

# Float Type Flow Switch



measuring  
•  
monitoring  
•  
analyzing

## S-Series



- $\pm 5\%$  Full Scale Accuracy
- Compact, Economical Design
- Direct Reading Scales for Water or Air
- Inline Connections for Easy Installation
- Brass or Stainless Steel Construction



KOBOLD companies worldwide:

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## Float Type Flow Switch Model S

### Description

KOBOLD S-Series flow switches work on the well known variable area principle but without the use of the typical, open conical measuring tube. Instead, these devices use a cylindrical control tube with a conical groove along its axis. This enables a very compact design. The flow switch can be used for economical, continuous control of water and air to help insure that excessive or low flows are suitably detected and do not result in equipment damage.



### Specifications

**Accuracy:** ±5% of Full Scale  
**Flow Media:** Water or Air  
**Mounting:** Vertical Flow, Bottom to Top  
**Measuring Principle:** Float with Cylindrical Control Tube  
**Mode of Operation:** Dependent on Flow, not Pressure  
**Maximum Temperature:** 240 °F,  
 160 °F with PP or PVDF Float  
**Maximum Pressure:** 3600 PSIG for Brass Units,  
 5000 PSIG for SS Units,  
 230 PSIG with PP or PVDF Floats

### Wetted Parts

**Housing:** Brass or 304 SS  
**Slotted Nozzle:** Brass or 304 SS  
**Float:** Brass, 304 SS,  
 Polypropylene or PVDF  
**Seals:** NBR for Brass Units,  
 FKM for SS Units

**Electr. Switch Housing:** Plastic  
**Reed Contact:** Standard: N/O, Optional: SPDT  
 Max. 230 VDC/0.26 A/60 W  
 60 VDC/1 A/60 W  
 Max. 240 VAC/0.42 A/100 W  
 100 VAC/1 A/100 W  
 cCSAus Approved  
**Electrical Connection:** Standard: DIN 43 650 w/Cable Gland  
 Optional: DIN 43 650 w/1/2" NPT Conduit  
**Electrical Protection:** NEMA 4X / IP65

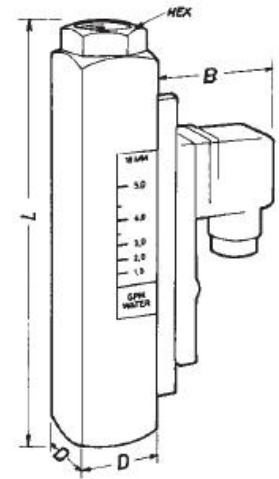
### Order Details (Example: S-3102 B)

Range Water (GPM)	Standard Connection (NPT)	Press. Drop Max. (PSI)	Float Material		Flow Switch 1 N/O Contact, Water, Stand. Connection		Flow Switch 2 N/O Contact, Water, Stand. Connection		Options		
			Brass	SS	Brass	SS	Brass	SS	Special Conn. (NPT) Suffix ".B"	Range Air (SCFM) Suffix ".L"	Switch Options
0.075...0.25	1/4"	0.29	PP	PVDF	S-3101	S-3201	S-4101	S-4201	1/2"	0.2...1.1	Suffix ".C" = 1/2" NPT Conduit Fitting Suffix ".U" = SPDT Contact Suffix ".R" = Extra Contact Mounted
0.1...0.6	1/4"	0.29	PP	PVDF	S-3102	S-3202	S-4102	S-4202	1/2"	0.3...2.5	
0.3...2.3	1/4"	1.60	Brass	SS	S-3108	S-3208	S-4108	S-4208	1/2"	1.2...8.0	
0.75...4.0	1/4"	2.90	Brass	SS	S-3115	S-3215	S-4115	S-4215	1/2"	2.0...15	
1.0...5.0	1/4"	8.70	Brass	SS	S-3120	S-3220	S-4120	S-4220	1/2"	3...20	
0.6...12	3/4"	3.22	Brass	SS	S-3150	S-3250	S-4150	S-4250	-	2.5...50	
1.0...14	3/4"	5.80	Brass	SS	S-3170	S-3270	S-4170	S-4270	-	3.0...70	

Dimensions

Float Type Flow Switch 1 N/O Contact : S-3...

Order Number		HEX	D	L		B	Weight Approx. (lbs)
Brass	SS			Stand.	Suffix "B"		
S-3101 to S-3120	S-3201 to S-3220	1.06"	1.18" x 1.18"	5.20"	5.35"	2.09"	2.20
S-3150 to S-3170	S-3250 to S-3270	-	1.57" x 1.57"	6.14"	n/a	2.09"	3.75



Float Type Flow Switch 2 N/O Contacts : S-4...

Order Number		HEX	D	L		B	Weight Approx. (lbs)
Brass	SS			Stand.	Suffix "B"		
S-4101 to S-4120	S-4201 to S-4220	1.06"	1.18" x 1.18"	5.20"	5.35"	2.09"	2.76
S-4150 to S-4170	S-4250 to S-4270	-	1.57" x 1.57"	6.14"	n/a	2.09"	4.30

