## MISC. DEVICES | LIQUID FLOW SWITCH | SFIK-US



## SF1K-US

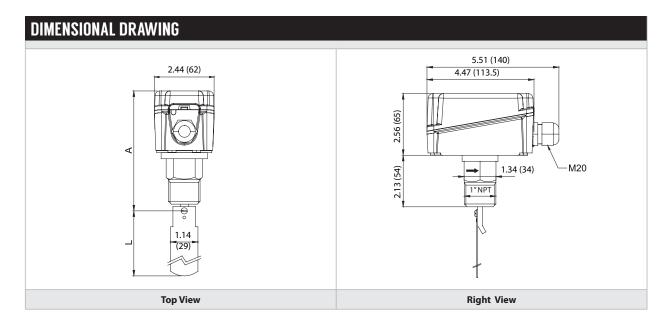
**Liquid Flow Switch**ACI's liquid flow switch is a mechanical switch for the detection and verification of liquid flow. The flow switch is designed to be used in 1 to 8" (25.4 to 203.2 mm) diameter pipe sizes. The switch mounts into a 1" NPT pipe connection. The enclosure carries a IP65 rating with ½" conduit connection. The switch includes various 316 stainless steel paddles. The paddle size to install will be determined by the pipe size and flow rate. When liquid pushes against the paddle, it triggers a SPDT micro switch that is controlled by a manually adjustable set point.

Common application areas include heating and air conditioning systems, refrigeration systems, heat pumps, water fire suppression, and many more.

Applications: Monitoring flow in heating and air conditioning systems, refrigeration systems, heat pumps, water fire suppression

The SF1K Series Flow Switches are covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, workaci.com.

PRODUCT SPECIFICATIONS			
Contact Form:	Form 1C (SPDT Contact)		
Contact Rating:	15 (8) A, 24 to 250 VAC		
Pipe Size:	1 to 8" (25.4 to 203.2 mm) Diameter		
Maximum Pressure:	159.5 PSI (11 bar)		
Flow Rate:	See Flow Rate Table Below		
Connection:	NPT 1"		
Body Material:	Brass		
Paddle Material:	Stainless steel AISI 316L		
Housing Material:	Base in ABS, transparent PC cover		
Housing Operating Temperature   Humidity:	-40 to 85°C (-40 to 185°F)   10 to 90% RH, non-condensing		
Maximum Liquid Temperature:	-40 to 120°C (-40 to 248°F)		
Recommended Storage Temperature  Humidity:	-40 to 85°C (-40 to 185°F)		
Enclosure Ratings:	IP65, Class 1		
Product Dimensions (L x W x H):	5.51" (140 mm) x 2.44" (62 mm) x 2.56" (65 mm)		
Approvals:	CE		
Product Weight:	2.1 lbs. (0.95 kg)		







120 FLOW RATE SFIK						
Pipe Connector Qmax GPM (m3/h) Recommended		Min. Adjustment GPM (m³/h)		Max. Adjustment GPM (m³/h)		
	Cut-Off	Cut-In	Cut-Off	Cut-In		
1"	15.9 (3.6)	2.6 (0.6)	4.4 (1.0)	8.8 (2.0)	9.2 (2.1)	
1 1/4"	26.4 (6.0)	3.5 (0.8)	5.7 (1.3)	12.3 (2.8)	13.2 (3.0)	
1 1/2"	39.6 (9.0)	4.8 (1.1)	7.5 (1.7)	16.3 (3.7)	17.6 (4.0)	
2"	66.0 (15.0)	9.7 (2.2)	13.6 (3.1)	25.1 (5.7)	26.9 (6.1)	
2 1/2"	105.7 (24.0)	11.9 (2.7)	17.6 (4.0)	28.6 (6.5)	30.8 (7.0)	
3"	158.5 (36.0)	18.9 (4.3)	27.3 (6.2)	47.1 (10.7)	50.2 (11.4)	
4"	264.2 (60.0)	50.2 (11.4)	64.7 (14.7)	122.0 (27.7)	127.7 (29.0)	
4" Z	264.2 (60.0)	26.9 (6.1)	35.2 (8.0)	76.2 (17.3)	81.0 (18.4)	
5"	413.9 (94.0)	100.8 (22.9)	125.0 (28.4)	234.7 (53.3)	244.8 (55.6)	
5"Z	413.9 (94.0)	40.9 (9.3)	56.8 (12.9)	111.0 (25.2)	118.0 (26.8)	
6"	528.3 (120.0)	158.1 (35.9)	189.8 (43.1)	359.7 (81.7)	374.7 (85.1)	
6" Z	528.3 (120.0)	54.2 (12.3)	74.0 (16.8)	134.7 (30.6)	144.0 (32.7)	
8"	1,056.7 (240.0)	319.6 (72.6)	374.7 (85.1)	729.6 (165.7)	759.5 (172.5)	
8" Z	1,056.7 (240.0)	170.0 (38.6)	204.7 (46.5)	399.8 (90.8)	414.8 (94.2)	

For models with suffix "Z" the longest paddle must be used to obtain the values indicated on the table.

Pressure drop at the maximum flow (Qmax): 1.2 PSI (0.08 bar)

STANDARD ORDERING				
ACI Model #	Item #	Description		
SF1K-US	151604	Liquid Flow Switch, SPDT, IP65, Paddle Kit, 1-8" Pipe Size		