



USAI BORE SIZING CALCULATION FORM

Company Name:

First Name:

Last Name:

Email:

Phone:

USAI Sales Rep:

DATA REQUIREMENTS FOR ORIFICE BORE CALCULATIONS

Orifice Plate Type:

☐ Paddle Type Plate (Series 520)

☐ Universal Plate (Series 500)

☐ Other:

Flange Rating:

☐ Concentric

☐ Other:

Material:

☐ 304 Stainless

☐ 316 Stainless

☐ Other:

Bore:

☐ Maximum Rate

☐ Nearest 1/8"

Tap Location:

☐ Flange

☐ Corner

☐ Up

☐ Down

☐ Other:

GENERAL

Tag #:		Line #:		Fluid Type:	
Flow PSIG:		Flow Temperature (F)		Actual Orifice I.D.	
Line Flange I.D.		Meter Type:	☐ Mercury ☐ Dry	S.G. of Seat at Ambient T:	
Diff. Range H2O:		Static Range PSIG:		Chart or Scale Range:	
				Chart Multiplier:	

LIQUIDS

Flow Units:	Normal Flow:	Specific Gravity @ 60° F	Specific Gravity @ Flowing Cond.	Viscosity cp @ Flowing Cond.

VAPOR / GAS

Normal Flow:					
Flow Units:	Max. Flow:	Specific Gravity:	Molecular Wt.:	Flowing Density lbs/ft ³ :	Barometric Press. or Elev. of Plant Site (approx.)
Pressure Base:	Temp. Base:	Supercom Factor:	@ Flowing T & P:	Viscosity cp @ T & P	

STEAM

Flow Units:	Max. Flow:	Qual. % or Superheat °F: