

Pure-Flo[®] Value Switch Package (VSP and VSP+)

The VSP and now the VSP+ switch package is engineered with cost effectiveness, simplicity and flexibility in mind. The VSP and VSP+ models maintain the same small dimensional envelope that is critical when space is at a premium.

The VSP+ switch options expand on the VSP package capabilities and options. The plus (+) options provide added benefits of self calibrating open/closed positions in combination with high visibility LED illumination.

The VSP and VSP+ switch packages are a perfect complement to all Pure-Flo Advantage[®] actuators.



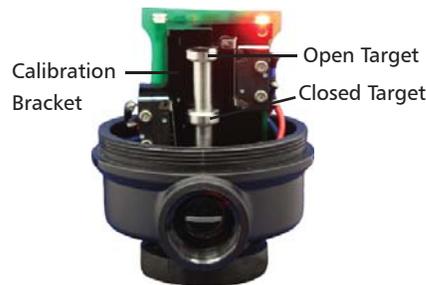
VSP



VSP+

VSP+ Self Calibration System

The VSP+ models feature a robust self calibration system that simplifies the switch setting process. The self calibration system features unique energized Open / Closed targets that adjust to the travel limits of the actuator. Calibration can be completed in seconds without any requirement for tools. Reducing the need for specially trained personnel. Countless maintenance hours can be saved and nuisance alarms eliminated.



VSP+ High Intensity LEDs

The VSP+ option features high intensity LEDs for outstanding 360 degree visual indication. An additional power LED assists in troubleshooting.

Switch Options

Basic VSP

Order Code	Switch Type	Switch Contact/ Output	Amperage	Voltage	Auto Calibration	High Visibility LED
VSPG30	Mechanical	Gold SPDT	100 mA	30VAC/DC	N/A	N/A
VSPS48	Mechanical	Silver SPDT	6A	48VAC/DC	N/A	N/A
VSPS240	Mechanical	Silver SPDT	10A	240VAC/DC	N/A	N/A
VSPN	Proximity	2 Wire Namur	1 mA	24VDC	N/A	N/A
VSPN	Proximity	3 Wire PNP	200 mA	30VDC	N/A	N/A
VSPZ	Proximity	2 Wire "Z"	200 mA	30VDC	N/A	N/A

VSP+

Order Code	Switch Type	Switch Contact/ Output	Amperage	Voltage	Auto Calibration	High Visibility LED
VSP+G	Mechanical	Gold SPDT	100 mA	24VDC	x	x
VSP+S	Mechanical	Silver SPDT	6 mA	24VDC	x	x
VSP+N	Proximity	2 Wire Namur	1 mA	24VDC	x	N/A
VSP+P	Proximity	3 Wire PNP	200 mA	24VDC	x	x

Specifications

Size Range: 0.25–2" (DN8-DN50)

Temperature: 140°F (60°C)

Switch Selection: Mechanical and Proximity (see switch options charts)

Housing Material: Polyamide, FDA compliant

Cover Material: Polysulfone, FDA compliant

Wire Gauge: 12 Gauge max. input

Conduit Port: One M20 conduit port, located radially at any position, 360° (½"-NPT adapter available)

Enclosure Rating:

Nema: Nema 4X

Ingress Protection Rating: IP66

Switch Certifications:

VSPN and VSP+N: CE, cCSAus, FM, ATEX

VSP and VSP+P Sensor: CE, cULus

VSPZ: CE, cULus

VSPS48 and VSP+S, VSPG30 and VSP+G: cULus

Terminal Strip: CE, cULus

Hazardous Ratings for VSPN with Approved Amplifier/Barrier:

Intrinsically Safe - FM, ATEX, cCSAus approved

Group II, category 1D T6

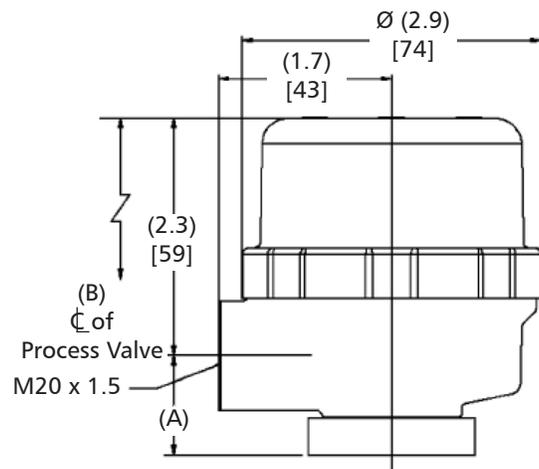
Group II, category 1G/2G T6

Class I, II & III, Division 1, Groups A-G T6

Entity Parameters: Vmax=15V, Imax=50mA, Pmax=120mW, Ci=80nF, Li=110μH

Note: LEDs not available for Namur switch offering on the VSP+
VSP and VSP+ are not autoclavable

Dimensions VSP and VSP+ Models



Valve Size	A		B			
			APA Actuator		Advantage Actuator	
	in	mm	in	mm	in	mm
BT	1.00	25.4	7.51	190.8	7.39	187.7
0.5	1.00	25.4	7.79	197.9	7.83	198.9
0.75	1.00	25.4	8.63	219.2	8.82	224.0
1	1.00	25.4	9.18	233.2	9.28	235.7
1.5	1.50	38.1	13.30	337.8	13.45	341.6
2	1.50	38.1	13.84	351.5	14.07	357.4

Note: Dimensions are with elastomer diaphragm and butt-weld forged bodies.

Engineered Valves

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