

Taylor Valve Technology, Inc

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Safety Relief Valve Data Sheet

Customer Name:		
Company:	Natural Gas Compression	
Location:		1
Telephone:		1
E-mail:		
Project:	C380	Page:
Tag Number:	82G0651311 @550	
System Type:		Date:

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Date: 11/9/11 16:00

Fluid	Fluid Type	Natural gas	Gas
Molecular Weight	Specific Gravity	19.500	0.672
Ratio of Specific Heats	Gas Constant	1.2790	345.000
Compre	ssibility Factor	1.000	
Chosen Orifice		82G	
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 °F
Relieving Temperature	Atmospheric Pressure	300 °F	14.7 psia
Set Pressure	Flowing Pressure	550 psi	619.7 psia
% Overpressure	Allowable Overpressure	10.00%	55 psi
Sizing Method		API Standard 520	
Requ	uired Area	0.000) in ²
Selected Orifice Size 82G			
Selected Orifice Area		0.472 in ²	
Maximum Capacity of Valve at Overpressure		4121.872 scfm	
Valve Body Material SA 216 WCC		WCC	
Inlet Base Material SA 36		6	
Disc		17-4 SS H900	
Nozzle		17-4 SS H900	
Seat Material		VITON	
O-ring Material		VITON	
Spring Material		17-7 SS	
Pipe Tap		None	
Sour Gas Service		No	
Ca	ар Туре	Closed T	Тор
Val	lve Type	82G Thre	eaded
Part Number		82G10651311	
nlet Size	Outlet Size	2 in.	2 in.
nlet Connection	Outlet Connection	MNPT	FNPT
ASME code, Section VIII, I appropriate Pressure Rel	Outlet Connection Division 1, para. UG-125(a), the collection Device is installed for for the approximate the second sec	MNPT ustomer is singularly respondication. The customer pand material compatibility a	FNPT Insibility to insuring ourchase order an
	Ratio of Specific Heats Compre Chos Superimposed Const. BF Built-up Back Pressure Operating Pressure Relieving Temperature Set Pressure % Overpressure % Overpressure Selecte Selecte Maximum Capacity Valve E Inlet B I Sea O-rir Sprir P Sour G C: Va Par	Ratio of Specific Heats Compressibility Factor Chosen Orifice Superimposed Const. BP Superimposed Vari. BP Built-up Back Pressure Total Back Pressure Operating Pressure Operating Temperature Relieving Temperature Atmospheric Pressure Set Pressure Flowing Pressure % Overpressure Allowable Overpressure Sizing Method Required Area Selected Orifice Size Selected Orifice Area Maximum Capacity of Valve at Overpressure Valve Body Material Inlet Base Material Disc Nozzle Seat Material O-ring Material O-ring Material Spring Material Pipe Tap Sour Gas Service Cap Type Valve Type Part Number Iet Size Outlet Size Installed for for the allowable Overpressure of the pressure of t	Ratio of Specific Heats