



EUREKA

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 17025:2017: NABL Certified Company



FLOW NOZZLE ASSEMBLY



**EUREKA
INDUSTRIAL
EQUIPMENTS
PVT. LTD.**

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DESCRIPTION:

Flow nozzle is a DP type flow meter consisting of rounded profile at inlet providing a smooth inlet to the fluid & the particles in the steam there by reducing the wear & tear thus extending the product life. This smooth inlet passage leads to lesser pressure drop & more efficiency.

Eureka's NZL series is typically used for measurement of erosive & high velocity flow, such as high pressure high temperature steam. It can also be used with other fluids such as water, air or other gases.

APPLICATIONS:

- POWER PLANT
- SUGAR INDUSTRY
- PULP & PAPER INDUSTRY
- GAS PROCESSING & TRANSMISSION

FEATURES:

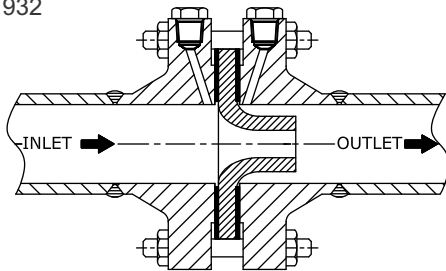
- Best suitable for measurement of high pressure high temperature high velocity steam measurement.
- Smooth profile & rigid structure makes the assembly extremely stable.
- Absolutely leakage free for weld in type assembly.
- Zero maintenance since no moving parts.
- Repeatability: 0.3%
- Less straight lengths requirement.

NOMINAL SIZES AVAILABLE:

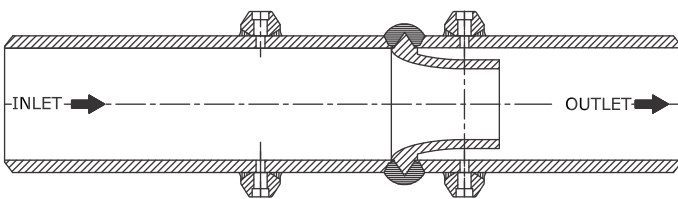
- Diameters 50mm to 630mm, as specified by standards for respective type
(For larger sizes please consult Eureka representative.)

MODELS AVAILABLE:

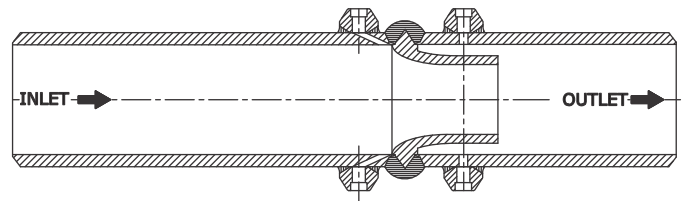
- BASED ON ELEMENT
 - Long Radius High Beta
 - Long Radius Low beta
 - ISA 1932



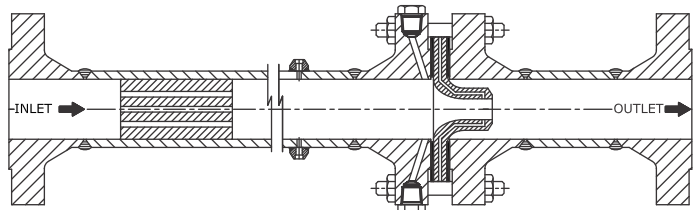
Flow Nozzle Mounted Between Flanges



Long Radius High Beta, Weldin Type



ISA 1932, WELDIN TYPE



Flanged Mounted With Throat Tap As Per PTC-6

● BASED ON MOUNTING

- Weldin type
- Flanged type
- Flanged type with throat tap nozzle (as per PTC-6 standard)

DESIGN & MANUFACTURING STANDARD:

- ISO-5167 part III
- ASME PTC-19.5
- ASME PTC-6 (The results are used as the basis of Turbine acceptance)
- ASME MFC

DIAMETER RATIO:

- 0.25 to 0.8 - for Long Radius High Beta
- 0.20 to 0.5 - for Long Radius Low Beta
- 0.3 to 0.8 - for ISA 1932

PRESSURE TAPPING:

- Radius taps (D-D/2 tapping) – For Long Radius high beta
- Throat taps – For Long Radius Low beta
- Corner taps – For ISA 1932

UNCERTAINTY:

- Long Radius High Beta - 2%
- Long Radius Low Beta - 0.25%*
- ISA 1932 - 0.8% to 1.2%

*when used with PTC-6 standard

MATERIALS:

Selection based on temperature & process conditions.

Available materials are:

- Element : SA.182 F316
- Pipe: SA.106Gr. B / SA335 P11 / SA335 P22 / SA.335P91
- Flange material: SA105 / SA182F11 / SA182F22 / SA182 F91

* Other materials available on request

ORDERING INFORMATION:

| SERIES | MOC OF ELEMENT | LINE SIZE | FLANGE RATING / TYPE | MOC OF PIPE / FLANGE | NOZZLE TYPE |
|--------|-----------------|-----------|----------------------|------------------------------|---|
| NOZZLE | SA 105 - CS | 50 | NA - WELDIN TYPE | A106 GR. B / SA105 - CS | Long Radius High Beta → LRH ISA 1932 → ISA Long Radius Low Beta → LRL |
| | F11 - AS1 | 80 | 300# - WN - RF/RTJ | SA335P11 / SA182F11 - AS1 | |
| | F22 - AS2 | 100 | 600# - WN - RF/RTJ | SA335P22 / SA182F22 - AS2 | |
| | F91 - AS9 | . | 900# - WN - RF/RTJ | SA335P91 / SA182F91 - AS9 | |
| | SA182 F316 - S6 | . | 1500# - WN - RF/RTJ | SA312 TP316 / SA182F316 - S6 | |
| | SA182 F304 - S4 | . | 2500# - WN - RF/RTJ | SA312 TP304 / SA182F304 - S4 | |
| | | | 600 | | |

** - Please specify wall thickness for non standard schedule.

Note 1: Default pipe schedule will be Sch. STD

Note 2: Required testing to be mentioned separately.