

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:

Order from: **C A Briggs Company**

622 Mary Street; Suite 101; Warminster, PA 18974

Phone: 267-673-8117 - Fax: 267-673-8118

Sales@cabriggs.com - www.cabriggs.com

KOBOLD Instruments, Inc.
1801 Parkway View Drive
Pittsburgh, PA 15205



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/½" NPT Conduit
Electrical Protection:	NEMA 4X / IP65

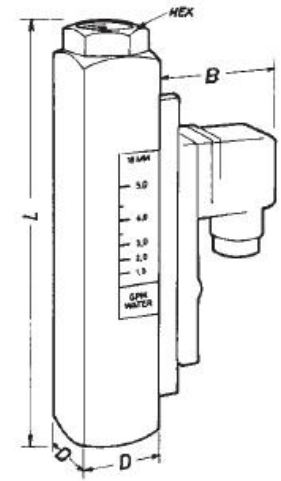
Order Details (Example: S-3102 B)

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" = ½" 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

