FLOAT SWITCH – CONTROL DUTY
2900 MERCURY SERIES – NARROW ANGLE FLOAT SWITCH

GENERAL
DESIGNED FOR ACCURATE LIQUID LEVEL CONTROL IN MANY APPLICATIONS INCLUDING SEWAGE ENVIRONMENTS. THE FLOAT SWITCH CAN 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 1" (5°) 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 1" (5°) 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.

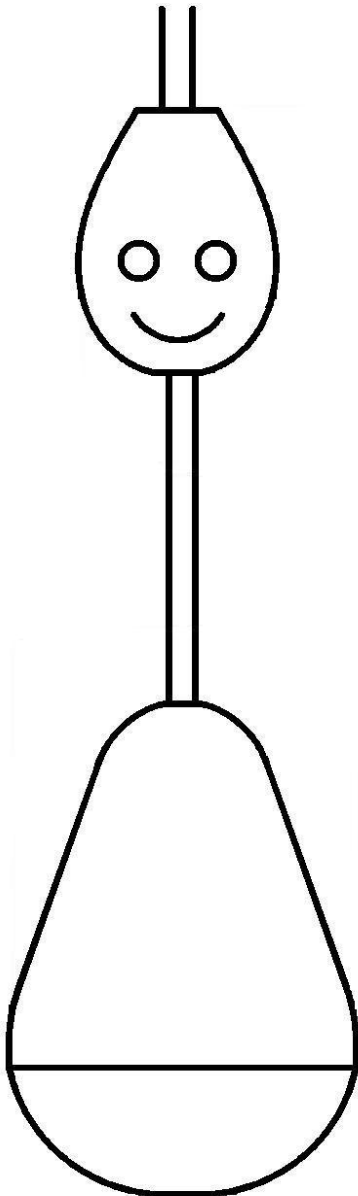|		
MINIMUM OPERATING TEMPERATURE	-	32 DEGREES F.
MAXIMUM OPERATING TEMPERATURE	-	170 DEGREES F.
ELECTRICAL RATING	-	10 AMP – 120 VAC, 3 AMP – 240 VAC
ACTUATION POINT	-	1" ABOVE / BELOW HORIZONTAL.

POWER CORD SPECIFICATIONS

CONDUCTOR CORD – PHYSICAL	-	CHLORINATED POLY ETHYLENE.
ELECTRICAL FOR N/O OR N/C SWITCH	-	18 AWG 2, TYPE SJOOW-300 VOLT.
ELECTRICAL FOR SPDT SWITCH	-	18 AWG 3, TYPE SJOOW-300 VOLT.

FLOAT SPECIFICATIONS
DURABLE POLYPROPYLENE MATERIAL CONSTRUCTION.
SOLID POLYURETHANE FOAM INTERIOR.
LEAK PROOF, SHOCK PROOF, AND IMPACT RESISTANT.
RESISTANT TO SEWAGE AND WASTEWATER APPLICATIONS.
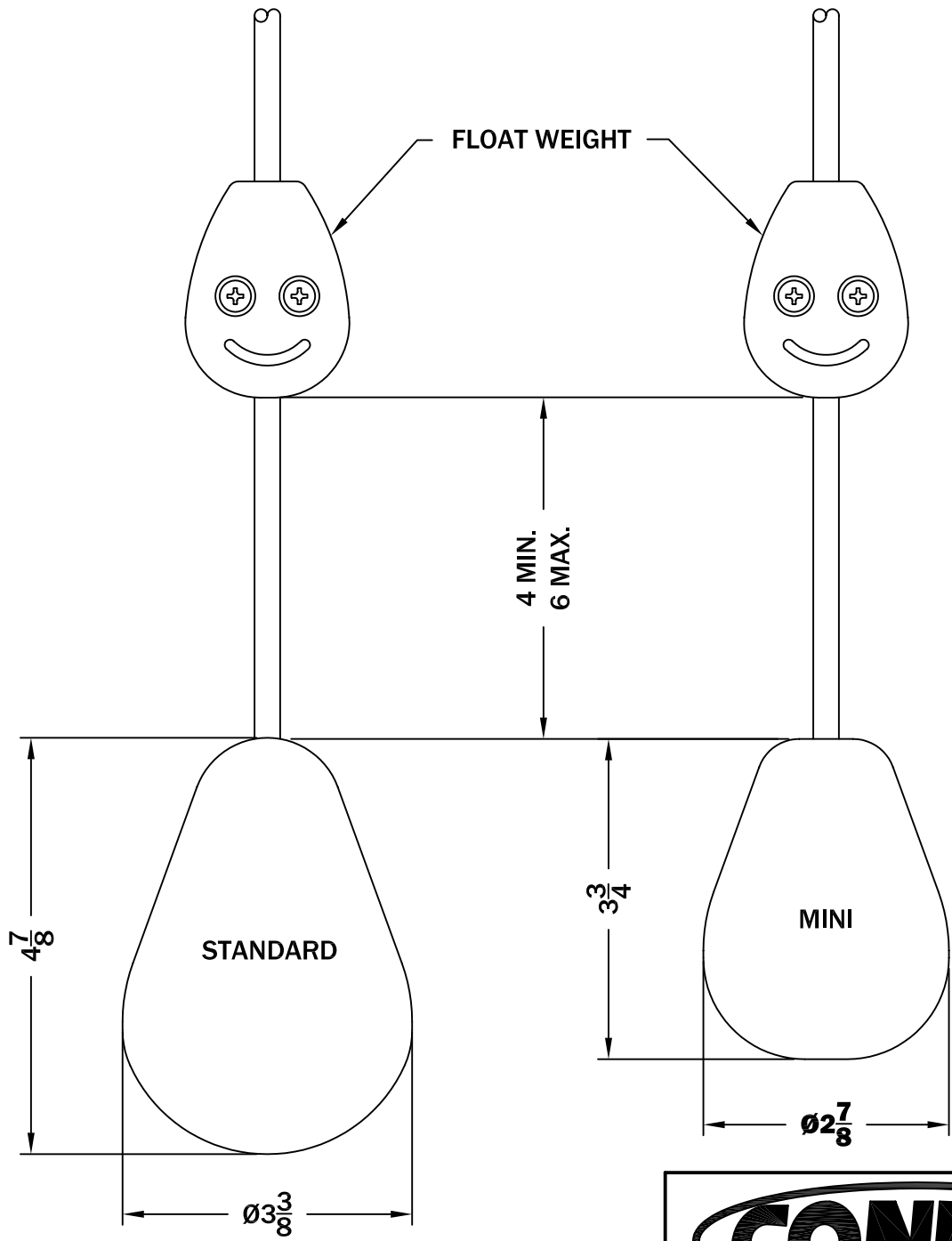FOR USE WITH INTRINSICALLY SAFE CIRCUITS.

CORD WEIGHT
ZINC PLATED CAST IRON – 1.22 LBS.
SPLIT WEIGHT DESIGN ALLOWS FOR EASY ADJUSTMENT.
DESIGN ALLOWS FOR SECURE AND PERMANENT ATTACHMENT TO CORD.

c(UL)us
LISTED
IND. CONT. EQ.
47UF

FLOAT WEIGHT

4 MIN.
6 MAX.

STANDARD

MINI

$4\frac{7}{8}$

$3\frac{3}{4}$

$\varnothing 3\frac{3}{8}$

$\varnothing 2\frac{7}{8}$

CONERY
MFG INC

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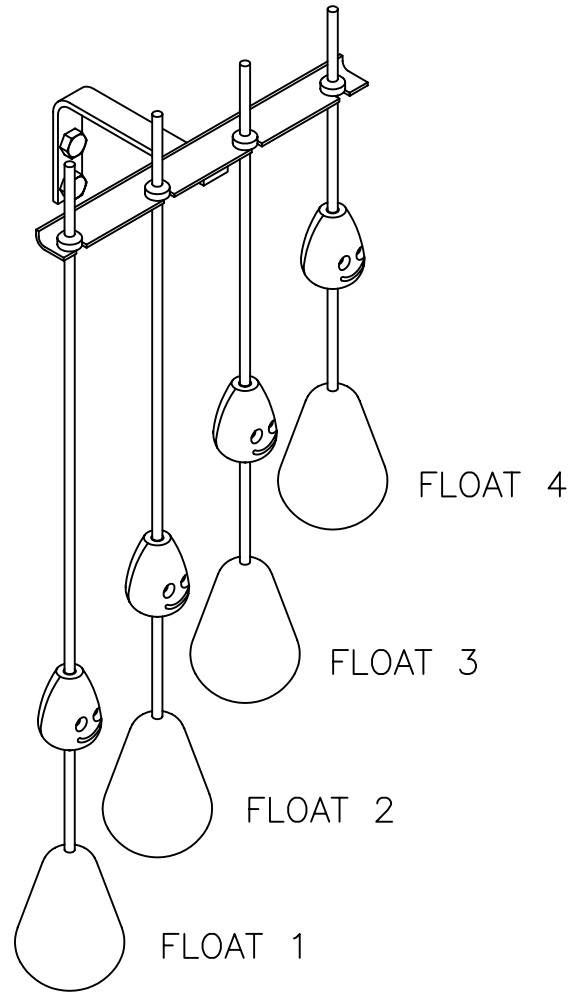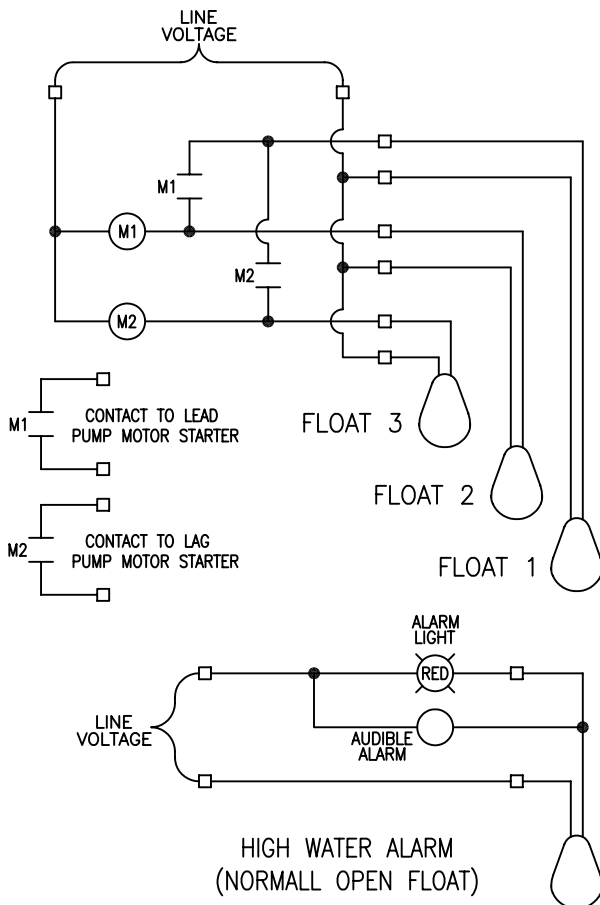   OTHER COMBUSTIBLES.

FOR PUMP DOWN USE
(NORMALLY OPEN FLOATS)
FOR PUMP UP USE
(NORMALLY CLOSED FLOATS)
FOR SPDT FLOATS
GREEN – N/O
WHITE – COMMON
BLACK – N/C

c UL us
LISTED

TYPICAL MOUNTING

FLOAT 4
FLOAT 3
FLOAT 2
FLOAT 1

TYPICAL 2 PUMP USES

LINE VOLTAGE

M1
M1
M2
M2

M1 CONTACT TO LEAD
PUMP MOTOR STARTER

M2 CONTACT TO LAG
PUMP MOTOR STARTER

FLOAT 3
FLOAT 2
FLOAT 1

ALARM LIGHT
RED
AUDIBLE ALARM

LINE VOLTAGE

HIGH WATER ALARM
(NORMALL OPEN FLOAT)

CONERY
MFG INC

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

SPECIFICATION SHEET
MERCURY FLOAT

SCALE:	PART NO.
NONE	2900 SERIES B1,B2