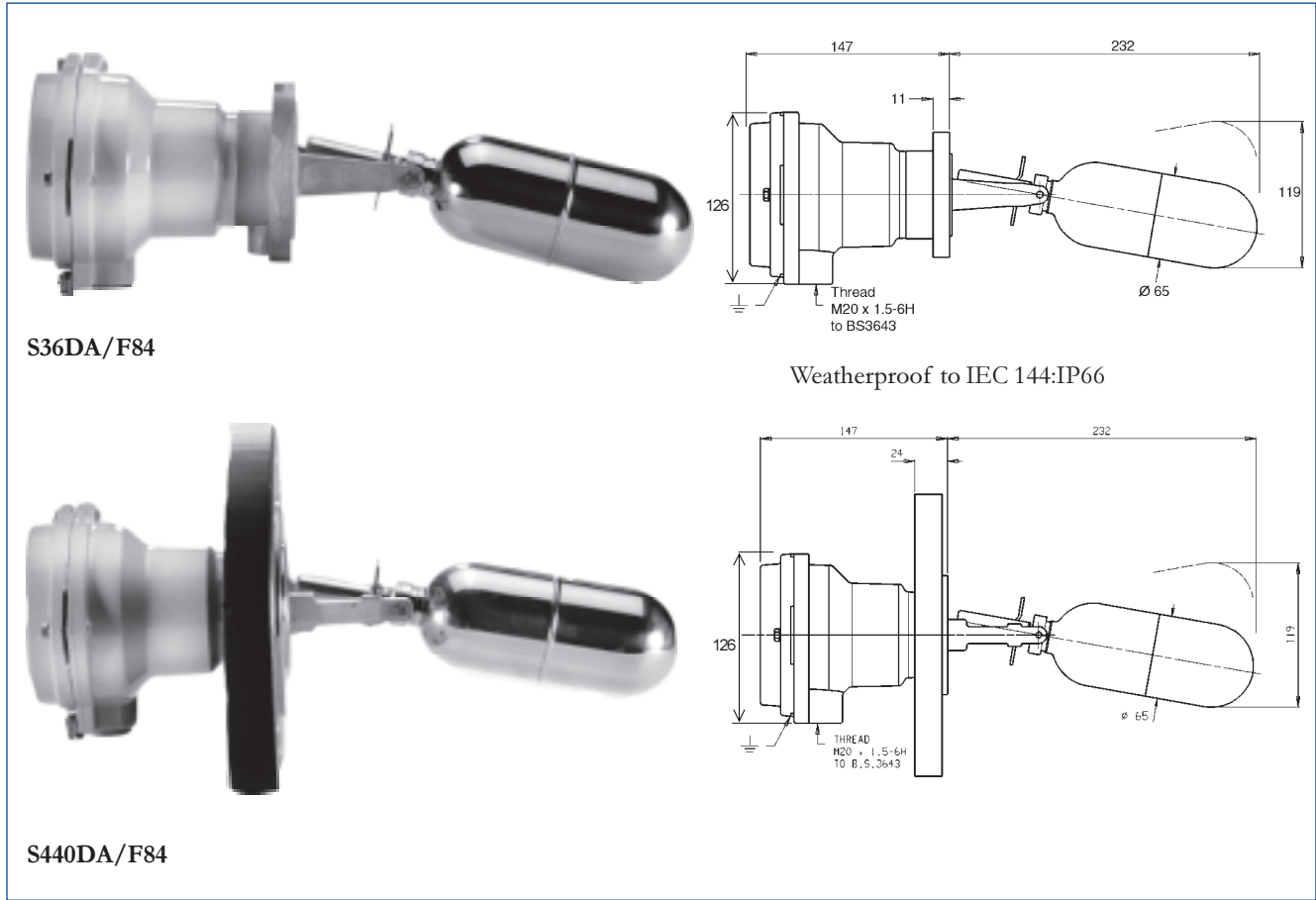


# GENERAL PURPOSE APPLICATIONS

## STAINLESS STEEL WETSIDE MODELS



### SPECIFICATIONS

ELECTRICAL MODELS	
<b>Back flange (where fitted)</b>	Carbon steel to BS 1501: 224 Grade 430B LT50. This material has guaranteed properties at both high (400°C) and low (-50°C) temperatures.
<b>Wetside material</b>	Painted surfaces are stove paint finish. All unpainted surfaces are corrosive protected. Stainless steel to BS 1504 : 316 C16.
<b>Enclosure housing material:</b>	Stainless steel to type 316 to Mobrey standard (S36 model only). Aluminium alloy to BS1490: Grade LM24
AIR PILOT VALVE MODELS	
<b>Valve block</b>	Aluminium alloy to BS 1490: Grade LM25 - chromate phosphate treated.
<b>Finish:</b>	All surfaces are chromate phosphate treated then externally stove painted.

Maximum temperature dependent on switch mechanism, gasket and gland - see pages 4 and 5

### APPROVALS

Lloyds Register of Shipping
Germanischer Lloyd
CSA
DNV
ABS
BV
RINA
RM

### STOCK AVAILABILITY

Models available from stock	General purpose	
	S36DA/F84	S440DA/F84
	S36DA/F104/1	S36DA/F68/1
	S190DA/F93	S36DA/F68/4
	S428DA/F84	S36DA/F21/1
	S429DA/F84	S36DA/F21/2
		S36DA/F21/3

Other approvals available.  
Please contact us with your requirements.

### 3.1.1. ORDERING INFORMATION

CODE	General purpose stainless steel wetside models			
S	Switch			
	CODE	Flange (Head) Size	Rating	Standard
	36	Mobrey A	33.8 bar	Mobrey
	190	Mobrey A	33.8 bar	Mobrey : Use float F93 only
	440	3"	150 RF	To BS 1560 or ANSI B 16.5
	441	4"	150 RF	
	424	3"	300 RF	
	425	4"	300 RF	
	489	3"	600 RF	
	490	3"	900 RF	
	428	DN 65	PN 16	to BS 4504 or DIN 2633
	429	DN 80		
	430	DN 100		
	431	DN 125		
	432	DN 150		
	417	DN 65		
	418	DN 80		
	419	DN 100		
	433	DN 125		
	434	DN 150		
	488	DN 80	PN 64	To BS 4504 or DIN 2636
	435	DN 100		
	436	DN 125		
	437	DN 150		
	CODE	Switch Mechanism		
	D	4 Contact - General		
	P	4 Contact - Gold Plated Contacts		
	D6	6 Contact - General		
	P6	6 Contact - Gold Plated Contacts		
	H6	6 Contact - Hermetically Sealed		
	B6	6 Contact - Zone II Areas		
	AP	Pneumatic - On/Off		
	AM	Pneumatic - Modulating		
	CODE	Enclosure / Housing		
	A	Aluminium alloy		
	CODE			
	F84	General Purpose		
	F96	High alarm or		
	F98	Low Alarm or		
	F106	2 off for Pump		
	F107	Control Wide, Differential		
	F68/+	Pump Control Horizontal		
	F21/+	Vertical : Pump Control or Alarm		
	F104/+	Cranked Arm : Horizontal or Vertical		
	F88	Interface Duty		
	F93	Shrouded for dirty liquids (S190 only) Silicone rubber gaiter with 316SS shroud and float.		
S	36	D	A	/ F84

+ Refer to pages 18, 19 and 20 for technical float details and length options

Refer to page 14 for nozzle and stud lengths.

### SWITCH/FLOAT COMBINATION CHART

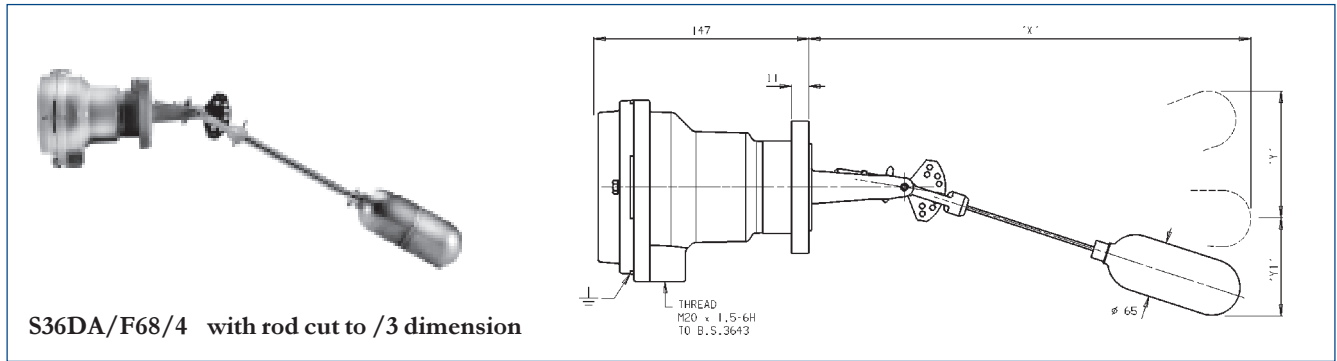
S No. F No.	S36	S190	S417	S418	S419	S424	S425	S428	S429	S430	S431	S432	S433	S434	S435	S436	S437	S440	S441	S488	S489	S490
F84	★		●	●	●	●	●	★	★	★	★	★	●	●	●	●	●	★	★	●	●	●
F96	●		★	★	★	★	★	●	●	●	●	★	★	★	★	★	★	●	●	★	●	●
F98	★		●	●	●	●	●	★	★	★	★	★	●	●	●	●	●	★	★	●	●	●
F106	●		★	★	★	★	★	●	●	●	●	●	★	★	★	★	★	●	●	★	●	●
F107	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	★	★
F68/+	★		●	●	●	●	●	★	★	★	★	★	●	●	●	●	●	★	★	●	●	●
F21/+	★		●	●	●	●	●	★	★	★	★	★	●	●	●	●	●	★	★	●	●	●
F104/+	★		●	●	●	●	●	★	★	★	★	★	●	●	●	●	●	★	★	●	●	●
F88	★		★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	●	●
F93		★																				

Notes: ★ Preferred combination

● Non-preferred combination

# FLOAT SPECIFICATION

## HORIZONTAL F68 PUMP CONTROL AND ALARM FLOAT



S36DA/F68/4 with rod cut to 2/3 dimension

Switches fitted with F68 type float unit may be adjusted on site to meet pump control differential requirements.

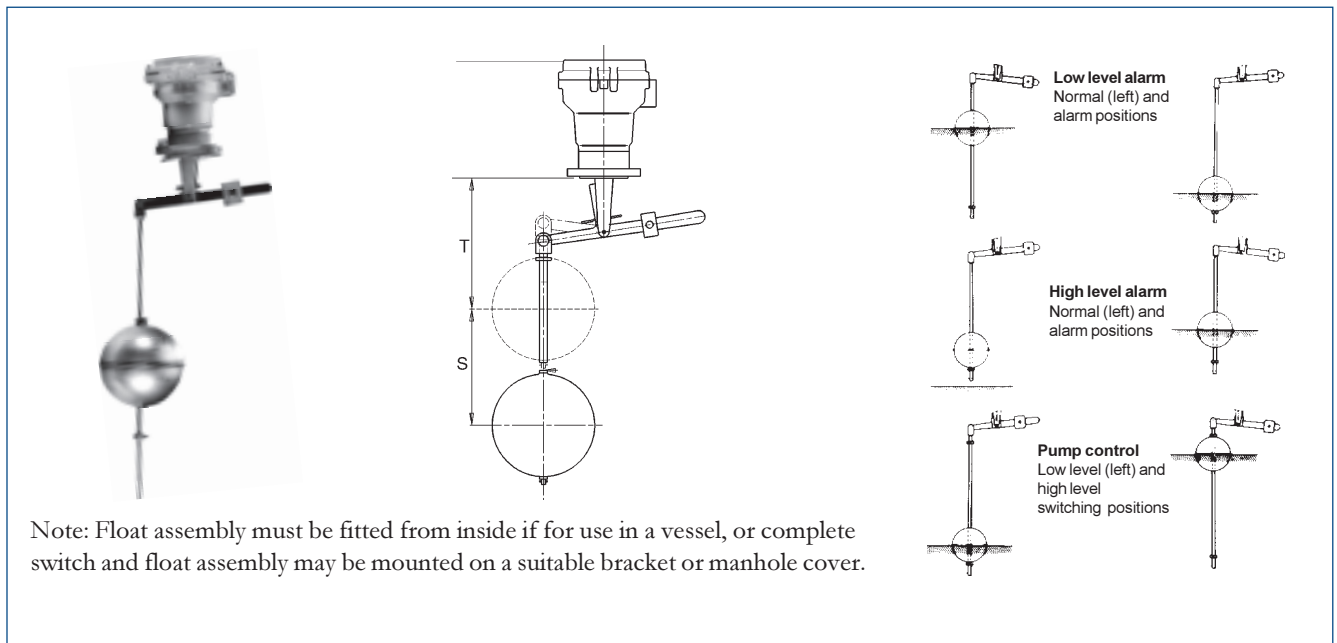
The float is available as a F68/1 or F68/4.

The F68/4 has pre-drilled holes along the rod to allow the user to achieve the 1/2 and 2/3 differentials in the table below:

Maximum intrusion	F68/1	F68/2	F68/3	F68/4
Wetside (mm) x	360	470	590	643
Minimum SG	0.72	0.8	0.82	0.85
Minimum tank dimension above/below centre line (mm)	216	292	368	406
Maximum differential (mm)	247	360	483	555

Full details of the operating levels and differentials are in the manual. Note, these dimensions are approximate for cold water and will vary for liquids of different SG.

## VERTICAL F21 PUMP CONTROL AND ALARM FLOAT



Note: Float assembly must be fitted from inside if for use in a vessel, or complete switch and float assembly may be mounted on a suitable bracket or manhole cover.

Float rod lengths available :F21/1: 1524mm (5')  
 F21/2: 3048mm (10')  
 F21/3: 4570mm (15') max.

Float rods may be cut to length on site and switches set to operate at required level in either pump control or alarm mode by following the setting instructions supplied.

Type Number	Pump Differential "S"	Alarm Levels	
		Minimum "T"	Maximum "S"
F21/*	13-4420*	172	4400*

\* When maximum rod length specified