



The Venturi Nozzle is an attractive solution for measurements with high accuracy and low residual pressure loss requirements. This Nozzle has the same features as the ISA 1932 Nozzle except the residual pressure loss is lower. The profile of the Venturi Nozzle is axisymmetric. It consists of a convergent section, with a rounded profile, a cylindrical throat and a divergent section. A venturi nozzle can be achieved as truncated alternative. The divergent portion may be truncated up to 35% of its length. At large sizes there is the possibility to go for a sheet metal downstream cone.

The upstream tap location shall be corner taps and the throat pressure taps shall comprise at least four single pressure leading into a annular chamber. Depending on customer requirements, the typical 1/2 in. or 3/4 in. tappings have a but or socket weld, screw thread or flange connection. Tappings maybe equipped with condensate chambers and shut-off valves.

The typical uncertainty of uncalibrated Long Radius Nozzles is +/- 1,5%

When the divergent angle is not greater than 15° the relative value of the pressure loss can be accepted as being generally between 5% and 20%..

Code	Element Type
TR	Truncated
NTR	Non- Truncated

1

Code	Option
0	None
Other	See Table-7

8

Code	Element [Throat] Material
A105	ASTM A105
F304/L	A182 Gr.F304 / F304L
F316/L	A182 Gr.F316 / F316L
F11	A182 Gr.F11
F12	A182 Gr.F12
Mo	Monel
Other	Please Specify

2

Code	Pressure Tap Size
XX	Please Define Eg; 1/2" NPT [F] For Threaded 1/2" 600# WNRF For Flanged 1/2" SW For Welded

7

Code	Divergent Cone Material
Gr.70	A515 Gr.70
F304/L	A240 Gr.F304 / F304L
F316/L	A240 Gr.F316 / F316L
C5	A217 Gr.C5
Gr.11	A387 Gr.11
Other	Please Specify

3

Code	Pressure Tap Type
T	Threaded
F	Flanged
W	Welded

6

Code	End Flange Details
XX	Please Define eg. 750NB 600# Sch80 WNRF

4

Code	Element [Throat] Material
A105	ASTM A105
F304/L	A182 Gr.F304 / F304L
F316/L	A182 Gr.F316 / F316L
F11	A182 Gr.F11
Other	Please Specify

5

ORDERING INFORMATION

VN400 # F-ISAN-NTR-F304L-750NB 600# 1.25" thk WNRF-F304L-1/2" 600#WNRF-Op0

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