



Flotect® Vane-Operated Flow Switch

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

Model Chart

EXAMPLE	V4	SS-2-D-U	2	1	6	EPOXY	B1HC	Series V4-SS-2-D-U-216-EPOXY-B1HC Flotect® Vane Operated Flow Switch, 316 SS body, DPDT, universal vane, NI 200 magnet keeper and vane block material, 316SS vane, epoxy coated housing, with 2" hex type carbon steel bushing.
SERIES	V4							Flotect® Vane Operated Flow Switch
1ST SET OF OPTIONS (Select any or all)		SS 2 D U						316 SS Body (430 Magnet Keeper) -2 Style Body DPDT Universal Vane
MAGNET KEEPER VANE BLOCK MATERIAL			1 3					430 SST (standard) 316 SST
VANE MATERIAL				1 2 3 4 5				316 SST (standard) C20 SST Hastelloy B Hastelloy C Monel
BODY MATERIAL					1 2 3 4 5 6 7 8			Brass (standard) C20 CPVC Hastelloy B Hastelloy C 316 SST Monel PVC
2ND SET OF OPTIONS						AT BSPT EPOXY FSV HP HV IEC MT MV NACE NH PT ST SLW SW TBC TRD		ATEX Approval 1-1/2" Female BSPT Process Connection, M25 Electrical Epoxy Coated Housing Full Swing Vane High Pressure Hinged Vane IECEX Approval High Temperature Gold Contacts Heat Treated Body No Housing Paper Tag Stainless Steel Tag Solvent Weld Socket Weld Terminal Block Connector Time Delay Relay, Decreasing Flow

					TRIVW	Time Delay Relay, Increasing Flow Vertical Up Flow Weld
FLANGES/BUSHINGS/ TEES/TEES & BUSHINGS						B1FC 2" Flush Type Carbon Steel Bushing
						B1HC 2" Hex Type Carbon Steel Bushing
						B1HB 2" Hex Type Brass Bushing
						B1H4 2" Hex Type 304SS Bushing
						B1HS 2" Hex Type 316SS Bushing
						B2FC 2-1/2" Flush Type Carbon Steel Bushing
						B2F4 2-1/2" Flush Type 304SS Bushing
						B2HC 2-1/2" Hex Type Carbon Steel Bushing
						B2HS 2-1/2" Hex Type 316SS Bushing
						B2HB 2-1/2" Hex Type Brass Bushing
						B4HS 4" Hex Type 316SS Bushing
						F2B1 2" Hastelloy B 150# Flange
						F2C1 2" Carbon Steel 150# Flange
						F2C3 2" Carbon Steel 300# Flange
						F2C6 2" Carbon Steel 600# Flange
						F2C9 2" Carbon Steel 900# Flange
						F2H1 2" Hastelloy C 150# Flange
						F2M1 2" Monel 150# Flange
						F2S1 2" 316SS 150# Flange
						F2S3 2" 316SS 300# Flange
						F2S6 2" 316SS 600# Flange
						F2.5C1 2-1/2" Carbon Steel 150# Flange
						F2.5C3 2-1/2" Carbon Steel 300# Flange
						F2.5S1 2-1/2" 316SS 150# Flange
						F3C1 3" Carbon Steel 150# Flange
						F3C3 3" Carbon Steel 300# Flange
						F3C9 3" Carbon Steel 900# Flange
						F3S1 3" 316SS 150# Flange
						F3S3 3" 316SS 300# Flange
						F4C1 4" Carbon Steel 150# Flange
						F4C3 4" Carbon Steel 300# Flange
						F4S1 4" 316SS 150# Flange
						T1B0 1-1/2" Brass 125# Tee
						T1B2 1-1/2" Brass 250# Tee
						T1S 1-1/2" 316SS 150# Tee
						T1P 1-1/2" PVC Sch 80 Tee
						T1CP 1-1/2" CPVC Sch 80 Tee
						TB2B0 2" Brass 125# Tee & Bushing
						TB2B2 2" Brass 250# Tee & Bushing
						TB2C 2" Carbon Steel 2000# Tee & Bushing
					TB2S 2" 316SS Tee & Bushing	
					TB2P 2" PVC Sch 80 Tee & Bushing	
					TB2CP 2" CPVC Sch 80 Tee & Bushing	
					TB3B0 3" Brass 125# Tee & Bushing	
					BT3P 3" PVC Sch 80 Tee & Bushing	
					TB3CP 3" CPVC Sch 80 Tee & Bushing	

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 Limits	: -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 Limits	: 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

	<p>Certificate No.: KEMA 03 ATEX 2383. ATEX Standards: EN60079-0: 2009; EN60079-1: 2007. IECEX Certified: For Ex d IIB T6 Gb - $20^{\circ}\text{C} \leq T_{\text{amb}} \leq 73^{\circ}\text{C}$. $-20^{\circ}\text{C} \leq \text{Process Temp} \leq 73^{\circ}\text{C}$. IECEX Certificate of Conformity: IECEX DEK 11.0071. IECEX Standards: IEC 60079-0: 2007; IEC 60079-1: 2007. Zone I. Also FM approved.</p>
Switch Type	: SPDT snap switch standard, DPDT snap switch optional.
Electrical Rating	: UL, FM, ATEX and IECEX models 10 A @ 125/250 VAC. CSA models: 5 A @ 125/250 VAC; 5 A res., 3 A ind. @ 30 VDC . MV option: 1 A @125 VAC; 1 A res., .5 A ind. @ 30 VDC. MT option: 5 A @ 125/250 VAC. [MT and MV option not UL, CSA, FM or 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 or 19.05 mm standard or M25 with -BSPT option.
Process Connection	: 1-1/2" male NPT or 1-1/2" male BSPT or 38.10 mm.
Mounting	: Within 5° of vertical for proper operation.

Orientation		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**.

**No housing option (-NH) has no approvals