

LONG-RADIUS FLOW NOZZLES

Construction:

manufactured in according to ASME PTC 19.5: 4, ASME FLUID METER and ISO R 541.

Types:

- flanged type: manufactured in all dimensions
- welding-in type with holding-ring: for size 4" forward - fig. 4
- welding-in type without holding-ring: for size from 1 1/2" to 3" - fig. 3
- high "beta" type: with β from 0,25 to 0,80 - fig. 1
- low "beta" type: with β from 0,20 to 0,50 - fig. 2

Materials:

- flow nozzle: from forged piece
- holding ring: in the same material of «flow section»
- pins: from bar-stock AISI 316

Dimensions:

flow nozzle: all dimensions
flow section: maximum length: 100".

Checking:

flow nozzle outline curved is inspected with male and female gauge.

Pressure taps:

in the same material of the flow section with execution under to 800°F (fig. 5) or from 801°F to 1100°F (fig. 6).

Flow nozzle, flow section and companion flange:

materials must be specified.

Flow calculations:

when required and extra price, flow calculation can be made for determining throat diameter and nozzle shape.

In this case specify:

- fluid: type and medium condition
- working, barometric and base pressure
- maximum and average flow
- working and base temperature
- installation (vertical or horizontal)
- inside and outside pipe diameter
- specific gravity at base and working conditions
- range and type flow meter: dry type, mercury type etc.
- type of chart and «dip» in inches of water.

For steam specify «water/vapour» ratio.

HOW TO ORDER

Material, type and dimensions of the flow nozzle, flow section material and type of the ends, size and type of the connection, material and type of companion flanges and all the other data specified under Flow Calculation.

