

User Manual

GE-313 Teflon Paddle Flow Switches

1. Brief Introduction:

GE-313 PTFE flow switch adopt synthetic composited teflon material, with a max length 125mm paddle, the user could shorten the paddle length to suit a small pipe with knife or scissors. Because all wetted part the composited teflon, this paddle flow switch could work for all kinds of chemical and corrosive liquid.

2. Pipe Connection

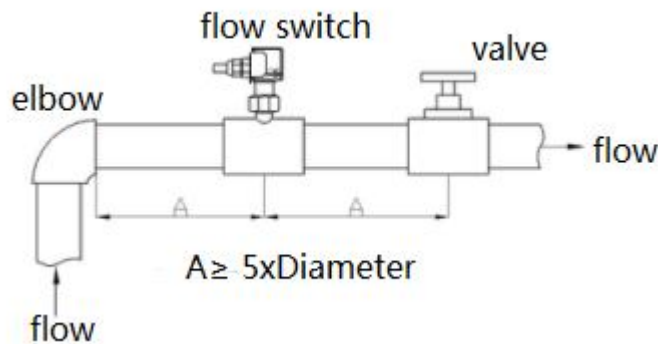
2.1 The **max pressure of pipe could not be more than 10bar**

(for SS304 Locking NUTS) or **3bar** (Plastic Locking NUTS)

2.2 if the water flow is too fast, more than 1.5m/s. **the paddle have to be shortened lest the paddle should be snapped by the fast water flow.** if pipe is less than 32mm, the paddle should approach the middle of the pipe; if pipe size is more than 32mm, the length of paddle should be less than 1/4" pipe diameter.

2.3 This PTFE Teflon Flow Switch should be installed at the top of a horizontal pipe, it could work for vertical pipe too, if the pipe size is less than 50mm.

2.4 The connection is BSP3/4" Female Thread for the flow switch, so the pipe should have a base with 3/4" Male Thread, the height of base could be 15mm-25mm



2.5 The end of the paddle should be far away from the bottom of pipe by more than 2-3mm, to avoid the sludge or sediment impeding the movement of paddle, if install this flow switch in a horizontal pipe

2.6 the Paddle should crosscut vertical with the water flow

3. Wire Connection

3.1 The standard signal of flow switch is Normal Open, if need Normal Close, please declared when ordering it.

3.2 the GE-313 adopt a a single-contact reed switch designed for high breakdown voltage of 600 VDC and high power of AC 70 VA and DC 50 W. The contacts are sealed within the glass tube with inert gas to maintain contact reliability.

The advantage of the GE-313, it don't need any power supply to use this flow switches, it can be used with no voltage, and it close via PLC, the recommended voltage is 5V - 36 DC.

4. Optional Accessory

The GE-313 could add adapter for different thread connection with different material

4.1 PVC 3/4" Male Thread

4.2 SS304 or SS316L 1/2" 3/4" 1" Male Thread

4.3 Brass 1/2" 3/4" 1" Male Thread