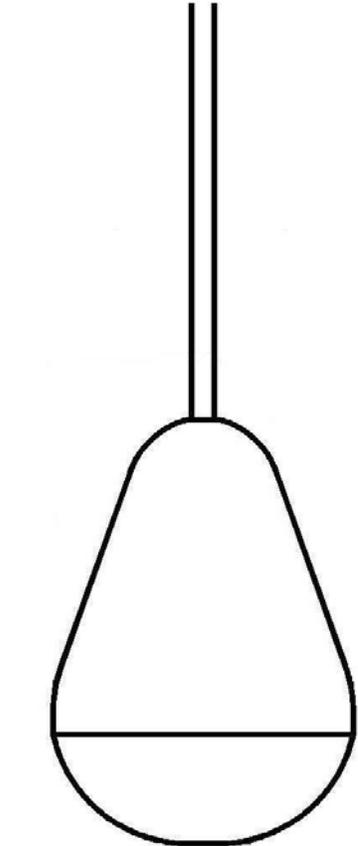
#### FLOAT SPECIFICATIONS

DURABLE POLYPROPYLENE MATERIAL CONSTRUCTION.  
LEAK PROOF, SHOCK PROOF, AND IMPACT RESISTANT.  
RESISTANT TO SEWAGE AND WASTEWATER APPLICATIONS.  
FOR USE WITH INTRINSICALLY SAFE CIRCUITS. 6" TO 30" PUMPING RANGE

#### OPTIONAL CORD MOUNTING ASSEMBLIES AVAILABLE (NOT SHOWN)

ZINC PLATED CAST IRON CORD WEIGHT – 1.22 LBS.

POLYPROPYLENE CABLE CLAMP WITH STAINLESS STEEL BAND



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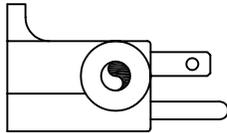
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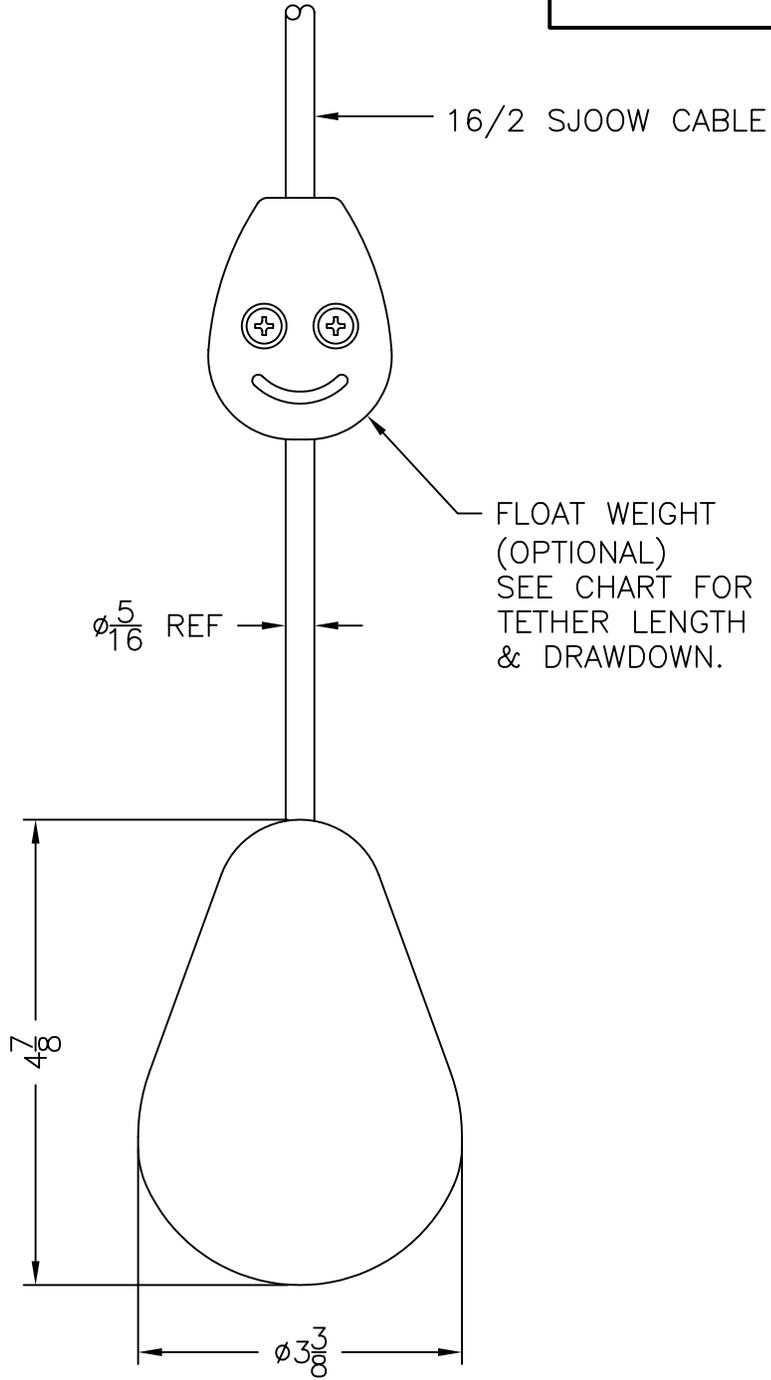
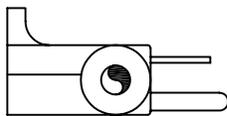
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115V PIGGYBACK PLUG (OPTIONAL)



230V PIGGYBACK PLUG (OPTIONAL)



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

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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/18/04
E	.XXX = ±.005	MATERIAL SPECIFICATION:  WIDE ANGLE FLOAT SWITCH	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES		
	X' = ±1/2'		

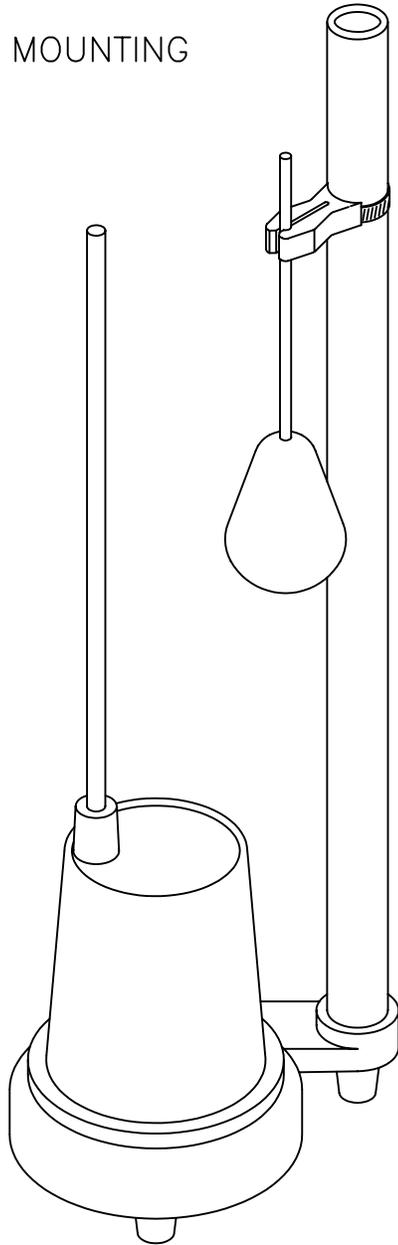
SPECIFICATION SHEET MERCURY FLOAT	
SCALE:	PART NO.
HALF	2900 SERIES B1,B2

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.

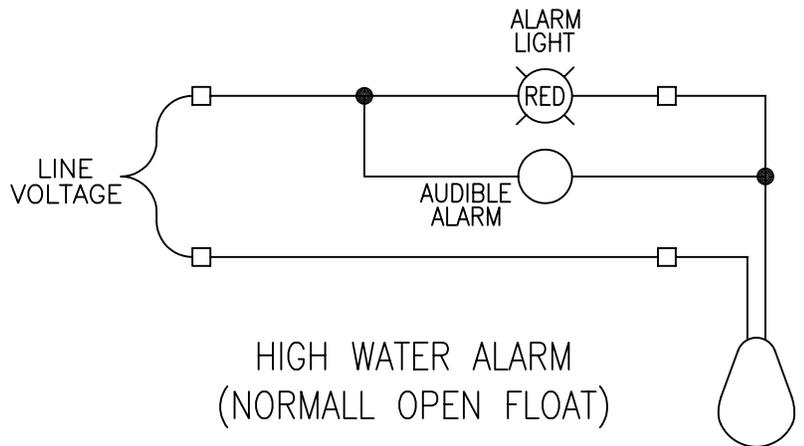
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TYPICAL MOUNTING



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



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005 .XX = ±.010 FRACTIONAL X/X = ±.1/64 ANGLES X° = ±1/2°	D. MIDDLETON	03/18/04
E		MATERIAL SPECIFICATION:  WIDE ANGLE FLOAT SWITCH	
D			
C			
B			
A			

<b>SPECIFICATION SHEET          MERCURY FLOAT</b>	
SCALE:	PART NO.
NONE	2900 SERIES B1,B2