TRI-FLO INC.

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FLOW NOZZLES

Throat Tap | Holding Ring | Flanged | Weld In

CUSTOM CRAFTED FLOW ELEMENTS

FLOW NOZZLES

Tri-Flo Flow Nozzles are calculated, designed and manufactured to ASME recommendations to provide high accuracy flow measurement.

The flow nozzle offers some distinct advantages over the thin plate orifice in that it produces less differential pressure for a given beta ratio resulting in an overall lower permanent pressure loss. Conversely, the flow nozzle will allow maximum flows nearly twice as great as a thin plate orifice with the same differential pressure.

Accuracy is also sustained indefinitely since there are no sharp edges or protrusions to wear.

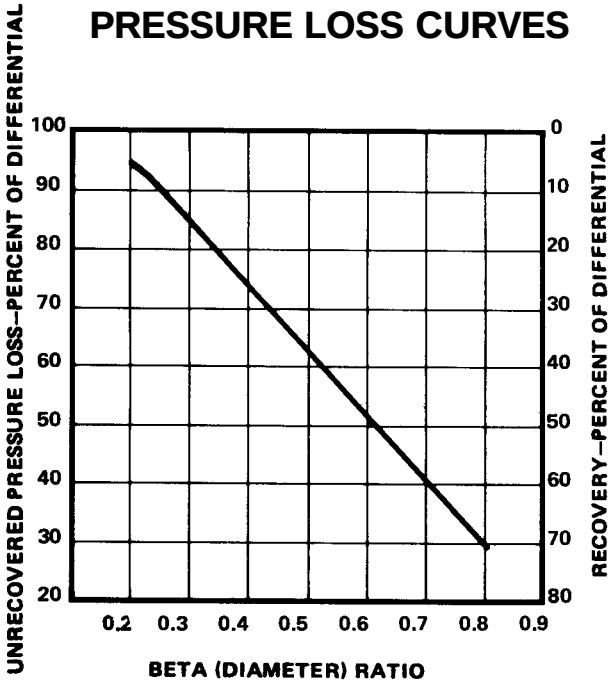
ACCURACY

The completeness of published research data permits Tri-Flo to provide the ASME type nozzle with an accuracy of ± 1% without the need of flow calibration. Flow calibration is available to provide nozzles with ± 0.25% accuracy when necessary.

OPTIMIZED DESIGN

Optimum design is provided on each Tri-Flo Flow Nozzle since it is manufactured for a specific beta ratio or throat diameter necessary to produce the desired differential pressure consistent with minimum pressure loss, piping requirements and accuracy of measurement.

PRESSURE LOSS CURVES



MATERIALS of CONSTRUCTION

Tri-Flo Flow Nozzles are built of various carbon and stainless steels, Inconel, nickel, alloy 20 and other materials to suit specific applications.

ORDERING INFORMATION

After selecting the configuration best suited to your application, please fill in the appropriate model number as well as the following information on the flowing conditions:

For all fluids specify:
Model number_____
Materials of construction:_____
Pipe I.D._____**or**
Line size_____**& Pipe Schedule**_____
Fluid_____
Units of flow_____
Max flow_____**Normal flow**_____
Specific gravity:
Operating_____**Base**_____
Temperature:
Operating_____**Base**_____
Pressure: Operating_____

If liquid specify:
Viscosity @ Operating temperature_____

If gas specify:
Molecular weight_____
Base pressure_____
Gas composition_____**or**
Specific heat ratio_____**and**
Compressibility ratio (Z_f)_____

TRI-FLO NOZZLES ARE:

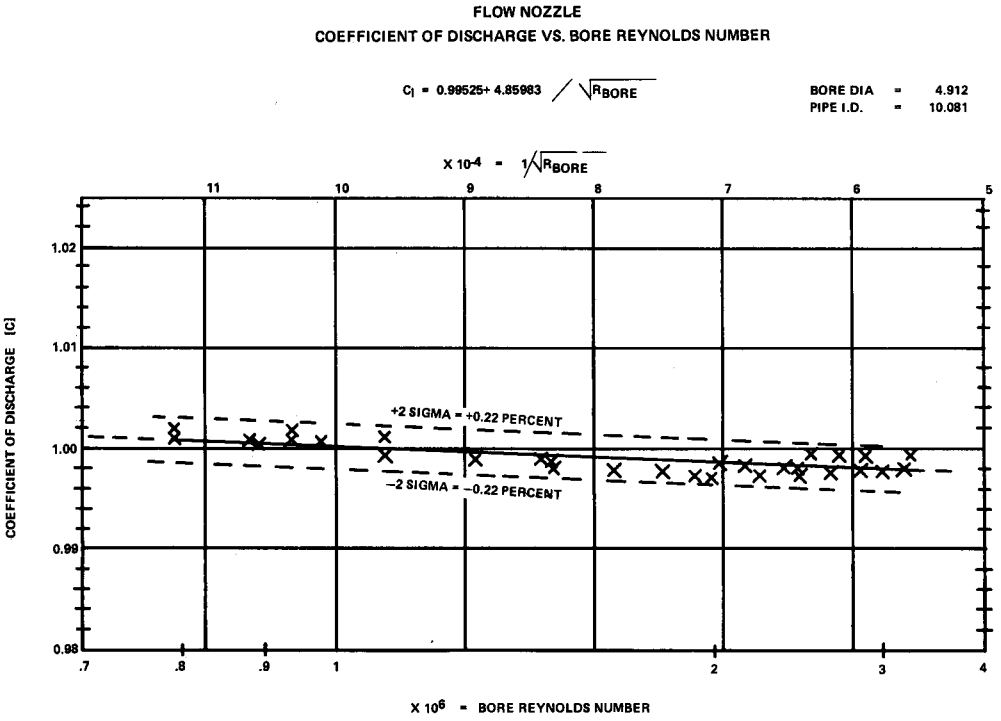
Manufactured to the recommendations of ASME and ISO.

Conform to the ASME long radius configuration, both high and low beta styles

Available in all standard forms – Flange type, weld-in type, holding ring type, throat tap type, as well as special shapes for unusual applications

Normally supplied in carbon steel, 304 stainless steel, 316 stainless steel or chrome-moly steel. PVC, monel, inconel, hastelloy C or B, fiberglass or other materials available for special applications

Special coatings (i.e. tungsten carbide, aluminum oxide, stellite, etc.) and/or special surface finish are available

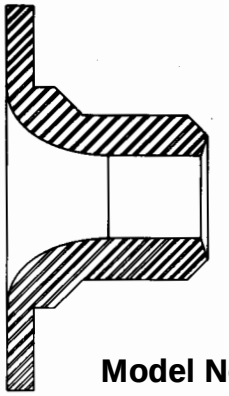


THIS INFORMATION REQUIRED WHEN ORDERING

1. Series number
2. Nominal line size
3. Flange ASA rating (flange type only)
4. Actual line I.D.
5. Nozzle material
6. Holding ring material, when required
7. Quantity
8. Bore size

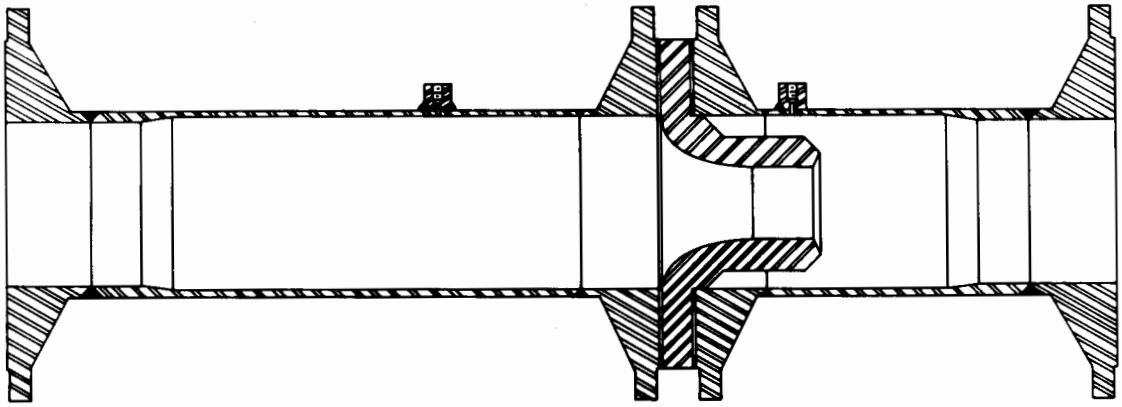
INFORMATION REQUIRED FOR NOZZLE BORE CALCULATION

1. Meter differential
2. Nominal line size
3. Pipe schedule or actual bored I.D.
4. Flowing fluid
5. Flow units
6. Maximum flow
7. Normal flow
8. Pressure at max. flow
9. Temperature at max. flow
10. S.G. (or density) at base conditions
11. S.G. (or density) at flowing conditions
12. Supercompressibility factor at flowing conditions
13. Expansion factor
14. Molecular weight
15. Viscosity

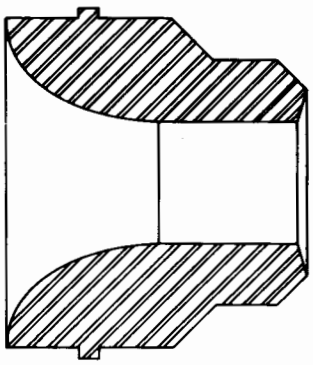


FLANGE TYPE AND TYPICAL METER RUN

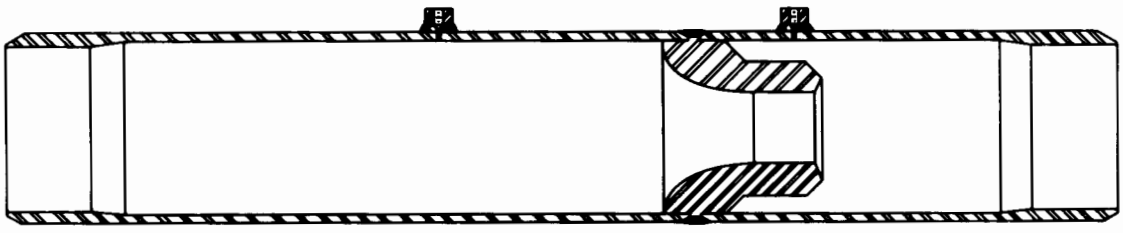
Model No. FT

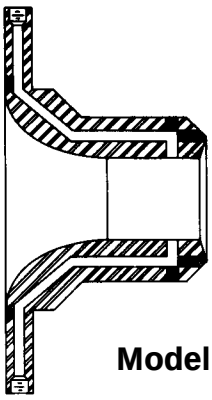


WELD IN TYPE AND TYPICAL METER RUN



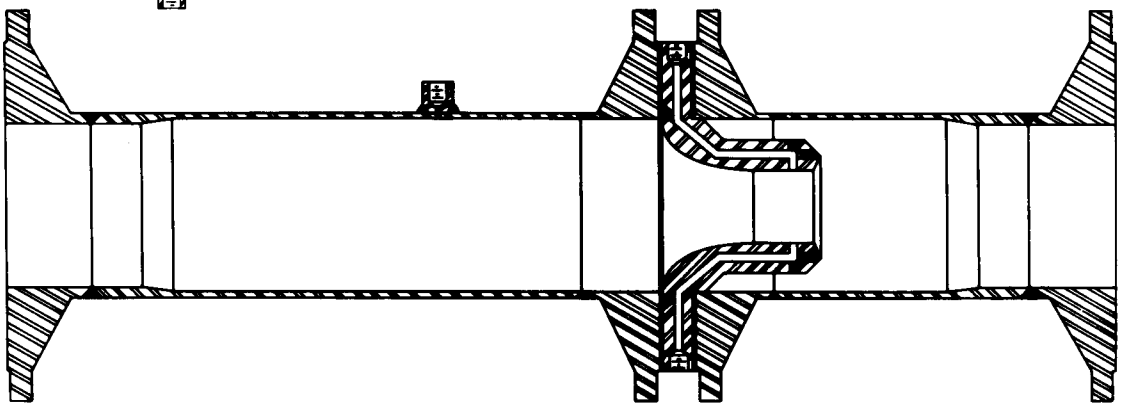
Model No. WI



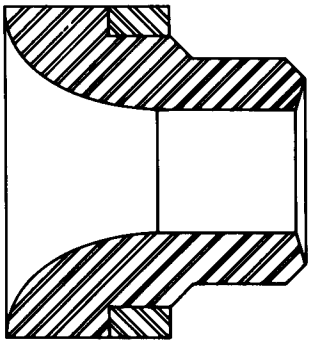


THROAT TAP TYPE AND TYPICAL METER RUN

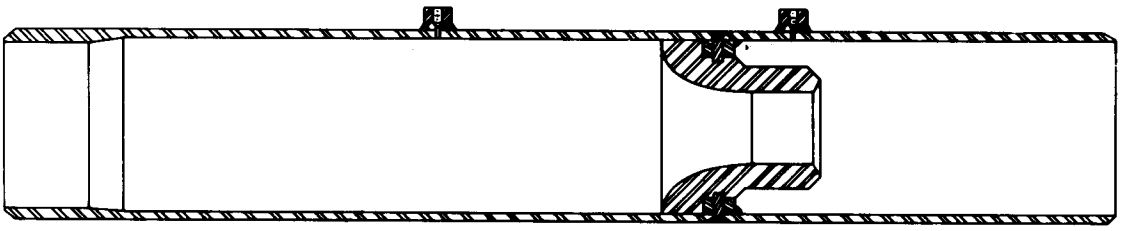
Model No. TT



HOLDING RING TYPE AND TYPICAL METER RUN



Model No. HR



TRI-FLO, INC. ALSO MANUFACTURES:

ORIFICE PLATES **ORIFICE FLANGE UNIONS** **VENTURI TUBES**
METER TUBES **FLOW TUBES**
STRAIGHTENING VANES **CONDENSATE CHAMBERS**
RESTRICTION ORIFICE UNIONS **SPOOL PIECES**
SPECIAL FLOW DEVICES

SEE SPECIFIC BROCHURE FOR INFORMATION

TRI-FLO INC.

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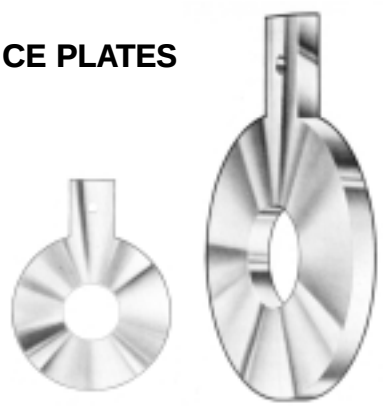
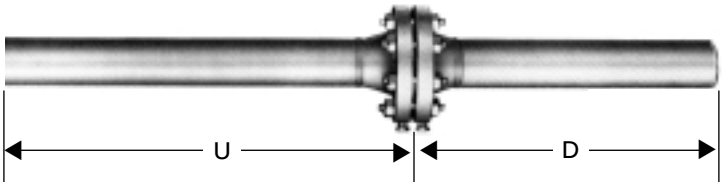
ORIFICE PLATES



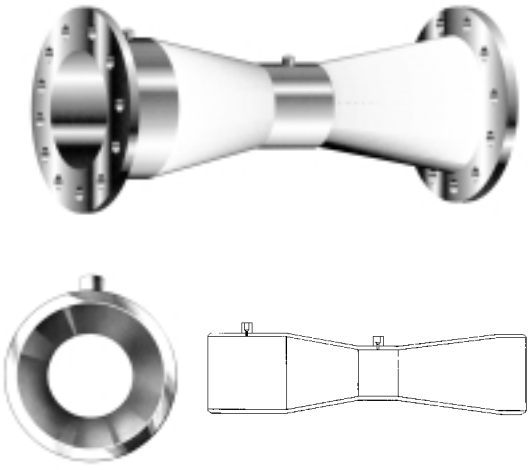
METER RUNS & FITTING FABRICATION AND SMALL HONED METER RUNS



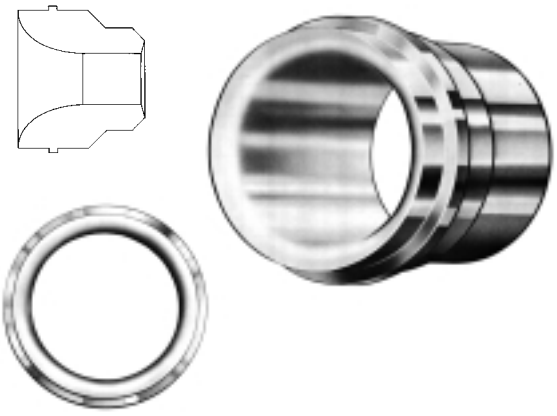
ORIFICE FLANGE UNIONS

DESIGNED AND MANUFACTURED
TO AGA AND ASME AND ISA RECOMMENDATIONS

VENTURI TUBES



FLOW NOZZLES



CUSTOM CRAFTED FLOW ELEMENTS