

Data sheet for FLOW ELEMENT SNC Lavalin	NO	BY	DATE	SHEET: OF
	0	ml	4/1/2010	SPEC#: REV: JOB #: 334488 Ambatovy P.O. : DATE : CHK: BY : APR:

Tag. No. : 39-FO-0226	Eq./Line No. :
Service : RELIEF VENT	Flowsheet :

Manuf. : MacWeld Machining	Model No. :
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ELEMENT DATA	Element Type : Orifice Plate-1d-6d Thick
	Press. Tap Loc. / Type : None / None
	Element Material : 316 SS
	Beta Ratio(d/D) : 0.536
	Element Bore : 4.466 in
	Thickness : 4.500 in

SIZING CRITERIA	Sizing Mode : Exact Bore
	Reference : General

PIPING DATA	Flange : /
	Pipe Size & SCH : 8 in 10S
	Pipe I.D. : 8.329 in
	Flange Material :
	Pipe Material : Carbon Steel

COEFFICIENTS	Discharge Coeff.(C) : 0.83932000	User Factor (Fuser) : 1.000
	Gas Expan. Coeff.(Y1) : 0.00000000	Murdock Wet Gas Factor (Fx) :
	Reynolds No.(Pipe) :	Velocity of Approach Factor (Ev) : 1.044
	Reynolds No.(Bore) :	Reynolds No.(Pipe - Normal) :

PROCESS DATA	Base	Maximum Flow	Normal Flow	Property Method
Flow Rate	:	60000.000	kg/hr	
Outlet Pressure	:	543.544	kPa	
Pressure Loss	:		kPa	
Static Pressure	:	1118	kPa-g	
Base Pressure	:			
Temperature	:	165.000	DEG C	
Density	:	7.000	kg/m3	User Input
Spec. Gravity	:			
Z-Compressibility Factor	:	0.993		
Viscosity	:	0.182	cP	User Input
k-Factor (Cp/Cv)	:	1.3100		User Input
Fluid Name / Fluid State	:	RELIEF VENT GAS	/ Gas, Critical Flow	
Liquid Density	:			
Gas Quality	:			
Atmospheric Pressure	:	101.300	kPa	

UNCERTAINTY DATA	Uncertainty in Flow Rate : in Discharge Coeff. : ±0.00% in Expansion Factor : in Primary Diameter : ±0.00% in Pipe Diameter : in Density : in Pressure :
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