# NEW-FIOW 

## MANUFACTURE OF ORIFICE PLATE TYPE FLOWMETER OPF SERIES

AND CONTROL INSTRUMENTS

## Instruction Manual


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### 1.0 INSTALLATION

## ISO Standard 5167 Required

Straight Lengths for Orifice Nozzle ISA Venturi Nozzle and Venturi in Multiples of Pipe Diameter D


TWO ELBOWS IN SAME PLANE

| $\underset{+C+1+T^{B \rightarrow}}{\longrightarrow}$ | A | Orifices Nozzles | 12 | 12 | 12 | 12 | 14 | 20 | 24 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vave Pimary Element <br> Gate valve, fully open |  | Venturis |  | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 5.5 |
|  | A | Orifices Nozzles | 18 | 18 | 20 | 22 | 26 | 32 | 36 |
| GLOBE VALVE, FULLY OPEN |  | Venturis |  |  |  |  |  |  |  |
|  | A | Orifices Nozzles | 16 | 16 | 16 | 18 | 22 | 30 | 38 |
|  |  | Venturis |  | 1.5 | 1.5 | 2.5 | 3.5 | 5.5 | 6.5 |
|  |  |  |  |  |  |  |  |  |  |
| Downstream length for all Pictured disturbances | B | Orifices Nozzles | 4 | 5 | 6 | 6 | 7 | 7 | 8 |
|  |  | Venturis |  | 4d | 4d | 4d | 4d | 4d | 4d |

### 1.0 INSTALLATION

Orifice / Nozzle / Venturi Tube Installed Guide

Liquid
DP-Flow Element
With 3-way manifold.


Steam
DP-Flow Element
With 5-way manifold and condense pots

Dry Gas
DP-Flow Element
With 3-way manifold


Humid Gas DP-Flow Element
With 3-way manifold and drain pot


Steam
DP-Flow Element on top mounting With condense pots

Liquid
DP-Flow Element on
top mounting
With 3-way manifold and vent valves

Gas, dry and humid
DP-Flow Element on top mounting With 3-way manifold

Gaseous Fluid DP-Flow Element on top mounting With 3-way manifold and vent pots


### 2.0 CAUTION NOTICE

## Standard Preservation \& Protection

Please stores up the OPF-Series in the shade and dry place.

## Trouble Shooting Check List

1. If the OPF-Series is unable working, first of all please remove the flow gauge (DPH, DPBG or D/P Transmitter) out of the body of orifice element, and testing for the flow gauge individual.
2. If the flow gauge is normal, please check the orifice element is in good condition and without any damage.

## Assembly Procedures



