



anchor scientific inc.

Box 378, Long Lake, MN 55356 / 612-473-7115 / FAX 612-473-6002

mini·float®

Form 2500-D

mini·float®

MOUNTING STYLES

DESCRIPTION

Mini-floats are pilot duty devices designed for small diameter sumps and places where space is a determining factor in the selection of a level control device. Mini-floats control the function of motor load devices, such as contactors, motor starters, and power relays, to automatically cycle a pump or pumps. They can also be used for alarm signaling devices. Two Mini-Floats are needed for a one-pump operation; three for a two-pump operation.

SPECIFICATIONS

cord OD = .29

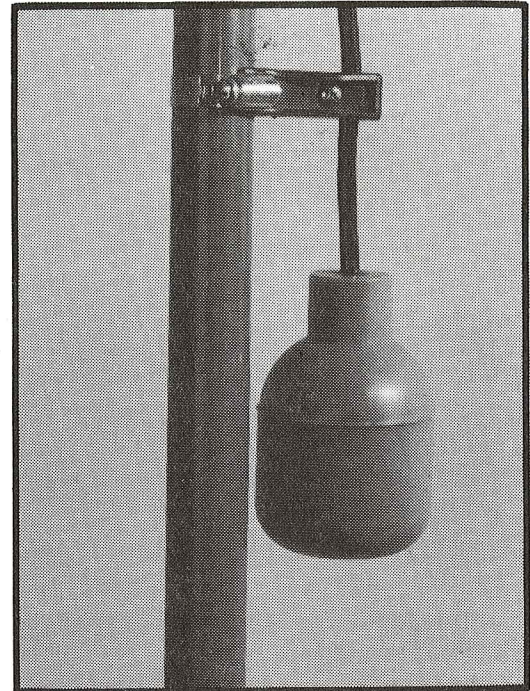
Cable 18-2 SJOW/A
 Housing Polypropylene
 Clamp Adjustable 1"-4"
 (Only on Type P models)
 Temperature Rating 60° C.

MODELS

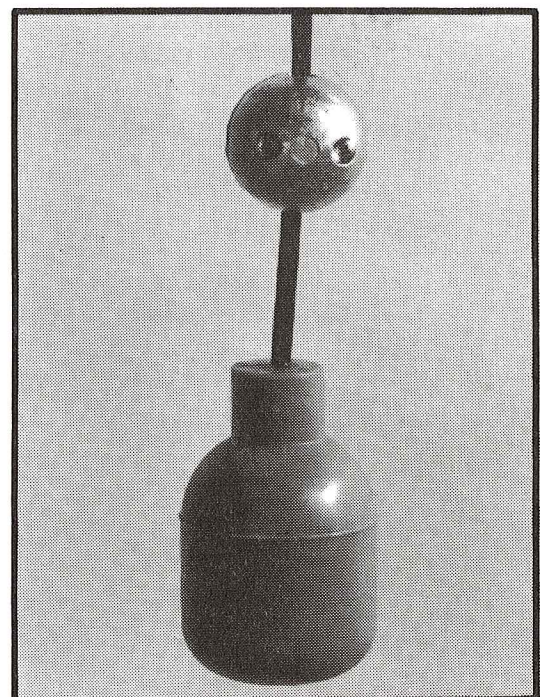
Mini-Floats are available in a combination of mounting styles, cable lengths, and circuit configurations. Mounting styles are shown at right: pipe mounted (Type P), and suspended (Type S). 10, 15, and 25-foot cable lengths are standard, but other lengths can be special ordered. Electrical configurations must be specified; normally open, (NO), for pump out applications and normally closed, (NC), for pump in applications.

EXAMPLE:

P	M	10	NO
Mounting Style	Mini-Float	Cable Length	Electrical Configuration
ELECTRICAL CONFIGURATION	CABLE LENGTH	SUSPENDED TYPE 'S'	PIPE MOUNTED TYPE 'P'
		MODEL NO.	MODEL NO.
NORMALLY OPEN	10	S M 10 NO	P M 10 NO
	15	S M 15 NO	P M 15 NO
	20	S M 20 NO	P M 20 NO
	25	S M 25 NO	P M 25 NO
	30	S M 30 NO	P M 30 NO
NORMALLY CLOSED	10	S M 10 NC	P M 10 NC
	15	S M 15 NC	P M 15 NC
	20	S M 20 NC	P M 20 NC
	25	S M 25 NC	P M 25 NC
	30	S M 30 NC	P M 30 NC

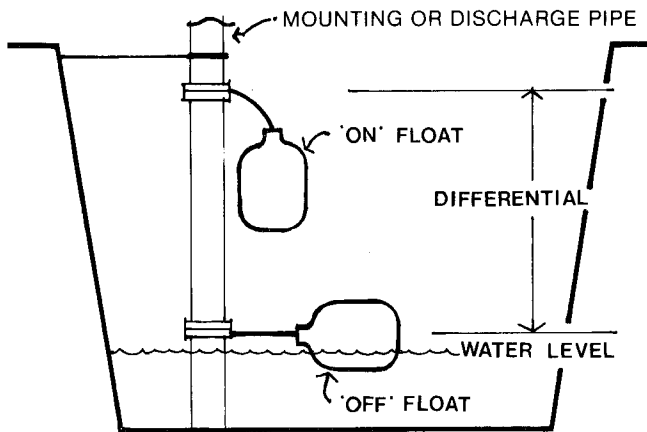


TYPE P - M



TYPE S - M

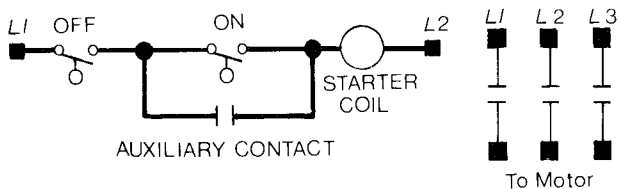
TYPICAL INSTALLATION



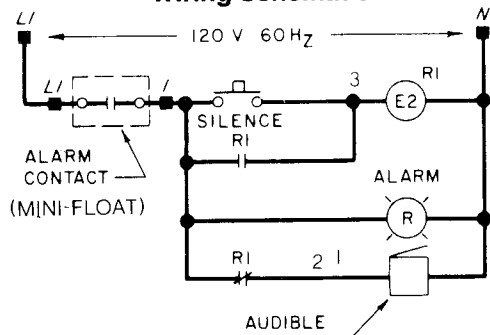
General Comments

- 1) Never work in the sump with the power on.
- 2) Attach the Type P Mini-Floats to the mounting pipe or the pump discharge pipe. The 'off' float should be below the 'on' float in a 'pump out' application.
- 3) Arrange the Mini-Floats so they do not tangle or hang up.
- 4) Thread the cable strap through the buckle with the ratchet pawl; cinch up tight; thread excess strapping through outer buckle slot.
- 5) Measuring the difference between mounting points gives the 'pump down' differential.

Typical Simplex Wiring Schematic



Typical Alarm Wiring Schematic



SPECIFICATIONS

Cable - 18-2 SJO W/A 34 x 41 strand. 90°C.
DIAMETER .30

Float - Polypropylene.

Clamp - Stainless Steel.



Ind. Con. Eq.
125 VA @ 115 VAC

Component Switch Rating 4.5A @ 120V., Res.
2.2A @ 230V., Res.

Temperature Rating - 60 C.

Normally Open - Blue Housing

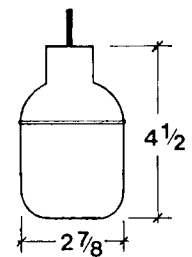
Normally Closed - Red Housing

ELECTRICAL CONFIGURATION	CABLE LENGTH	SUSPENDED TYPE 'S'	PIPE MOUNTED TYPE 'P'
		MODEL NO.	MODEL NO.
NORMALLY OPEN	10	SM 10 NO	P M 10 NO
	15	SM 15 NO	P M 15 NO
	20	SM 20 NO	P M 20 NO
	25	SM 25 NO	P M 25 NO
	30	SM 30 NO	P M 30 NO
NORMALLY CLOSED	10	SM 10 NC	P M 10 NC
	15	SM 15 NC	P M 15 NC
	20	SM 20 NC	P M 20 NC
	25	SM 25 NC	P M 25 NC
	30	SM 30 NC	P M 30 NC

SUBMITTAL APPROVAL

NAME _____

DATE _____



Float Dimensions

* Important Notes - Mini-floats are pilot duty devices. They cannot be used to directly power pump motors. Also, do not use Mini-Floats in gasoline or other combustibles. These devices can be used with intrinsically safe relays for some hazardous locations. See Sec. 500 of NEC.

This product contains mercury. Dispose of in accordance with Local, State and Federal Regulations so that mercury does not contaminate the environment.

DWN BY PD	DATE 7-17-80
CKD BY JTP	DATE 7-20-80
APPD BY JTP	DATE 7-20
PROJECT NAME Mini-Float	
FACTORY ORDER NO.	



anchor scientific inc.

Industrial Park, Long Lake, Mn. 55356
612-473-7115

Typical installation and specification data for Mini-Floats

DWG. NO.

2510-B