

### 1.0 DESCRIPTION 規範

- With alarm switch type, weather proof IP65
- Without alarm switch type

**Service:** Water & Air

**Flow Range:** Water– 6~60LPH, 12~120LPH, 25~200LPH, 40~300LPH;

Water– 0.1~1LPM, 0.2~2LPM, 0.6~5LPM, 0.5~3LPM, 1~10LPM;

Air– 6~30LPM, 10~60LPM, 10~100LPM, 15~150LPM, 30~300LPM

**Material:** Body- Polycarbonate (P.C) or Polysulfone (PSU) available;  
O-ring- Viton; Float- Magnet cover with Polypropylene (P.P) or SS316, and  
if the liquid temperature > 80°C, the float coating should be PVDF;

Connection–SS316, Plastic (PP, PVC, PVDF)

**Connection Size:** 3/8", 1/2", 3/4"NPT female available

**Mounting:** Vertical position

**Pressure Limit:** 300psig (20bar) @100°F (38°C)

**Temperature Limit:**

- PC body tube with SS316 or PVDF connection: -5°C ~ +80°C
- PC body tube with PP or PVC connection: -5°C ~ +54°C
- PSU body tube with SS316 connection: -5°C ~ +120°C
- PSU body tube with PVDF connection: -5°C ~ +120°C

**Accuracy:** ±5% full scale

**Alarm Switch:** One setting point, form A N.O. type bistable switch

**Switch Rating:** AC 125V 0.5A/ DC 100V 10W/ Max. DC 250V<1mA

**Weight:** approach 0.35kg (plastic)

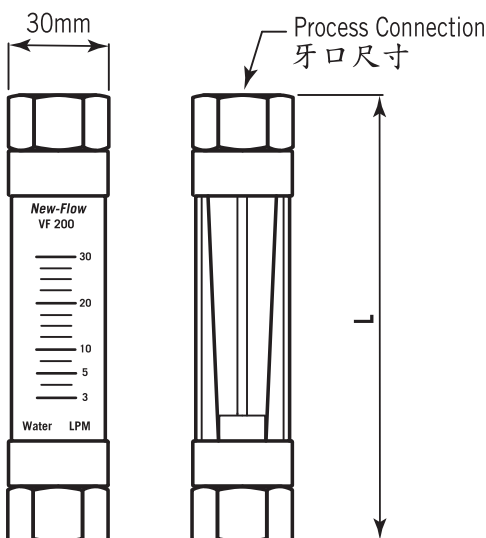
(Contact setting point should be within 10% to 80% of F.S)



**Approvals:**



### 2.0 DIMENSIONS 尺寸



**Process Connection / L Length:**

牙口尺寸/總長:

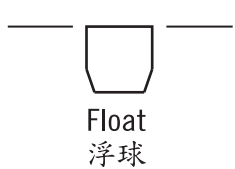
1. 3/8"NPT(F) / L=134mm
2. 1/2"NPT(F) / L=134mm
3. 3/4"NPT(F) / L=162.5mm (Note.1: switch type is unavailable for this size)  
(此尺寸不適用於附開關)

### 3.0 FLOW DIRECTION TYPES 流向



**BT:** Bottom to Top / 下→上

## 4.0 FLOW READING 流量讀值



### Actual Flow Rate

Keep your eyes at the same level of the flowmeter and scales to read the flow rate.

### 正確流量讀值

水平直視浮球頂端並配合流量計之刻度線，其讀值為目前流量。

## 5.0 INSTALLATION 配管方式

1. Before installation, make sure your pressure, temperature, fluid and other requirements (flow direction, pipe size and flow rate range) are compatible with the meter.
2. **CORRECT INSTALLATION (as Fig.A):**
  - **Use Two Wrenches**  
The body process connection must be fixed by one of the wrench at first, and then rotating the other wrench. This is in order to avoid making the plastic body broken-down.
  - **Center Line**  
Align the flowmeter to the inlet and outlet pipe to install the flowmeter.
  - **Use Teflon Tape**  
Use an appropriate amount of Teflon tape on external pipe thread before making the connection.
3. When doing pipe run, make sure no foreign objects, such as teflon tapes, trapped inside the pipes.
4. Because the flowmeter is made of plastic. Do Not put packing around the body tube.
5. After installation, open the valve slowly. If you open the valve too rapidly, it will casuse the liquid to flow too fast suddenly; it will result in unusual pipe vibration. (as Fig.B)

(1) 安裝流量計之前，必須先確認流量計之操作壓力、溫度、流量及流向、管徑、流量範圍等。

(2) 正確的安裝方式 (請參考圖A):

-必須使用兩個扳手

首先使用其中一個扳手固定流量計本體的六角頭，切勿轉動；另一個固定於pipe上的扳手則可旋轉，用於安裝。此為避免流量計之壓克力本體因不銹鋼管加壓而導致毀損。

-中心線

流量計與上下配管之中心線必須一致方可安裝。

-止洩帶

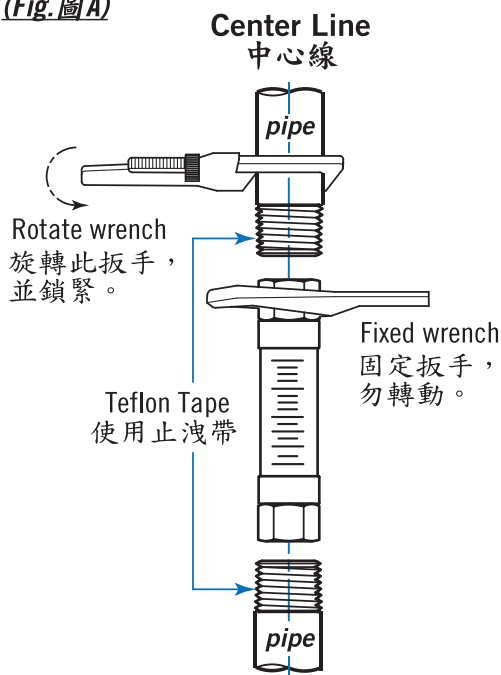
上下配管的螺紋部位請捲上止洩帶。

(3) 配管時，請注意切勿讓止洩帶等異物進入到配管中。

(4) 此流量計為塑膠/壓克力製品，請勿在本體接管部附著墊圈。

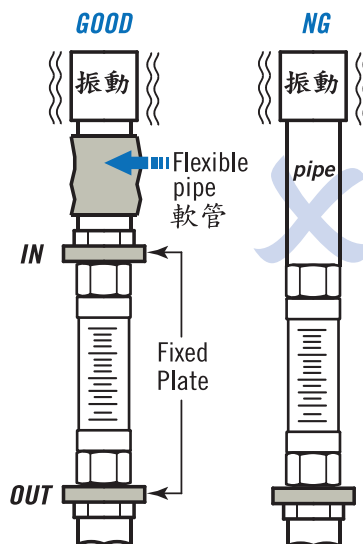
(5) 完成步驟1~4後，請緩緩將球閥打開，慢慢釋放流體。若球閥呈全開狀態，其急速的流體將使配管產生劇烈的振動，且浮球無法正常作動。(請參考圖B)

(Fig.圖A)



(Fig.圖B)

### Installation Advice for Against Vibration 振動管線在設置上需注意事項



#### NOTE.

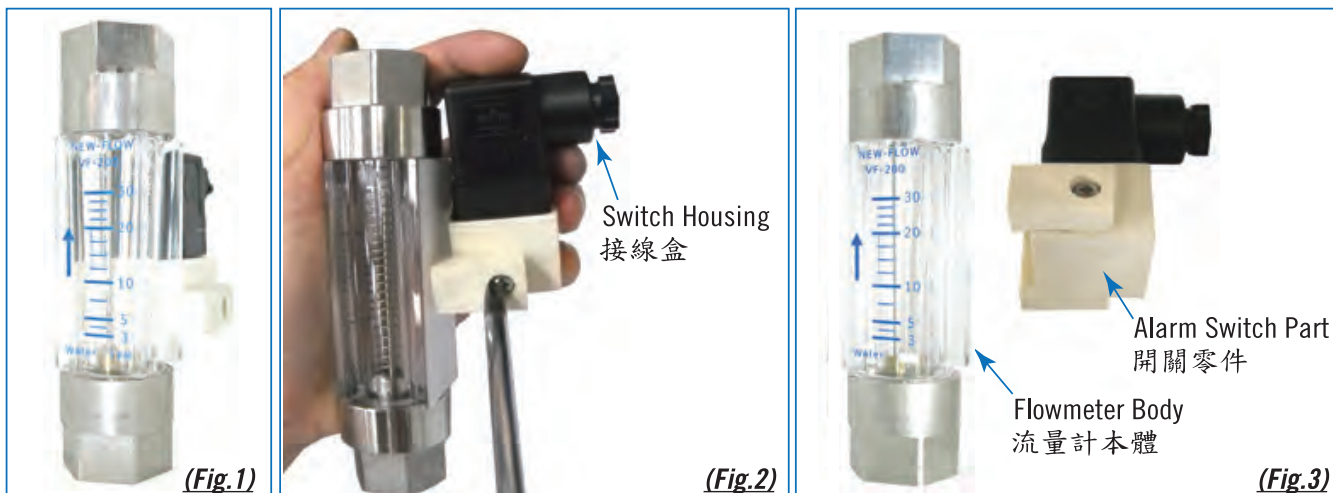
Stabilize both ends of the flowmeter to prevent vibration and stress; because the tapered tube is made of plastic, too much vibration and excess stress can cause the tapered tube to break.

請在流量計的兩端進行固定，以防止振動中的配管所產生的壓力造成塑膠本體破裂。

## 6.0 NOTICE OF INSTALLATION 安裝注意事項

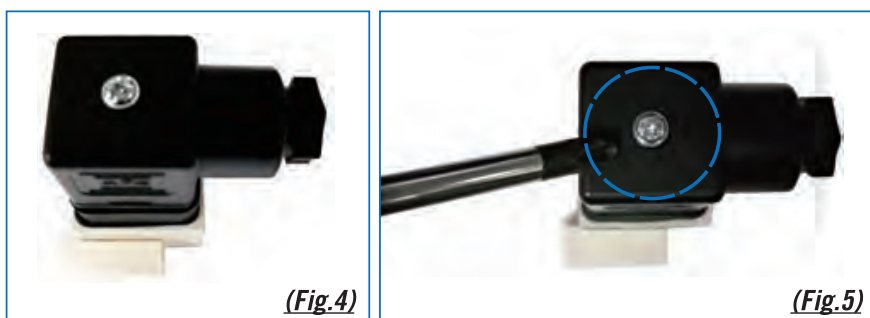
1. Do Not place the flowmeter at unsafe area. It will damage body tube if flowmeter falls.
  2. When doing pipe run, make sure to use two wrenches. Please refer to the Fig.A on page 2.
  3. Securely and carefully uninstall the flowmeter. Pay attention if any liquid from the detected medium remains in the flowmeter.
- (1) 勿將流量計安裝於不穩定的位置。一旦掉落將會造成流量計塑膠管本體破裂。  
(2) 配管時，務必使用兩個扳手，請參考上頁圖A。  
(3) 欲卸除流量計時，請注意是否有任何流體介質殘留於流量計本體中。

## 7.0 WIRING STEPS FOR ONE ALARM SWITCH TYPE 安裝開關步驟

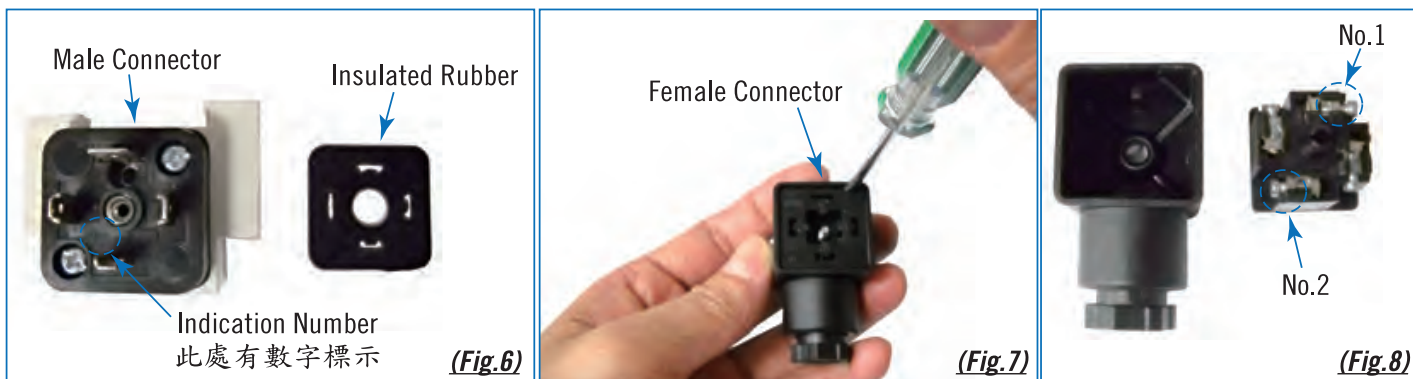


**Fig.1:** The finished product of VF200 configures with alarm switch.  
VF200加上開關之成品圖。

**Fig.2:** Use a cross-head screwdriver to loosen a screw and separate a part of alarm switch from the flowmeter body.(as Fig.3)  
使用十字螺絲起子將開關和流量計本體拆開，如圖3。



**Fig.4/5:** Use a cross-head screwdriver to loosen the screw on the top of switch housing.  
使用十字螺絲起子將接線盒上方螺絲拆開。



**Fig.6:** There is an indication number marked under the male connector.  
接線盒下方有數字標示。

**Fig.7:** Use a mini size of flat-head screwdriver to take apart the top cover of female connector.  
使用小尺寸的一字型螺絲起子將接線盒上半部輕輕拆開。

**Fig.8:** Please find out the position of No.1 and No.2 which are by the side of wiring holes.  
拆開後會發現接線孔旁標示1及2的位置。