Taylor Valve Technology, Inc

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Safety Relief Valve Data Sheet

Customer Name:	
Company:	Natural Gas Compression
Location:	
Telephone:	
E-mail:	
Project:	C380
Tag Number:	82H6671311 @200
System Type:	

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Fluid Description	Fluid	Fluid Type	Natural gas	Gas
	Molecular Weight	Specific Gravity	19.500	0.672
	Ratio of Specific Heats	Gas Constant	1.2790	345.000
	Compressibility Factor		1.000	
Sizing Information	Chosen Orifice		82H	
	Superimposed Const. BP	Superimposed Vari. BP	0 psi	0 psi
	Built-up Back Pressure	Total Back Pressure	0 psi	0 psi
	Operating Pressure	Operating Temperature	1 psi	70 ºF
	Relieving Temperature	Atmospheric Pressure	300 ºF	14.7 psia
	Set Pressure	Flowing Pressure	200 psi	234.7 psia
	% Overpressure	Allowable Overpressure	10.00%	20 psi
	Sizing Method		API Standard 520	
Sizing Requirements	Required Area		0.000 in^2	
	Selected Orifice Size		82H	
	Selected Orifice Area		0.913 in^2	
	Maximum Capacity of Valve at Overpressure		3215.569 scfm	
Materials	Valve Body Material		SA 216 WCC	
	Inlet Base Material		SA 36	
	Disc		17-4 SS H900	
	Nozzle		17-4 SS H900	
	Seat Material		VITON	
	O-ring Material		VITON	
	Spring Material		17-7 SS	
Options	Pipe Tap		None	
	Sour Gas Service		No	
	Cap Type		Closed Top	
Valve Part Number and Description	Valve Type		82H Threaded	
	Part Number		82H6671311	
	Inlet Size	Outlet Size	2 in.	2 in.
	Inlet Connection	Outlet Connection	MNPT	FNPT
Notice	ASME code, Section VIII, Division 1, para. UG-125(a), the customer is singularly responsibility to insuring the appropriate Pressure Relief Device is installed for for the application. The customer purchase order and its content constitute affirmation of valve sizing calculations and material compatibility are appropriate to the application.			
	This sizing program may not take all material compatibility, pressure, or temperature limitations into account for choosing materials. Please verify all material choices with Taylor Valve Technology.			