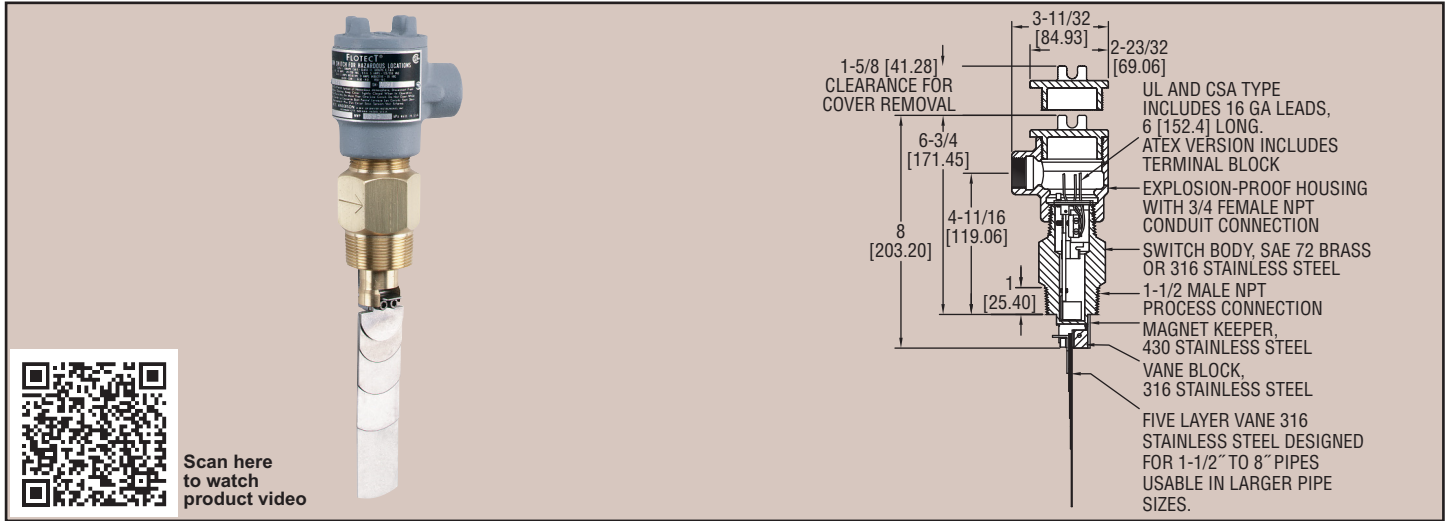




Series
V4

FLOTECT® Vane Operated Flow Switch

Field Adjustable — Dependable Protection Against Flow Variation or Stopping in Pipelines for Fluids, Gases and Flowing Solids



Scan here to watch product video

Rugged and reliable the Series V4 FloTECT® flow switch operates automatically to protect equipment and pipeline systems against damage from reduction or loss of flow. The V4 is time tested being installed in thousands of pipelines and processing plants around the world. A unique magnetically actuated switching design gives superior performance. There are no bellows, springs, or seals to fail. Instead, a free-swinging vane attracts a magnet within the solid metal switch body, actuating a snap switch by means of a simple lever arm.

FEATURES

- Leak proof body machined from bar stock
- Choice of custom vane calibrated for your application, Model V4, or field adjustable multilayer vane, Model V4-2-U (see set point chart)
- Weatherproof, designed to meet NEMA 4
- Explosion-proof (listing included in specifications)
- Installs directly and easily into pipeline with a thredolet, tee, or flange (see application drawings)
- Can be used in pipes 1-1/2" and up
- Electrical assembly can be easily replaced without removing the unit from installation so that the process does not have to be shut down
- High pressure rating of 1000 psig (69 bar) with the brass body and 2000 psig (138 bar) with the 316 SS body

APPLICATIONS

- Protects pumps, motors and other equipment against low or no flow
- Controls sequential operation of pumps
- Automatically starts auxiliary pumps and engines
- Stops liquid cooled engines, machines and processing when coolant flow is interrupted
- Shuts down burner when air flow through heating coil fails
- Controls dampers according to flow

Model	Description	Price
V4-2-U	Brass body, universal vane	\$269.25
V4-SS-2-U	316SS* body, universal vane	388.25
V4-2-U-NH**	Brass body, universal vane, no housing	229.25
V4	Brass body, custom vane	313.00
V4-SS	316SS* body, custom vane	432.00
V4-NH**	Brass body, custom vane, no housing	273.00

Consult factory for price and availability of fittings for V4 installation. Thredolets, bushings, and tees are available in a variety of sizes and materials.

For custom vane models, please supply factory with following information: pipe size, flow direction (horizontal, up), mounting, pressure, temperature, specific gravity, flow rates (maximum normal, actuation/deactuation†), etc.

*316SS body with 430SS magnet keeper.

**No Housing Option (-NH) has no approvals.

†When both values are supplied, note which is critical.

SPECIFICATIONS

Service: Gases or liquids compatible with wetted materials.

Wetted Materials:

- Vane: 316 SS;
- Body: Brass or 316 SS standard;
- Magnet Keeper: 430 SS standard, 316 SS optional;
- Options: Other materials also available, consult factory (e.g. PVC, Hastelloy, Nickel, Monel, Titanium).

Temperature Limit: -4 to 275°F (-20 to 135°C) standard, MT high temperature option 400°F (205°C) [MT option not UL, CSA, ATEX or IECEx] ATEX and IECEx options, ambient temperature -4 to 163°F (-20 to 73°C); Process temperature -4 to 163°F (-20 to 73°C).

Pressure Limit: Brass body 1000 psig (69 bar), 316 SS body 2000 psig (138 bar), optional 5000 psig (345 bar) available with 316 SS body and SPDT switch only.

Enclosure Rating: Weatherproof and Explosion-proof. **Listed with UL and CSA for Class I, Groups C and D;

Class II, Groups E, F, and G. ATEX **CE** 0344 **Ex** II 2 G Ex d IIB T6 Gb -20°C≤Tamb≤73°C.

-20°C≤Process Temp≤73°C.

EC-Type Certificate No.: KEMA 03

ATEX 2383.

ATEX Standards: EN60079-0: 2009; EN60079-1: 2007.

IECEx Certified: For Ex d IIB T6 Gb -20°C≤Tamb≤73°C. -20°C≤Process Temp≤73°C.

IECEx Certificate of Conformity: IECEx DEK 11.0071.

IECEx Standards: IEC 60079-0: 2007; IEC 60079-1: 2007.

Zone I. Also FM approved.

Switch Type: SPDT snap switch standard, DPDT snap switch optional.

Electrical Rating: UL, FM, ATEX and IECEx models 10A @ 125/250 VAC (V~). CSA models: 5A @ 125/250 VAC (V~); 5A res., 3A ind. @ 30 VDC (V---). MV option: 1A @ 125 VAC (V~); 1A res., .5A ind. @ 30 VDC (V---). MT option: 5A @ 125/250 VAC (V~). [MT and MV option not UL, CSA, FM, ATEX or IECEx].

Electrical Connections: UL and CSA models: 16 AWG, 6" (152 mm) long. ATEX and IECEx unit: Terminal block.

Conduit Connection: 3/4" female NPT.

Process Connection: 1-1/2" male NPT.

Mounting Orientation: Within 5° of vertical for proper operation. Units for horizontal installation (vertical pipe with up flow) available.

Set Point Adjustment: For universal vane: five vane combinations.

Weight: 4 lb 8 oz (1.9 kg).

Agency Approvals: ATEX, CE, CSA, FM, IECEx, UL**.

OPTIONS (add as a suffix to the model number):

- D, DPDT contacts add \$30.75
- MV, Gold Plated Contacts, options for dry circuits (see electrical rating in specification, no listings or approvals) add 10.75
- MT, High Temperature, option rated 400°F (204°C) (see electrical rating in specifications, no listings or approvals) add 32.25
- TRI (increasing flow), -TRD (decreasing flow), Time Delay Relay, (no listings or approvals) add 426.00
- 316, 316 SS Magnet Keeper, option to replace standard 430 SS add 45.50
- V, Vertical Up Flow, option for upward flow in vertical pipe add 6.70
- AT, ATEX compliant construction add 68.50
- IEC, IECEx certified construction add 68.50

V4 Universal Vane Flow Charts

Values shown in both charts are nominal. If normal flows exceed actuation rates by less than 10%, custom vanes are recommended. Figures are based on standard vertical installation in a 1-1/2" Threaded Branch Connection in a horizontal run of pipe.

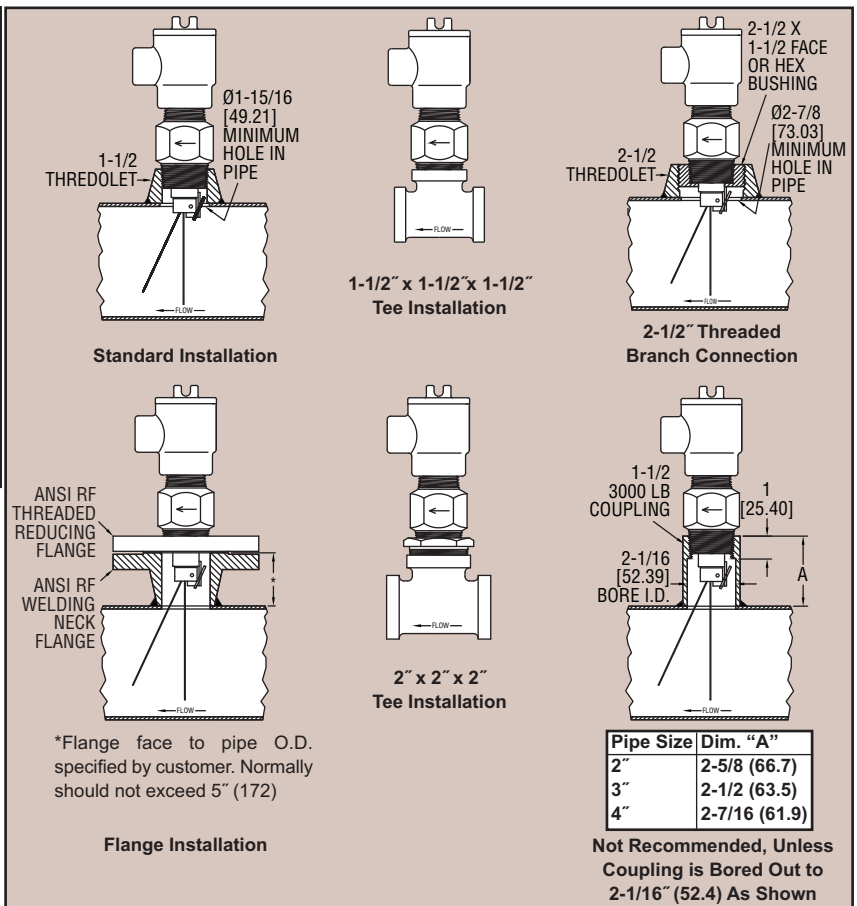
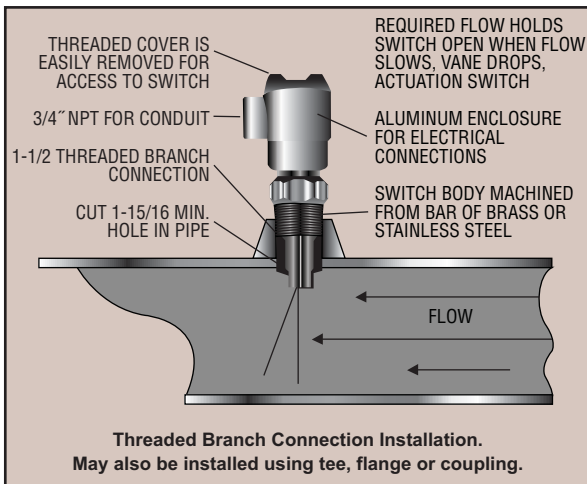
Approximate Actuation/Deactuation Flow Rates for Cold Water.												
Upper Figures in GPM. Lower Figures in LPM.												
Vane Layers	1.5" Pipe	2" Pipe	3" Pipe	4" Pipe	6" Pipe	8" Pipe	10" Pipe	12" Pipe	14" Pipe	16" Pipe	18" Pipe	20" Pipe
1	7-3 26.67-11.67	15-8 56.7-30	45-22 167-83.3	95-40 367-150	210-120 800-450	375-175 1417-667	600-300 2267-1133	900-450 3400-1700	1200-600 4550-2267	1400-800 5300-3033	2000-1000 7567-3783	2400-1200 9083-4550
1&2		7-4 26.7-15	23-14 86.7-53.3	50-35 190-132	130-90 500-333	230-150 867-567	450-250 1700-950	650-350 2467-1317	900-500 3400-1900	1200-650 4550-2467	1450-800 5483-3033	1800-1000 6817-3783
1,2,&3			11-7 41.7-26.7	27-19 102-71.7	80-60 300-233	160-115 600-433	300-180 1133-683	450-275 1700-1033	600-350 2267-1317	750-450 2750-2083	1000-600 3783-2267	1200-700 4550-2650
1,2,3,&4				17-12 65-45	60-45 233-167	120-90 450-333	230-150 867-567	310-200 1167-750	430-280 1633-1067	550-360 2083-1367	700-450 2650-1700	850-550 3217-2083
1,2,3,4,&5					40-30 152-113	80-65 300-250	135-100 517-383	200-140 750-533	290-200 1100-750	360-250 1367-950	460-325 1733-1233	575-400 2183-1517

Actuation rates are based on cold water at a specific gravity of 1.0. For fluids of different specific gravity, actuation rates may be approximated by dividing the rate shown by the square root of the specific gravity.

Approximate Actuation/Deactuation Flow Rates for Cold Air.												
Upper Figures in SCFM. Lower Figures in LPS.												
Vane Layers	1.5" Pipe	2" Pipe	3" Pipe	4" Pipe	6" Pipe	8" Pipe	10" Pipe	12" Pipe	14" Pipe	16" Pipe	18" Pipe	20" Pipe
1	32-17 15-8	65-32 30-20	210-105 100-50	400-200 190-90	950-475 450-220	1550-850 730-400	2400-1300 1100-600	3450-1900 1600-900	4700-2600 2200-1200	6400-3500 3000-1700	8000-4400 3800-2100	10000-5500 4700-2600
1&2		23-13 10-6	120-70 60-30	195-140 90-70	550-375 260-180	1100-700 520-330	1850-1200 870-570	2700-1750 1300-800	3400-2200 1600-1000	4800-3100 2300-1500	6000-3900 2800-1800	7400-4800 3500-2300
1,2,&3			60-48 30-20	135-100 60-50	375-265 180-130	725-500 340-240	1200-850 570-400	1850-1300 870-610	2600-1800 1200-800	3350-2350 1600-1100	4300-3000 2000-1400	5300-3700 2500-1700
1,2,3,&4				65-50 30-20	260-200 120-90	500-400 240-190	875-700 410-330	1250-1000 590-470	1900-1500 900-710	2500-2000 1200-900	3100-2500 1500-1200	3900-3100 1800-1500
1,2,3,4,&5					130-100 60-50	310-250 150-120	650-525 310-250	1000-800 470-380	1600-1250 760-590	2200-1750 1040-830	2800-2250 1300-1100	3550-2850 1700-1300

Actuation rates are based on air at standard conditions. For gases at other pressures, temperatures, or specific gravities, consult factory for equivalent flow approximations.

Application Drawings For Flotect® Automatic Flow Switches

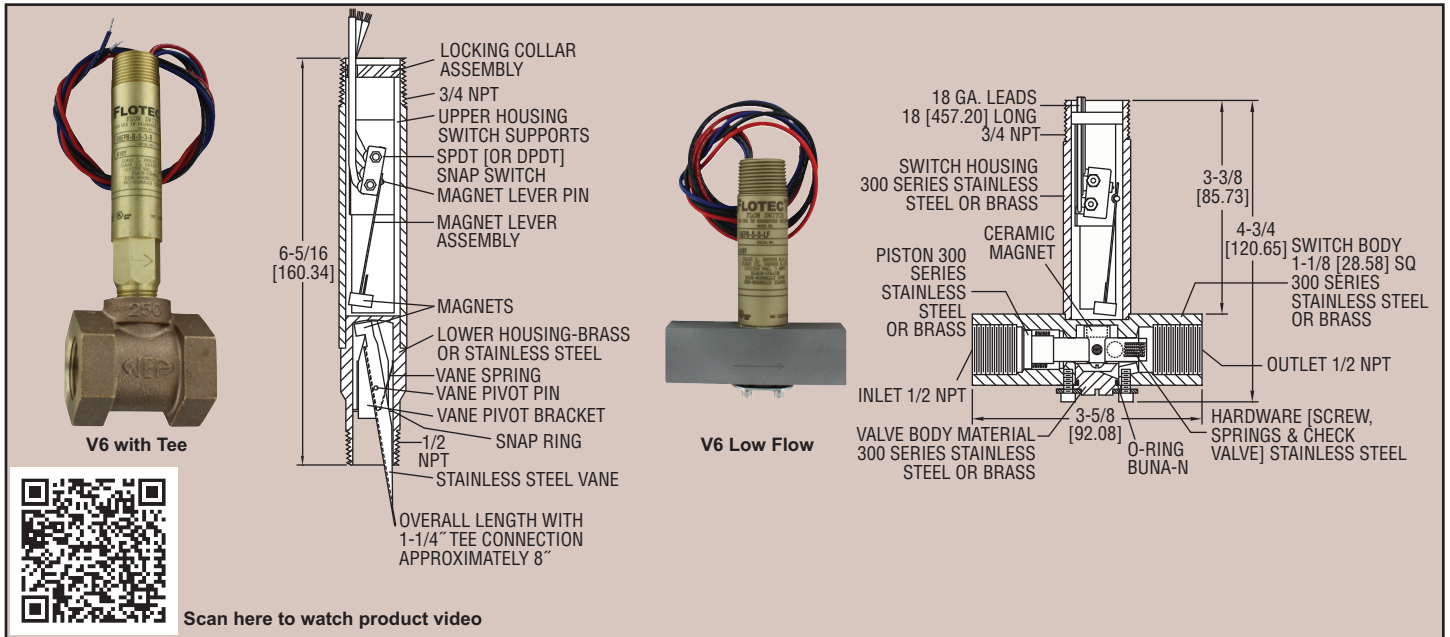




Series V6

FLOTECT® Mini-Size Flow Switches

Monitor flow in 1/2" to 2" pipe, Explosion-proof



Scan here to watch product video

Surprisingly compact, the Series V6 Flotect® Flow Switch is engineered to specifically monitor liquid, gas, or airflows. Operation is simple and dependable with no mechanical linkage as the flow switch is magnetically actuated. The lower body holds the flow vane and one magnet, which controls the switch actuating magnet in the separate upper housing. In most applications the switch is normally off with the pipeline flow forcing the vane against the vane spring. As the flow decreases the vane spring pushes back the vane, actuating the switch to signal an alarm or shutdown. Tees are available for installation in pipelines from 1/2" to 2", with bushings added the unit is easily adapted to 1/4" and 3/8" piping.

FEATURES

- Leak proof lower body machined from bar stock
- Choice of models in a tee with calibrated vane or field adjustable trimmable vane
- Weatherproof
- Explosion-proof (listing included in specifications)
- Electrical assembly can be easily replaced without removing the unit from the installation so that the process does not have to be shut down
- High pressure rating of 1000 psig (69 bar) with brass body and 2000 psig (138 bar) on the 316 SS body (see specifications)
- Low flow model offers field adjustable set point
- Easy installation, simply insert the tee in the pipeline and complete electrical connections

APPLICATIONS

- Protects pumps, motors and other equipment against low or no flow
- Controls sequential operation of pumps
- Automatically starts auxiliary pumps and engines
- Shuts down burner when air flow through heating coil fails
- Controls dampers according to flow

SPECIFICATIONS

Service: Gases or liquids compatible with wetted materials.

Wetted Materials: Standard V6 Models: Vane: 301 SS; Lower Body: brass or 303 SS; Magnet: ceramic; Other: 301, 302 SS; Tee: brass, iron, forged steel, or 304 SS.

V6 Low Flow Models: Lower Body: brass or 303 SS; Tee: brass or 304 SS; Magnet: ceramic; O-ring: Buna-N standard, Fluoroelastomer optional; Other: 301, 302 SS.

Temperature Limits: -4 to 220°F (-20 to 105°C) Standard, MT high temperature option 400°F (205°C) (MT not UL, CSA, ATEX, IECEx or KC) ATEX Compliant AT, IECEx IEC Option and KC (KC Option), Ambient Temperature -4 to 167°F (-20 to 75°C) Process Temperature: -4 to 220°F (-20 to 105°C).

Pressure Limit: Brass lower body with no tee models 1000 psig (69 bar), 303 SS lower body with no tee models 2000 psig (138 bar). Brass tee models 250 psi (17.2 bar), iron tee models 1000 psi (69 bar), forged and stainless steel tee models 2000 psi (138 bar), low flow models 1450 psi (100 bar).

Enclosure Rating: Weatherproof and Explosion-proof. Listed with UL and CSA for Class I, Groups A, B, C and D; Class II, Groups E, F, and G. (Group A on stainless steel body models only).

ATEX **CE** 0344 **Ex** II 2 G Ex d IIC T6 Gb Process Temp≤75°C Alternate Temperature Class T5 Process Temp≤90°C, 115°C (T4) Process Temp ≤105°C consult factory. EC-type Certificate No.: KEMA 04ATEX2128.

ATEX Standards: EN 60079-0: 2009; EN 60079-1: 2007. IECEx Certified: For Ex d IIC T6 Gb Process Temp≤75°C Alternate Temperature Class T5 Process Temp≤90°C, 115°C (T4) Process Temp≤105°C consult factory. IECEx Certificate of Conformity: IECEx DEK 11.0039;

IECEx Standards: IEC 60079-0: 2007; IEC 60079-1: 2007; Korean Certified (KC) for: Ex d IIC T6 Gb Process Temp≤75°C; KTL Certificate Number: 2012-2454-75.

Switch Type: SPDT snap switch standard, DPDT snap switch optional. **Electrical Rating:** UL models: 5A @125/250 VAC. CSA, ATEX and IECEx models: 5A @ 125/250 VAC (V~); 5A res., 3A ind. @ 30 VDC (V-). MV option: .1A @ 125 VAC (V~). MT option: 5A @125/250 VAC (V~). [MT option not UL, CSA, ATEX or IECEx]. **Electrical Connections:** UL models: 18 AWG, 18" (460 mm) long. ATEX/CSA /IECEx models: terminal block.

Upper Body: Brass or 303 stainless steel. **Conduit Connections:** 3/4" male NPT standard, 3/4" female NPT on junction box models. **Process Connection:** 1/2" male NPT on models without a tee.

Mounting Orientation: Switch can be installed in any position but the actuation/deactuation flow rates in the charts are based on horizontal pipe runs and are nominal values. **Set Point Adjustment:** Standard V6 models none. Without tee models vane is trimmable. Low flow models are field adjustable in the range shown. See set point charts.

Weight: 2 to 6 lb (.9 to 2.7 kg) depending on construction. **Options not Shown:** Custom calibration, bushings, PVC tee, reinforced vane, DPDT relays.

Agency Approvals: ATEX, CE, CSA, IECEx, KTL, UL. **Set Point Charts:** See page 181 (Series V6)

FLOW

Flow Switches, Paddle

Example	V6	EP	B-B	S	2	B	MT	V6EPB-B-S-2-B-MT flow switch; brass body, brass tee with 3/4" NPT connections, SPDT snap switch, and high temperature option
Series	V6							Series V6 flow switch
Construction		EP						Explosion proof
Body			B-B S-S					Brass SS - add \$42.00
Circuit (Switch)				S D				SPDT DPDT - add \$32.00
Tee Connection Size					1 2 3 4 5 6 LF			1/2" NPT 3/4" NPT 1" NPT 1-1/4" NPT 1-1/2" NPT 2" NPT Low Flow Model (1/2" NPT connections)
Tee Material					MI FS B S 0			Iron Forged Steel Brass SS No tee, field trimmable vane** (For LF Model no tee material chosen, tee material matches body choice)
Options						CSA AT IEC MV MT VIT		CSA approved construction with junction box* - add \$52.00 ATEX compliant construction with junction box - add \$84.00 IECEX certified construction with junction box - add \$84.00 Gold contacts on snap switch for dry circuits (see specifications for ratings) - add \$10.75 High temperature option rated 400°F (205°C) (see specifications for ratings)* - add \$32.25 Fluoroelastomer O-rings in place of Buna-N on low flow models - add \$3.40

*Options that do not have ATEX.

**Vane will be trimmed to the connection size. If full field trimmable vane is desired, must select with tee connection size 6.

V6 Set Point Charts - Factory Installed Tee

Approximate Actuation-Deactuation Flow Rates for Air. Upper figures are SCFM, Lower figures in LPM		
Pipe Size	Actuate	Deactuate
1/2"	6.50 180	5.00 120
3/4"	10.0 300	8.00 240
1"	14.0 420	12.0 360
1-1/4"	21.0 600	18.0 540
1-1/2"	33.0 960	30.0 840
2"	43.0 1200	36.0 1020

Approximate Actuation-Deactuation Flow Rates for Cold Water. Upper figures are GPM, Lower figures in LPM		
Pipe Size	Actuate	Deactuate
1/2"	1.50 5.667	1.00 3.83
3/4"	2.00 7.5	1.25 4.67
1"	3.00 11.33	1.75 6.67
1-1/4"	4.00 15.17	3.00 11.3
1-1/2"	6.00 22.67	5.00 18.9
2"	10.00 37.83	8.50 32.2

Model	Size	Body	Tee	Price
V6EPB-B-S-1-B	1/2"	Brass	Brass	\$135.00
V6EPB-B-S-2-B	3/4"	Brass	Brass	140.90
V6EPB-B-S-3-B	1"	Brass	Brass	163.00
V6EPB-B-S-4-B	1-1/4"	Brass	Brass	184.00
V6EPB-B-S-5-B	1-1/2"	Brass	Brass	217.00
V6EPB-B-S-6-B	2"	Brass	Brass	275.00
V6EPB-B-S-1-MI	1/2"	Brass	Iron	135.00
V6EPB-B-S-2-MI	3/4"	Brass	Iron	140.90
V6EPB-B-S-3-MI	1"	Brass	Iron	163.00
V6EPB-B-S-4-MI	1-1/4"	Brass	Iron	184.00
V6EPB-B-S-5-MI	1-1/2"	Brass	Iron	217.00
V6EPB-B-S-6-MI	2"	Brass	Iron	275.00
V6EPS-S-S-1-FS	1/2"	SS	FS	182.90
V6EPS-S-S-2-FS	3/4"	SS	FS	205.00
V6EPS-S-S-3-FS	1"	SS	FS	221.50
V6EPS-S-S-4-FS	1-1/4"	SS	FS	258.50
V6EPS-S-S-5-FS	1-1/2"	SS	FS	309.00
V6EPS-S-S-6-FS	2"	SS	FS	380.00
V6EPS-S-S-1-S	1/2"	SS	SS	188.00
V6EPS-S-S-2-S	3/4"	SS	SS	227.50
V6EPS-S-S-3-S	1"	SS	SS	259.50
V6EPS-S-S-4-S	1-1/4"	SS	SS	346.00
V6EPS-S-S-5-S	1-1/2"	SS	SS	395.00
V6EPS-S-S-6-S	2"	SS	SS	443.00
V6EPB-B-S-6-0	No Tee	Brass	None	128.40
V6EPS-S-S-6-0	No Tee	SS	None	170.40
V6EPB-B-S-LF	1/2"	Brass	LF, Brass	184.00
V6EPS-S-S-LF	1/2"	SS	LF, SS	227.50

V6 Low Flow Set Point Chart

Min-Max Flow Rates in 1/2" Pipe		
Media	Actuate	Deactuate
GPM-Water	.04-0.75	.03-0.60
LPM-Water	.15-2.84	.11-2.27
SCFM-Air	.18-2.70	.15-2.0
LPS-Air	.09-1.3	.07-.95

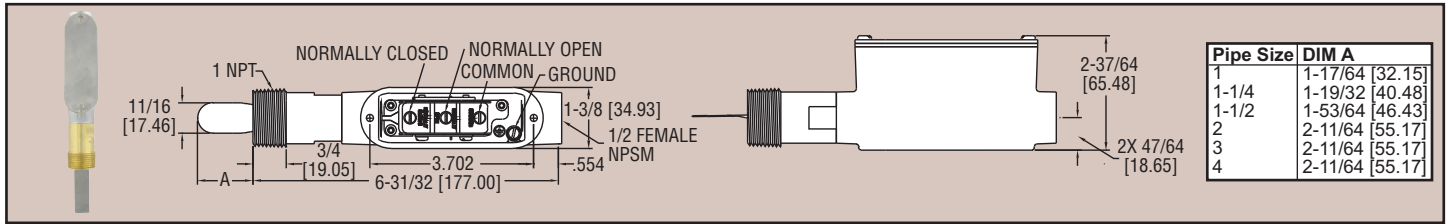
Pressure drop (head loss) is a function of both set point and flow rate. Typically, pressure drop at actuation flow rate listed will be 5-10 psid (.34-.69 bar). Pressure drops at other flow rates will vary in proportion to the (change in flow).



Series
V7

FLOTECT® Vane Operated Flow Switch

Magnetic Linkage



The Series V7 Flotect® Flow Switch is an inexpensive switch for use with compatible liquids to start or stop electronic operated equipment when flow or no-flow conditions occur. Magnetic operation is simple and dependable with no mechanical linkages or seals to wear or leak. Lower body is machined solid metal bar stock assuring no leak points, no matter how long the unit is in service. Design is standard weatherproof, meeting NEMA 4X (IP66), for application versatility. Robust vane design is rigid and field trimmable for set point adjustment.

Approximate Actuation-Deactuation Flow Rates for Cold Water GPM (LPM)		
Pipe Size	Actuate	Deactuate
1"	7.5 (28.4)	6.8 (25.7)
1-1/4"	8.1 (30.8)	7.6 (28.9)
1-1/2"	11.7 (44.1)	10.9 (41.3)
2"	16.9 (64.0)	15.6 (59.1)
2-1/2"	19.6 (74.2)	18.1 (68.5)
3"	31.6 (120)	29.6 (112)
4"	58.0 (218)	52.0 (197)

Contact the factory for different actuation-deactuation rates.

SPECIFICATIONS

Service: Liquids compatible with wetted materials that are non-coating and non-crystallizing.
Wetted Materials: Vane: 301 SS; Process connection: Brass or 316 SS; Magnet: Ceramic; Other: 301, 302 SS.
Upper Body Material: Die cast aluminum.
Temperature Limits: -40 to 250°F (-40 to 121°C).
Pressure Limits: 250 psi (17.2 bar).
Enclosure Rating: Weatherproof, meets NEMA 4X (IP66).
Switch Type: SPDT snap switch.

Electrical Rating: 10A @ 125, 250, 480 VAC; 1/8 hp @ 125 VAC, 1/4 hp @ 250 VAC.

Electrical Connections: 3 screw type, common, normally open and normally closed.

Conduit Connection: 1/2" NPSM.
Process Connection: 1" male NPT. Contact factory for optional tees.

Pipe Size: 1" to 4".
Mounting Orientation: Horizontal or vertical (actuation flow rates are based on horizontal pipe runs in the vertical position). Will not work in vertical pipe with down flow.

Set Point Adjustment: Vane is trimmable, see set point chart.
Weight: 1 lb 2 oz (500 g).

Agency Approvals: CE, UL.

Model	Body Material	Price
V7-WBS-30N	Brass	\$72.00
V7-WSS-30N	316 SS	87.50

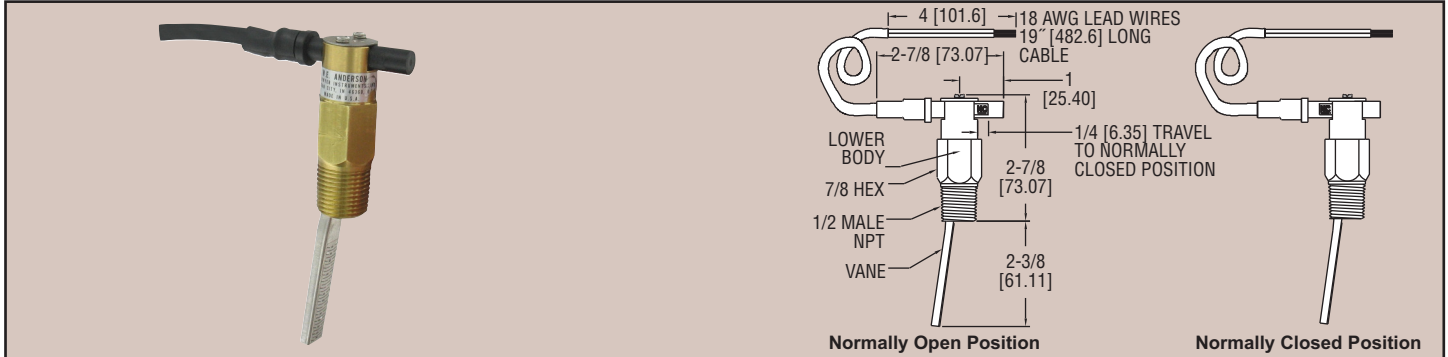
FLOW



Series
V10

FLOTECT® Mini-Size Flow Switch

Proof of Flow or No Flow in 1/2 to 2" Pipe, Low Cost, Leak Proof Body, Weatherproof



Designed to provide an inexpensive, reliable unit to monitor the presence or absence of flow in a system. The V10 flow switch is used to monitor unattended equipment and protect it from costly damage. The V10 flow switch utilizes a rugged, hermetically sealed reed switch which is encapsulated in a polypropylene switch housing that fits into a standard heavy duty leak proof brass body or optional 303 SS body. The switch adjustment allows the user to change the switch to Normally Open (NO) or Normally Closed (NC) in the field merely by loosening two screws. The switch housing is located outside the process media, making switch change-over or maintenance easy without interruption of process flow.

A full size, trimmable SS vane is provided with a removable laminated template. This template is calibrated for brass or ductile iron reducing tees and forged steel straight tee/bushing combinations. Allows for field installation in pipelines from 1/2" to 2" diameter. A table with approximate actuation and deactivation values is provided below.

Cold Water Flow Rates				Air Flow Rates			
Pipe	Trim	N.O.	N.C.	Pipe	Trim	N.O.	N.C.
1/2"	L	2.6/2.3	2.6/2.5	1/2"	L	10.3/8.8	10.2/9.2
		9.8/8.7	9.8/9.5			291.7/250	288/260
3/4"	J	3.1/2.7	3.1/2.8	3/4"	J	13/11.6	12.9/11.6
		11.7/10.2	11.7/10.6			368.3/328	365/328
1"	H	4.8/4.5	4.8/4.4	1"	H	19.2/17.6	18.9/17.6
		18.2/17	18.2/16.7			543.3/498	535/498
1-1/4"	E	6.2/5.6	6.1/5.6	1-1/4"	E	24.8/22.2	24.5/22.5
		23.5/21.2	23.1/21.2			701.7/628	693/637
1-1/2"	C	8.2/7.7	8.2/7.7	1-1/2"	C	33.4/31.2	33/30.6
		31/29.1	31/29.1			946.7/883	935/867
2"	Full	9.5/9.1	9.5/9	2"	Full	50.2/48.4	50.2/47.7
		36/34.4	36/34.1			1422/1370	1422/1352

SPECIFICATIONS

Service: Compatible gases or liquids.

Wetted Materials:

Vane: 301 SS;
 Body: Brass or 303 SS;
 Pin and spring: 301 SS, 302 SS and 316 SS;
 Magnet: Ceramic 8.

Temperature Limit: 200°F (93°C).

Pressure Limit: Brass body: 1000 psig (69 bar); 303 SS body: 2000 psig (138 bar).

Enclosure Rating: Weatherproof, meets NEMA 4X (IP66).

Switch Type: SPST hermetically sealed reed switch. Field adjustable for normally open or normally closed.

Electrical Rating: 0.5 A @ 120 VAC; 1.5 A @ 24 VDC res.; 0.001 A @ 200 VDC res.

Electrical Connections: 18 AWG, 19" (483 mm) long, PVC jacket. Rated 221°F (105°C).

Process Connection: 1/2" male NPT standard. Contact factory for other options.

Mounting Orientation: Switch can be installed in any position but the actuation/deactuation flow rates are based on horizontal pipe runs and are nominal values.

Set Point Adjustment: Vane is trimmable.

Weight: 5.5 oz (0.16 kg).
Agency Approvals: CE, CSA, UR.

Switch Enclosure: Nylon.

Model	Body Material	Switch Configuration	Price
V10	Brass	Normally Open or Closed	\$45.00
V10SS	303SS	Normally Open or Closed	71.50

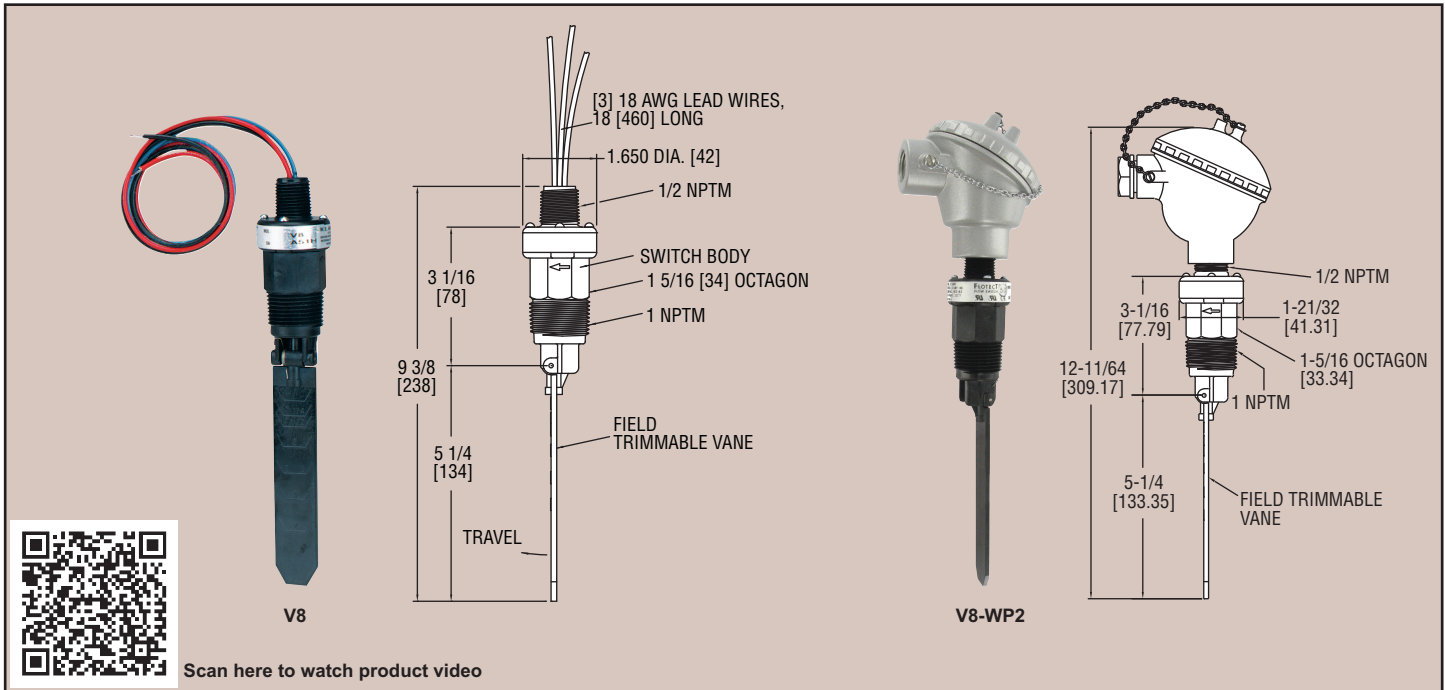
Flow Switches, Paddle



Series
V8

FLOTECT® Vane Operated Flow Switch

Field Adjustable — 1 to 6 Inch Pipe, Leak Proof Body



V8 Flotect® Flow Switch Protects Equipment: Operation is simple and dependable. In most applications, the switch is normally off while there is sufficient flow of liquid or air. When flow stops, the vane spring moves the vane, actuating a single pole double throw switch rated 5A @ 120/250 VAC to start or stop motor, pump, engine, etc. Operate a damper or valve; shut down a burner or actuate an alarm or signal, protecting unattended equipment from damage or loss of production.

The V8 Flotect® Flow Switch has a leak proof body and vane constructed of tough durable polyphenylene sulfide which has excellent chemical resistance. The full size trimmable vane is provided with molded-in graduations allowing for installation in a 1" to 6" pipe. Operating pressures are up to 150 psig (10 bar) and temperatures to 212°F (100°C). The V8 flow switch can be used in various chemical processes, industrial systems and similar applications where process conditions are compatible with polyphenylene sulfide, ceramic 8 and 316SS. The V8 Flotect® flow switch is UL recognized as an industrial motor controller per UL standard 508, suitable for mounting in a protected environment.

SPECIFICATIONS

Service: Compatible gases or liquids.

Wetted Materials:

- Vane and body: Polyphenylene Sulfide (PPS);
- Pin and spring: 316 SS or Inconel®;
- Magnet: Ceramic 8.

Temperature Limit: 212°F (100°C).

Pressure Limit: 150 psig (10.34 bar).

Enclosure Rating: General purpose, WP/WP2 option is weatherproof.

Switch Type: SPDT snap switch, MV option: SPDT gold contact snap switch.

Electrical Rating: 5A @ 125/250 VAC, 5A resistive, 3A inductive @ 30 VDC;

MV option: 1A @ 125 VAC, 1A resistive, 0.5A inductive @ 30 VDC.

Electrical Connections: 18 AWG, 18" (460 mm) long.

Conduit Connection: 1/2" male NPT, 1/2" female NPT on WP and WP2.

Process Connection: 1" male NPT.

Mounting Orientation: Actuation/deactuation flow rates are based on horizontal pipe runs and are nominal values. Unit cannot be used with vertical down flow.

Set Point Adjustment: Vane is trimmable.

Weight: 4.5 oz (0.13 kg).

Agency Approvals: CE, cUR, UR.

Cold Water Flow Rates		Air Flow Rates	
Approximate actuation/deactuation		Approximate actuation/deactuation	
GPM upper, LPM lower		SCFM upper, LPM lower	
Pipe Size		Pipe Size	
1"	10.8/9.1 40.9/34.6	1"	39/32.6 1105/923
1-1/4"	9.8/8.3 37.2/31.4	1-1/4"	37.5/32.2 1062/912
1-1/2"	8.6/6.8 32.4/25.7	1-1/2"	33.4/26.7 945/757
2"	10.9/8.8 41.2/33.4	2"	43/36.8 1218/1042
3"	12.9/8.9 48.8/33.5	3"	52.7/38.9 1493/1100
4"	21.1/13.8 79.7/52.2	4"	87.6/63.6 2482/1802
6"	45/33 170.2/124.7	6"	168.6/137.4 4775/3890

APPLICATIONS

Applications are chemical processing, air conditioning, refrigeration, heating systems, cooling lines, machinery, liquid transfer systems, water treatment, food processing, and machine tools. Also, other applications compatible with the materials of construction.

Series V8, Flow Switch \$57.00

OPTIONS

Gold Plated Contacts, for dry circuits. Rated 1A @ 125 VAC; 1A resistive, 0.5A inductive @ 30 VDC. To order add suffix -MV.

Example: **V8-MV** add \$10.75

Inconel® Alloy Option. Inconel® Alloy replaces standard 316 SS wetted parts. Wetted parts are Inconel® Alloy, ceramic 8, and Polyphenylene Sulfide. To order add suffix -INC.

Example: **V8-INC** add 22.00

Weatherproof Enclosure. Optional housing is phenylpolioxide and provides weatherproof protection for electrical wiring.

To order add suffix -WP. (Not UL approved)

Example: **V8-WP** add 21.25

Weatherproof Enclosure. Optional housing is aluminum and provides weatherproof protection for electrical wiring.

To order add suffix -WP2. (Not UL approved)

Example: **V8-WP2** add 21.25

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