

ITEM: FLOW NOZZLE



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1. INTRODUCTION

The Flow Nozzle manufactured by WISE CONTROL INC is a product manufactured in compliance with the specifications of clients. This product should be stored in the proper place. And it should surely comply with requirements such as various kinds of document, report, and instruction manual in order to maintain the optimum status of use during the period that it is used.

2. USE

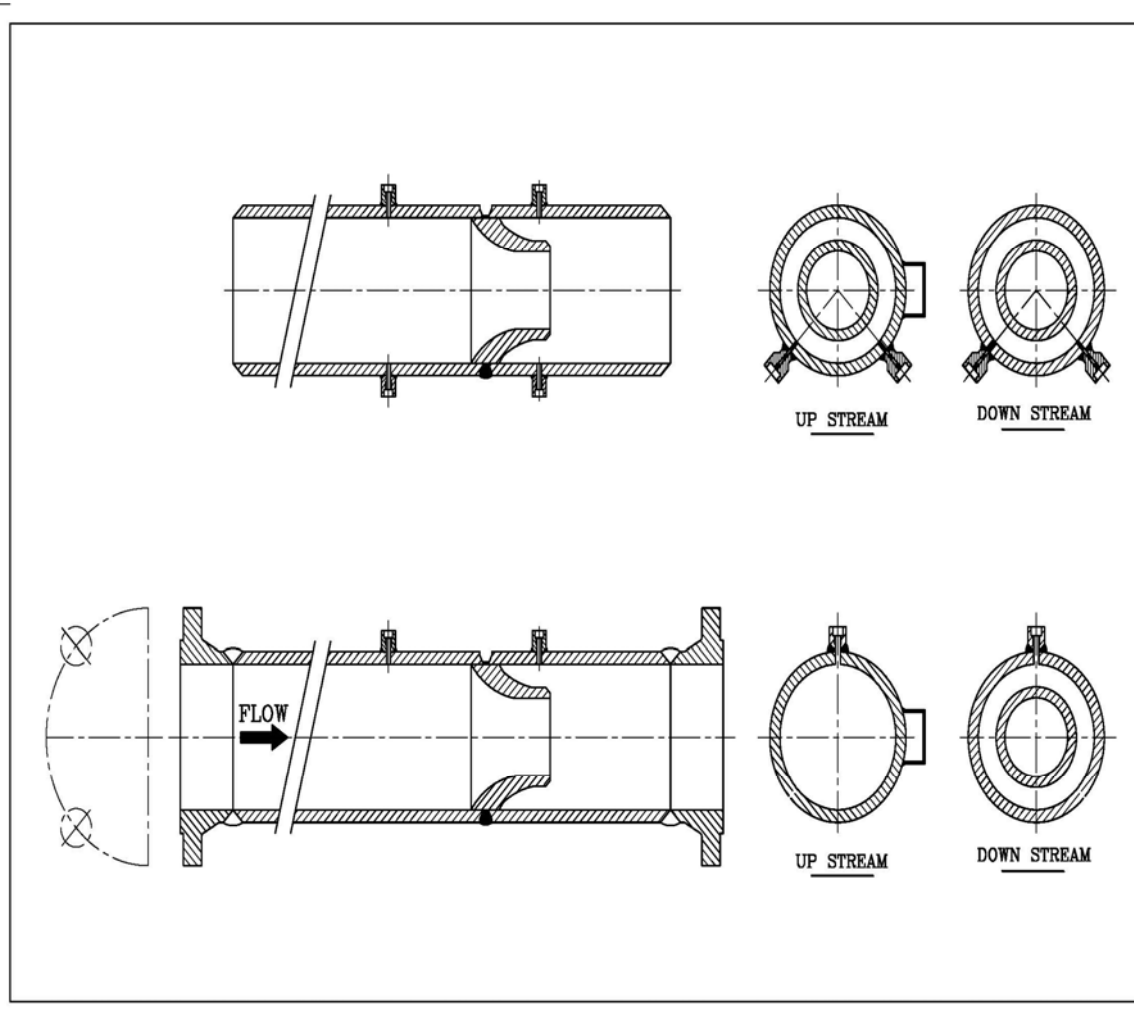
It is a device to be installed in the piping or pipeline through which fluid passes, and to produce differential pressure before and after this.

3. SPEC & SIZE

| Size | End Con'n Type | Design | | Ambiant Temperature | Remarks |
|------------------------|-------------------|----------|-------------|---------------------|----------------------|
| | | Pressure | Temperature | | |
| 8" Sch 40 / STD | Flanged / Weld in | 2.5 Mpa | -20 ~ 300°C | -20 ~ 60°C | Used : Pipe-A336 P91 |
| | | | -20 ~ 500°C | | |
| 8" Sch 80 / XS | Flanged / Weld in | 2.5 Mpa | -20 ~ 300°C | -20 ~ 60°C | Used : Pipe-A336 P91 |
| | | | -20 ~ 500°C | | |
| 8" Sch 160 | Flanged / Weld in | 4 Mpa | -20 ~ 300°C | -20 ~ 60°C | Used : Pipe-A336 P91 |
| | | | -20 ~ 500°C | | |
| 10" Sch 40 / STD | Flanged / Weld in | 1.25 Mpa | -20 ~ 300°C | -20 ~ 60°C | Used : Pipe-A336 P91 |
| | | | -20 ~ 500°C | | |
| 10" Sch 80 | Flanged / Weld in | 1.25 Mpa | -20 ~ 300°C | -20 ~ 60°C | Used : Pipe-A336 P91 |
| | | | -20 ~ 500°C | | |
| 10" Sch 160 | Flanged / Weld in | 2 Mpa | -20 ~ 300°C | -20 ~ 60°C | Used : Pipe-A336 P91 |
| | | | -20 ~ 500°C | | |

4. WARRANTY

In case of arbitrary modification, change, and repair, and damage caused because of not complying with the provisions of instruction manual when the product is used, the manufacturer doesn't take responsibility, and the warranty of product is also terminated.



5. CONFIRMATION NOTES BEFORE THE INSTALLATION

- 1) Check the Tag No of Flow Nozzle and whether it is a product installed at the position.
- 2) There must not be any weld contour, projecting part, and so on. And it should be checked whether there is any dent or scratch on the surface of Flow Nozzle Element before the installation.
- 3) The inside of piping should be smooth and clean. And there must not be any foreign substances.

6. MATTERS THAT REQUIRE ATTENTION IN THE INSTALLATION

CAUTION

- 1) Flow Nozzle Check the direction of Flow careful not to change the location to install.
- 2) Ensure that the inside surfaces of the pipes are smooth and clean and that the edge preparations are in accordance with the welding procedure

CAUTION

- 3) Ensure that the flanges or weld-in nozzle are concentric to the inside of the pipeline and that the pressure tapping points are aligned as per the manufacturer's or the contractor's drawing.
- 4) For a flanged unit, before welding the unit into the line, disassemble the nozzle flange assembly, as the welding process may damage the nozzle and gaskets
- 5) Ensure that all weld outlines are even. Take care to ensure that any protrusion inside the pipe is kept to an absolute minimum.
For a flanged unit, any protrusion inside the pipe must be ground off and swept clean.

CAUTION

- 6) The tapping and any associated impulse piping must be clear prior to putting into service. Check that there is no weld-spatter or any other blockages in the tapping holes and associated impulse piping. If necessary, these can be cleared by rodding out or flushing to remove any blockage. Observe any cleaning specification, for example, oxygen/pharmaceutical service
- 7) For flanged or carrier type nozzles:
 - Inspect the nozzle and or the carrier and the flange faces to ensure that the faces of the nozzle are free from scratches and that the nozzle inlet profile is clean and polished.
 - Check that the gasket surfaces are clean. Replace if necessary.
 - Reinstall the nozzle and gaskets between the flanges. Due to the long nozzle profile the nozzle must be inserted into the downstream pipe section or the carrier, before that section is lowered into position and bolted into the line

7. MAINTENANCE OF THE FLOW NOZZLE

WARNING

Always observe the plant safety regulations. Before beginning work, ensure pipework is depressurized and empty

8. STORAGE METHOD AND RETURN / PACKAGING OF PRODUCT

- 1) The product shall be made not to be exposed to moisture, dust, and other pollutants.
- 2) The product shall be so kept that it is not exposed to shock.
- 3) In case of return for the purpose of repair, the original packaging or safe packaging method shall be used, and the related documents shall be also returned together with it.
- 4) The product shall not to be exposed to moisture, dust, and other pollutants in transit.
- 5) The product shall be so packaged that it is not exposed to shock in transit.
- 6) The product damaged in transit is to be recorded in the document. And all compensat according to the delay of installation can be claimed against the transport company.
- 7) The relative humidity and temperature in storage or transit should be applied under conditi
– Temperature : $20 \pm 10^{\circ}\text{C}$ / Relative Humidity : Max 60%