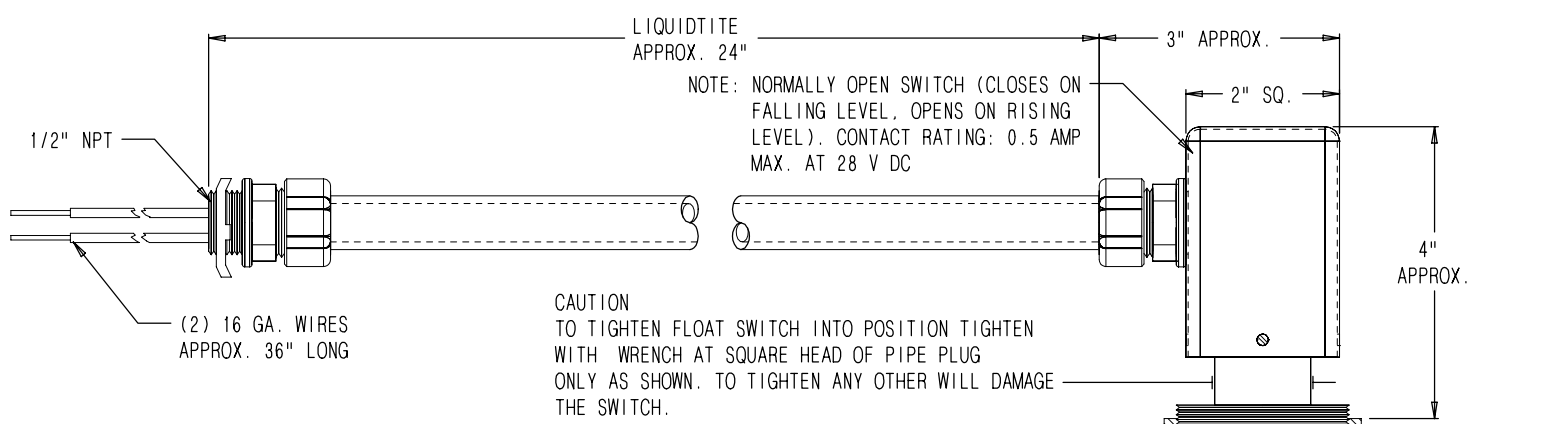


ISSUE	SUMMARY		
12	PER ECN 1775	FE	16 MAR. 98
13	4.95" was 5.25"/ECN 2532	BSH	29 JUL. 04



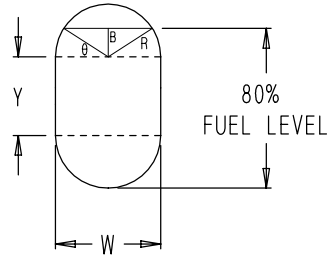
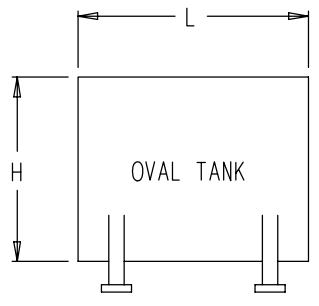
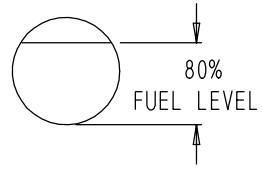
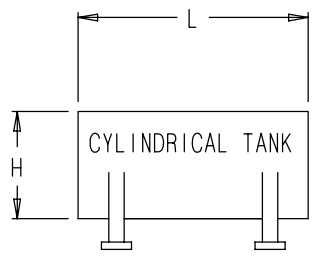
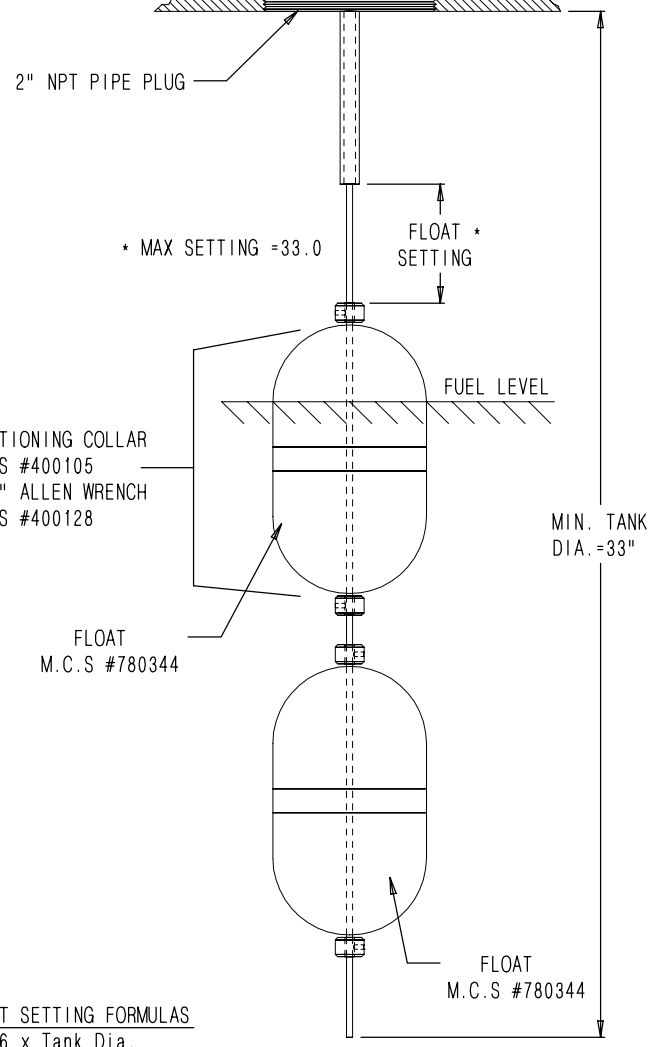
FOR CYLINDRICAL TANKS

TANK DIA.	80% FUEL LEVEL	80% FLOAT SETTING
33	24-5/8	5-1/8
34	25-3/8	5-3/8
35	26-1/8	5-5/8
36	26-7/8	5-7/8
37	27-5/8	6-1/8
38	28-3/8	6-3/8
39	29-1/8	6-5/8
40	29-7/8	6-7/8
41	30-1/2	7-1/8
42	31-3/8	7-1/2
43	32-1/8	7-5/8
44	32-7/8	7-7/8
45	33-1/2	8-1/8
46	34-3/8	8-3/8
47	35	8-3/4
48	35-3/4	9

FOR OVAL TANKS

TANK SIZE H x W	80% FUEL LEVEL	80% FLOAT SETTING
36 x 16	27-3/8	5
42 x 26	32	6-3/4
44-1/4 x 27	33-3/4	7-1/4
45 x 23	34-1/2	7-1/4
50 x 26	38-1/4	8-1/2

NOTE:  
 ALL SETTINGS ARE BASED ON THE 2" NPT PIPE PLUG BEING FLUSH WITH INSIDE EDGE OF TANK. ALSO THESE SETTINGS ARE FOR DIESEL OIL FOR ALARM AT 80% OF TANK CAPACITY



CYLINDRICAL TANK FLOAT SETTING FORMULAS  
 80% Fuel Level = 0.746 x Tank Dia.  
 Float Setting = 0.254 x (Tank Dia.) - 4.95" in Air (extended)  
 50% Fuel Level = 0.500 x (Tank Dia.)  
 Float Setting = 0.500 x (Tank Dia.) - 4.95" in Air (extended)

OVAL TANK FLOAT SETTING FORMULAS  

$$\left( [(H - W) W] + \left[ \pi \left( \frac{W}{2} \right)^2 \right] \right) 0.2 = \frac{\pi R^2 \theta}{360} - \frac{R^2 \sin \theta}{2}$$
  
 SOLVE FOR  $\theta$   

$$B = R \cos \left( \frac{\theta}{2} \right)$$
  
 80% FUEL LEVEL =  $\frac{W}{2} + Y + B$   
 FLOAT SETTING = H - 80% FUEL LEVEL - 3.25"

SCALE 3/8" = 1"

LOW FUEL SWITCH MODEL  
 4817 (LONG ROD)  
 INSTALLATION DETAILS

**MC MASTER CONTROL SYSTEMS INC.**  
 LAKE BLUFF, ILLINOIS U.S.A.

USED ON	RE-PLOT	29 JUL. 04
DRN.	FE	DES.
APP.	DATE	13 MAR. 98
DWG.	4817L	ISS. 13 SHEET 1 OF 1