

## F26 SERIES CORROSION RESISTANT HEAVY DUTY FLOW SWITCHES

### FEATURES

- POLYPROPYLENE OR STAINLESS CONSTRUCTION
- 15 OR 20 AMP 500V S.P.D.T. SWITCH
- SUITS PIPE SIZES 25mm AND ABOVE
- 18 OR 100 BAR PRESSURE RATING
- WEATHERPROOF IP67 HOUSING
- SEAL LESS MAGNETIC DRIVE
- MANUAL OVERRIDE BUILT IN
- FULLY ADJUSTABLE

*The F26 heavy-duty flow switch is a highly sensitive paddle style switch suitable for a wide range of process control applications in cold to warm liquids. The switch is designed to integrate into modern thermoplastic piping systems, and to compliment the inherent advantages of such systems.*

The F26 flow switch is available in two basic forms, a general purpose polypropylene model designated F26-S, which is suitable for most control circuit applications and for the direct control of low wattage pump motors. The second version, model F26-H is supplied with a 20Amp 500Volt switch suitable for directly controlling heaters, fans or pump motors up to 1.5kW 2HP. Both versions of the switch are available in either Polypropylene thermoplastic or Polypropylene and 316 stainless steel construction. All F26 flow switches are supplied with an extra long paddle designed to be custom cut and shaped to suit the specific installation.

A unique feature of all the F26 flow switches is a built-in manual override switch that allows the flow switch to be turned on, regardless of lack of flow. This feature means pumps can be manually started or primed directly from the flow switch, it also facilitates the testing and commissioning of systems.

Our unique magnetic repulsion system is built into each F26 flow switch and couples the paddle's movement to the high compliance switch through a wall of solid polypropylene or stainless steel. The result is a flow switch with no seals or bellows or other points of potential failure. Where required, the F26 flow switch can be supplied with no metal parts in contact with the process liquid. The F26 flow switch can be used reliably in a huge variety of liquids including sea water, bore water, acids, alkalis and in many chemical solutions.

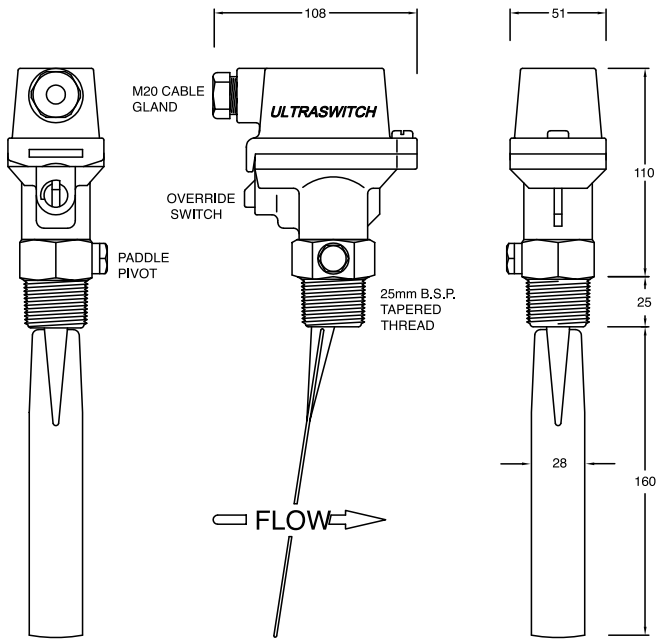


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# TECHNICAL DATA

## DIMENSIONS



## MODELS AVAILABLE

<b>F26-S</b>	Standard polypropylene flow switch with 15Amp 500Volt SPDT switch 18 Bar pressure rated.
<b>F26-SS</b>	316 Stainless & polypropylene model with 15Amp 500Volt SPDT switch 100 Bar pressure rated.
<b>F26-H</b>	Polypropylene heavy-duty model with 20Amp 500Volt SPDT switch 18 Bar pressure rated.
<b>F26-HS</b>	316 Stainless & polypropylene model with 20Amp 500Volt SPDT switch 100 Bar pressure rated.

## OPERATING ENVIRONMENT

MODEL	F26-S, & F26-H (all Polypropylene construction)	F26-SS & F26-HS (316 Stainless & Polypropylene construction)
Maximum operating pressure (static or dynamic) at ambient temperature.	18 Bars (260 PSI)	100 Bars (1450 PSI)
Minimum burst pressure at ambient temperature.	80 Bars (1160 PSI)	400 Bars (5800 PSI)
Maximum operating temperature (Liquid)	80 Degrees C at a pressure 1 bar absolute, see note below	80° C
Minimum operating temperature (Liquid)	-30° C	-30° C
Process liquid Ph range	1 to 14	1 to 14
Ingress protection rating (Weatherproof rating)	IP67 Watertight to 300mm submergence	IP67 Watertight to 300mm submergence

**Note:** temperature for the maximum operating pressure shown in the above operating environment table is 15°C, In the interest of safety, when using the polypropylene version of the F26 series, maximum operating pressure must be de-rated linearly in direct proportion to temperature increase, to a maximum pressure of 1 bar absolute at 80 degrees Centigrade. In other words only use this switch at elevated temperatures in non pressurised systems that are totally open to atmosphere in all circumstances and under all conditions.

## FLOW SENSITIVITY

The accompanying table gives the flow in litres per minute required to actuate the F26 flow switch when installed in Schedule 40 Steel Pipe of various diameters. The flow rates given refer to water as the process liquid. In the case of 25NB and 32NB pipe, the paddles are trimmed to clear the inside wall of the pipe by 3mm. For all other pipe diameters the switch is fitted with a standard width paddle that has been trimmed to the centre line of the pipe. The data is accurate to +/-15% in a non-turbulent flow installation; with 5 diameters of straight pipe either side of the switch.

The accompanying table should be used as a general guide only. Increasing the paddle length will proportionally increase the sensitivity of the switch. That is, it will decrease the flow rate required to actuate the flow switch. Inversely, decreasing the paddle length will reduce the sensitivity of the switch and increase the flow rate required to actuate the switch. Maximum recommended flow rates are determined by setting a safe limit to the flow induced forces acting on the paddle.

Under the conditions described above the maximum flow rates should not exceed 5 times the switching point flow rates given in the table. Proportionally reducing the paddle length can substantially increase the safe maximum flow rate, but at a low flow will also increase the flow rate required to actuate the flow switch.

## ELECTRICAL DATA

The F26-S and the F26-SS models are suitable for general control circuit applications

MODELS F26-S AND F26-SS								
Rated Voltage	NON INDUCTIVE LOADS				INDUCTIVE LOADS			
	Resistive load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	15A	3 A	1.5 A	3 A	15A	5A	2.5A	
250 VAC	15A	2.5A	1.25A	1.5A	15A	3A	1.5A	
500 VAC	10A	1.5A	0.75A	1A	6A	1.5A	0.75A	
8 VDC	15A	3 A	1.5 A	3 A	15A	5A	2.5A	
14 VDC	15A	3 A	1.5 A	3 A	10A	5A	2.5A	
30 VDC	6A	3 A	1.5 A	3 A	5A	5A	2.5A	
125 VDC	0.5A	0.5 A	0.5 A	0.5 A	0.05A	0.05A	0.05A	
250 VDC	0.25A	0.25 A	0.25 A	0.25 A	0.03A	0.03A	0.03A	

The F26-H and the F26-HS models are suitable for the direct control of pump motors up to 1.5kW 2HP.

MODELS F26-H AND F26-HS								
Rated Voltage	NON INDUCTIVE LOADS				INDUCTIVE LOADS			
	Resistive load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	20A		7.5A		20A		12.5A	
250 VAC	20A		7.5A		20A		8.3A	
500 VAC	15 A		4A		10A		2A	
8 VDC	20A		3 A	1.5 A	20A		12.5A	
14 VDC	20A		3 A	1.5 A	15 A		12.5A	
30 VDC	6 A		3 A	1.5 A	5 A		5 A	
125 VDC	0.5 A		0.5 A		0.05 A		0.05 A	
250 VDC	0.25 A		0.25 A		0.03 A		0.03 A	

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