

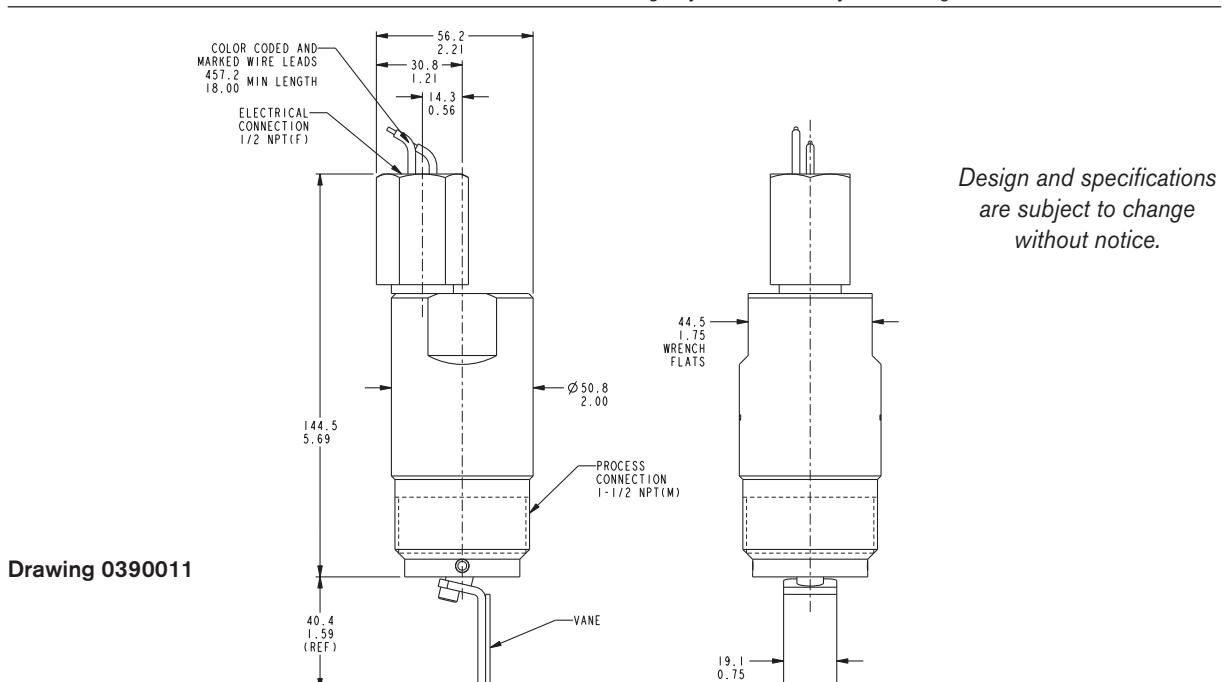
1520 Top Mounted Flow Switch

Form 499CM

1520 is a vertically mounted, vane-operated flow switch suitable for plant and OEM applications where open or closed contacts are required to signal flow or no flow conditions. The vane extension arm moves a magnet that actuates (deactuates) a hermetically sealed reed switch.



Dimensions



Product Specifications

Mounting	Vertical mount only	
Orientation	1-1/2" through 6"	
Connection Size	NPT(M) or Flanged	
Connection Type		
Maximum Process Pressure*	5000 psi (345 bar)	
Process Temperature Range	-40 to 400°F (-40 to 204°C)	
Electrical		
Switch Type	Hermetically sealed reed switch with 18" 20 AWG wire leads	
Housing	Class I, Group A, B, C & D; Division 1 & 2 with CS option	
Optional Relay Housing	Class I, Groups C & D, Divisions 1 & 2 with CS option	
Connection Size	1/2" NPT(F)	
Minimum Flow Rate	1 FPS	
Design Code	ANSI B31.3	
Shipping Weight	Approximately 6 lbs. (3 kg)	
Agency Listing	CSA Certified (US & Canada) and ANSI/ISA 12.27.01, ATEX and IEC approved (optional). See page 2.	

*Agency certifications may affect ratings. See Accessories for details.

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How to Order

Model Number System

Switch Mechanisms

Amperages based on resistive loads

General Purpose	SPST	0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum	a
General Purpose	SPDT	0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum	b
Low Power	SPST	25 Watts Max	c
Low Power	SPDT	25 Watts Max	d

Process Connections

Threaded:	1 1/2" NPT(M) 2" NPT(M)	a b
Flanged: (Available with 316SS body only)		
May affect process pressure rating.	2 1/2" 150# 300# 600#	c d e
	3" 150# 300# 600#	f g h
	4" 150# 300#	i j
	6" 150# 300#	k l

Body Material

303SS (Standard)	a
316 Stainless Steel	b

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Optional Accessories

Insert accessory designator(s) as needed

- a* ATEX and IECEx dual approved.
Ex d IIC Ga/Gb T4 (-40°C < Ta < +90°C),
T5 (-40°C < Ta < +75°C) and
Ex ia IIC T3 (-40°C < Ta < +125°C)
- b* ATEX and IECEx approved. Ex ia IIC T3
(-40°C < Ta < +125 °C)
- c 3/4" NPT(F) conduit connection
- d* CSA Certified. Class 1, Group A, B, C, D;
Divisions 1 & 2. For relay option;
Class 1, Group C & D, Divisions 1 & 2.
Single seal ambient & process
temperatures -40°C to +125°C
Additional seal not required.
- e 316 stainless steel terminal block housing.
CSA Certified Class I, Groups A, B, C
& D; Class II, Groups E, F, & G, Class III;
Division 1 (NEMA 4X)
- f NACE construction - MR 01-75 / ISO
15156 2003. Available only with
316SS materials of construction
- g** 24 VDC powered DPDT relay in explosion
proof terminal box. Contact rating:
10 amps @ 115 VAC. Class I,
Group C, D; Divisions 1 & 2.
- h** 120 VAC powered DPDT relay in
explosion proof terminal box. Contact
rating: 10 amps @ 115 VAC. Class I,
Group C, D; Divisions 1 & 2
- i Tag, stainless steel. (Attached with
stainless steel wire to housing.
Stamped with customer specified
tagging information. 2 lines,
18 characters and spaces per line.)
- j Stainless steel nameplate permanently
attached to housing. Stamped with
customer specified tagging information.

* a, b or d option is required on all flange mounted units.

**Not available with g or h switch options.

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Certificates

	Certificates	C1	C3	C4	C5	C6	C7	B5	B6	B7
1520 Flow Switch	Calibration	◆						◆	◆	◆
	Inspection Report		◆					◆	◆	◆
	Compliance / Conformance			◆						◆
	Dielectric Test				◆			◆		
	Insulation Resistance				◆			◆	◆	
	QA Test Report					◆				

Replacement Parts

Part Number	Description
3130 - 106	SPST Hermetically Sealed Switch Capsule
3130 - 245	SPDT Hermetically Sealed Switch Capsule
3130 - 107	SPST Hermetically Sealed Switch Capsule
3130 - 244	SPDT Hermetically Sealed Switch Capsule
3130 - 118	316SS Vane Assembly
3130 - 403	Actuator Arm Replacement Kit (1-1/2" NPT and flanged process connections)
3130 - 404	Actuator Arm Replacement Kit (2" NPT process connection)

Limited Warranty

Cameron agrees to repair or replace any switch found to be defective in material or workmanship within five years from date of shipment. The limited warranty is valid only if the switch was installed in accordance with published factory installation instructions, operated within the design limitations stated on the nameplate, and returned to the factory for inspection, freight prepaid, within the warranty period. Contact the factory for return authorization. No claim for labor or consequential damages will be allowed.