

NEW-FLOW

**ISO 9001
REGISTERED**

NEW-FLOW

MANUFACTURE OF METAL TUBE FLOW METER

BF-300E SERIES

金屬管流量計操作說明書

Instruction Manual



Approvals:



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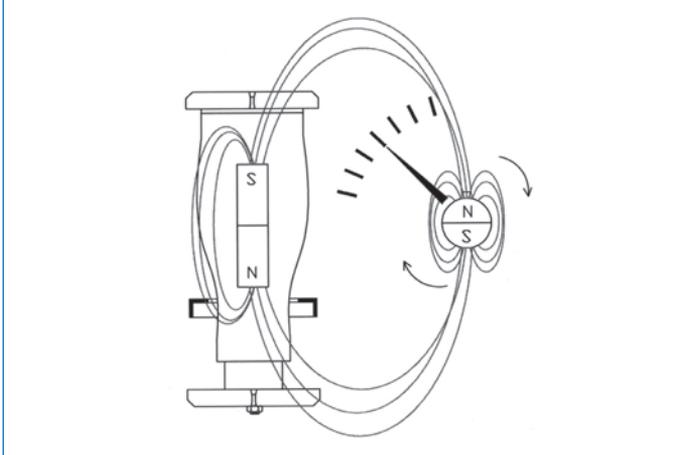
INSTALLATION

Instructions Manual 用法說明

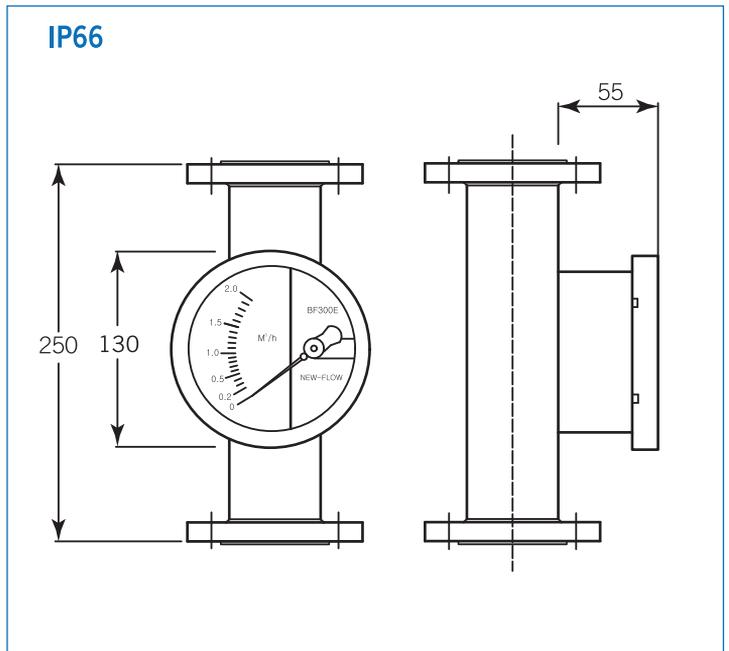
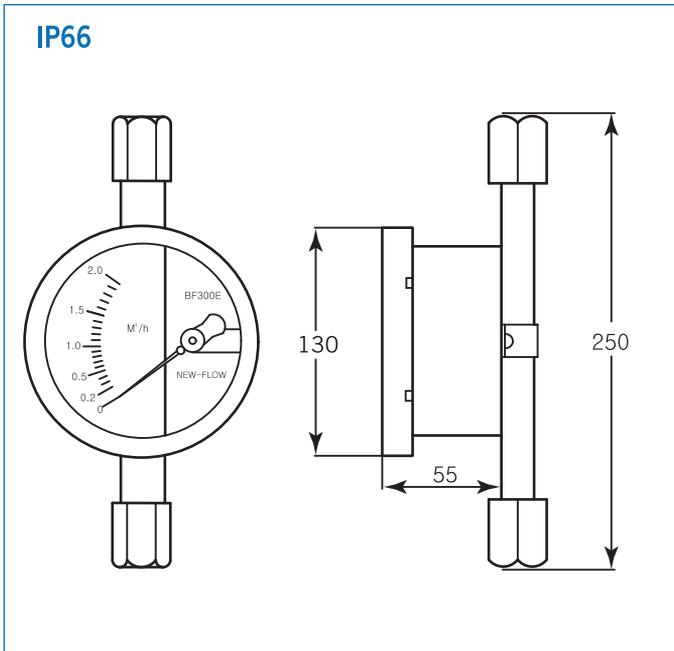
BF300E flow meter consist of fixed orifice, float and indicator. Float and indicator provide one set of magnetic coupling in each side. Fluid turn thought float affects another magnet in mechanical indicator to indicating flow rate on dial scale.

BF300E流量計是由固定板、浮球、指針所組成。浮球和指針在每邊各提供一組耦合的磁鐵機構。當流體通過浮球時會牽動另一個機械式指針裡的磁鐵，同時指針就會在刻度盤上顯示流量。

Principle 原理



Dimensions-mm 尺寸圖



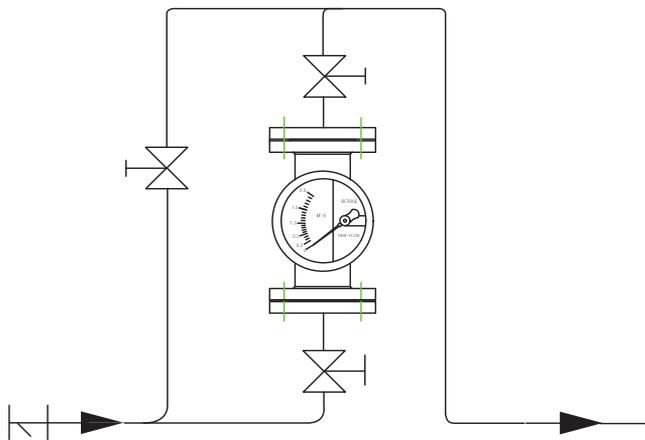
NOTE.

The outer box of BF300E is circular shape and is made of SS316.
The inner components and structure are the same as BF300's.

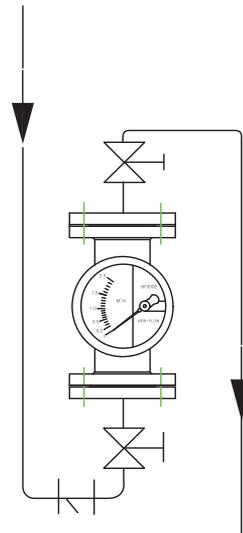
BF300E外殼為不銹鋼、圓型外，其他構造皆與BF300相同。

INSTALLATION

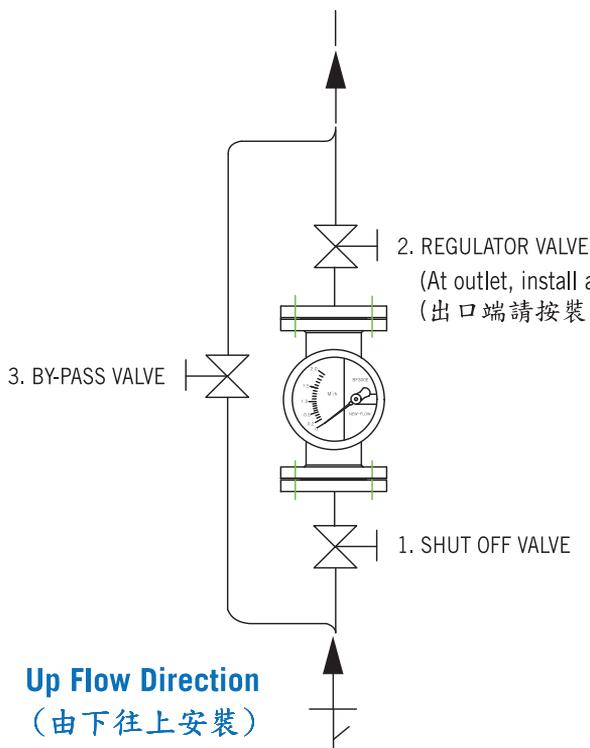
Installation Method 按裝方式



Horizontal Flow Direction (水平安裝)



Falling Flow Direction
(由上往下安裝)



Up Flow Direction
(由下往上安裝)

2. REGULATOR VALVE

(At outlet, install a needle valve or globe valve to control flow volumes.)

(出口端請按裝可調節流量大小的凡而。Needle valve or Globe valve為最佳。)

3. BY-PASS VALVE

1. SHUT OFF VALVE

SPECIAL NOTE.

No minimum length requirement for straight pipes. However, we recommend that the length be 3 times of the connection size. For example, if your flowmeter's connection size is 3", the straight pipes are 9" long.

特別注意:

沒有直管部的限制。但一般都會預留3倍的管徑長度。

How to regulate the flow volumes with valves:

1. For liquid service, fully open valve #1 (shut off valve) and valve #2 (regulator valve). The indicator on the flowmeter shows the current flow rate.
2. For gas service, flowmeters may be susceptible to float bounce. During start-up (with both valves closed) open valve #1 to the maximum, then open valve #2 to the maximum. You will notice the indicator (the float) begin to bounce because the air supply and air exhaust cannot balance out right away. Now adjust valve #2 to gradually reduce outlet flow volumes until the flowmeter's indicator stabilizes. When stabilization happens, that is the correct flow for operation.

出口端凡而調節流量大小的方法如下:

1. 用在液體管線上，直接將#1號與#2號凡而調到最大流量即可。指針指示的刻度就是當時的流量。
2. 使用在氣體管線上，開始使用流量計時請將#1號凡而打開到最大流量後，再將#2號凡而也打開到最大流量，此時流量計的指針會因為空氣來源及出口消耗量，而無法馬上平衡，導致上下震動，所以必需將#2號凡而反方向調整，漸漸縮小出口量，直到流量計指針指示的刻度穩定為止。此時的流量就是正確的使用流量。