

Float Type Flowmeters and Flow Switches



measuring
•
monitoring
•
analyzing

SV



- $\pm 5\%$ Full Scale Accuracy
- Lightweight, Compact Design
- Direct Reading Scales for Water or Air
- Wide Measuring Range
- Vertical Connections for Easy Installation
- Nickel-Plated Brass or Stainless Steel Process Connections



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Float Type Flowmeters and Flow Switches Model SV

Description

The KOBOLD SV flowmeters and switches work on the well-known float system, but without the use of the open conical measuring tube. Instead, the instruments use a cylindrical control tube with a conical groove along its axis. The upper edge of the float indicates the flow rate via the scale printed upon the glass metering tube, calibrated in GPM (water) or SCFM (air).

Specifications

Accuracy:	±5% of full scale
Flow Media:	Water or air
Mounting:	Vertical, upward media flow
Measuring Principle:	Float with cylindrical control tube
Max. Temperature:	212°F with metal float, 158°F with PP/PVDF float
Maximum Pressure:	145 PSI
Housing:	Gold anodized aluminum
Slotted Nozzle:	Ni-plated brass or 304 SS
Float:	Ni-plated brass, 304 SS, Polypropylene, or PVDF
Fittings:	Ni-plated brass or 304 SS
Seals:	NBR for brass units, FKM for SS units
Electr. Switch Housing:	Plastic
Measuring Tube:	Borosilicate glass
Electrical Protection:	IP65
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



Order Details (Example: SV-7111 L U)

Range Water (GPM)	Stand. Conn. (NPT)	Press. Drop Max. (PSI)	Float Material		Flowmeter (Water)		Flowmeter 1 N/O Contact (Water)		Flowmeter 2 N/O Contacts (Water)		Options		
			Brass	SS	Brass	SS	Brass	SS	Brass	SS	Air Range (SCFM) Suffix ..L	Optional Conn. (NPT) Suffix ..B	Special Contact Suffix ..U
0.075...0.35	1/4"	0.58	PP	PVDF	SV-5101	SV-5201	SV-6101	SV-6201	SV-7101	SV-7201	0.6*...2.0*	1/2"	SPDT Contact
0.2...0.7	1/4"	0.87	Brass	SS	SV-5102	SV-5202	SV-6102	SV-6202	SV-7102	SV-7202	1.0...2.6	1/2"	
0.1...0.7	1/4"	0.58	PP	PVDF	SV-5103	SV-5203	SV-6103	SV-6203	SV-7103	SV-7203	0.5...3.0	1/2"	
0.2...1.2	1/4"	0.58	PP	PVDF	SV-5104	SV-5204	SV-6104	SV-6204	SV-7104	SV-7204	1...6.0	1/2"	
0.2...1.4	1/4"	1.31	Brass	SS	SV-5105	SV-5205	SV-6105	SV-6205	SV-7105	SV-7205	1.5...6	1/2"	
0.5...2.7	1/2"	0.58	PVDF	PVDF	SV-5106	SV-5206	SV-6106	SV-6206	SV-7106	SV-7206	2...12	3/4"	
1...4.5	1/2"	1.02	Brass	SS	SV-5107	SV-5207	SV-6107	SV-6207	SV-7107	SV-7207	2...18	3/4"	
0.5...6	3/4"	0.87	PP	PVDF	SV-5108	SV-5208	SV-6108	SV-6208	SV-7108	SV-7208	1...20	1"	
0.5...6.6	3/4"	1.16	PVDF	PVDF	SV-5109	SV-5209	SV-6109	SV-6209	SV-7109	SV-7209	1...27.5	1"	
1...11	3/4"	1.45	Brass	SS	SV-5110	SV-5210	SV-6110	SV-6210	SV-7110	SV-7210	2.5...40	1"	
0.5...12	3/4"	2.03	Brass	SS	SV-5111	SV-5211	SV-6111	SV-6211	SV-7111	SV-7211	2.5...55	1"	
2.5...20	1"	4.35	Brass	SS	SV-5112	SV-5212	SV-6112	SV-6212	SV-7112	SV-7212	10...100	-	
2.5...40	1 1/4"	5.80	PP	PVDF	SV-5113	SV-5213	SV-6113	SV-6213	SV-7113	SV-7213	10...150	-	

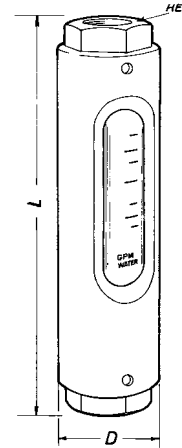
*Stated Range is for Stainless Steel Models Only, Actual Range for Brass Models is 0.25...1.25 SCFM



Dimensions

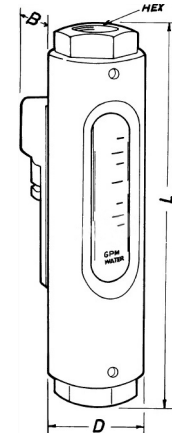
Float Type Flowmeter: SV-5..

Order Number		HEX	D	L		Weight Approx. (lbs)
Brass	SS			Stand.	Suffix ..B	
SV-5101 to SV-5107	SV-5201 to SV-5207	1.26"	1.69"	6.34"	6.50"	1.65
SV-5108 to SV-5111	SV-5208 to SV-5211	1.61"	1.89"	6.50"	6.93"	2.20
SV-5112	SV-5212	1.61"	1.89"	8.03"	-	2.65
SV-5113	SV-5213	1.81"	2.17"	8.74"	-	3.31



Float Type Flowmeter and Switch with 1 N/O Contact: SV-6..

Order Number		HEX	D	L		B	Weight Approx. (lbs)
Brass	SS			Stand.	Suffix ..B		
SV-6101 to SV-6105	SV-6201 to SV-6207	1.26"	1.69"	6.34"	6.50"	2.09"	2.20
SV-6106 to SV-6107	SV-6206 to SV-6207	1.26"	1.69"	6.50"	6.93"	2.09"	2.76
SV-6108 to SV-6111	SV-6208 to SV-6211	1.61"	1.89"	6.50"	6.93"	2.09"	2.76
SV-6112	SV-6212	1.61"	1.89"	8.03"	-	2.09"	3.20
SV-6113	SV-6213	1.81"	2.17"	8.74"	-	2.09"	3.86



Float Type Flowmeter and Switch with 2 N/O Contacts: SV-7..

Order Number		HEX	D	L		B	Weight Approx. (lbs)
Brass	SS			Stand.	Suffix ..B		
SV-7101 to SV-7105	SV-7201 to SV-7207	1.26"	1.69"	6.34"	6.50"	2.09"	2.76
SV-7106	SV-7206	1.26"	1.69"	6.50"	6.93"	2.09"	2.76
SV-7107	SV-7207	1.26"	1.69"	6.50"	6.93"	2.09"	3.31
SV-7108 to SV-7111	SV-7208 to SV-7211	1.61"	1.89"	6.50"	6.93"	2.09"	3.31
SV-7112	SV-7212	1.61"	1.89"	8.03"	-	2.09"	3.75
SV-7113	SV-7213	1.81"	2.17"	8.74"	-	2.09"	4.41

