

Data sheet for <b>FLOW ELEMENT</b> <b>SNC Lavalin</b>	NO	BY	DATE	SHEET: OF
	0	ML	2/10/2010	SPEC#: REV: JOB #: 334488 Ambatovy P.O. : DATE : CHK: BY : APR:

Tag. No. : 64-FO-0726	Eq./Line No. :
Service :	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) : 0.405
	Element Bore : 1.629 in
	Thickness : 1.750 in

SIZING CRITERIA	Sizing Mode : Exact Bore
	Reference : General

PIPING DATA	Flange : 300# / RF
	Pipe Size & SCH : 4 in 40
	Pipe I.D. : 4.026 in
	Flange Material : 316L SST
	Pipe Material : 316L SST

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) : 1.014
	Reynolds No.(Bore) :	Reynolds No.(Pipe - Normal) :

PROCESS DATA	Base	Maximum Flow	Normal Flow	Property Method
Flow Rate	:	2400.000	m3/hr	
Outlet Pressure	:	409.705	kPa	
Pressure Loss	:		kPa	
Static Pressure	:	800	kPa-g	
Base Pressure	:			
Temperature	:	42.000	DEG C	
Density	:	1.164	kg/m3	User Input
Spec. Gravity	:			
Z-Compressibility Factor	:	1.100		
Viscosity	:	0.010	cP	User Input
k-Factor (Cp/Cv)	:	1.3200		User Input
Fluid Name / Fluid State	:	HYDROGEN SULPHIDE VENT	/ Gas, Critical Flow	
Liquid Density	:			
Gas Quality	:			
Atmospheric Pressure	:	101.300	kPa	

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

Notes : CRITICAL FLOW. PLATE NEEDS TO BE 1.75" THICK TO GET THE MAXIMUM AVAILABLE DIFFERENTIAL PRESSURE OF 391 KPA