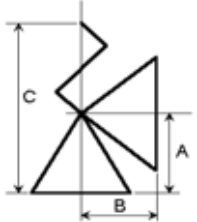


 Emerson Automation Solutions 3950 Greenbriar Stafford TX, 77477 United States (281) 274-4400 https://valvesizing.emerson.com;					Pressure Relief Valve Sizing & Selection Report 3-Mar-2021					
Quote Number:					No	Prpd.	Chk.	Appr.	Date	Revision
Client: My Company					End-User Ref. No.:					
Location:					Project Ref. No.:					
Project: VARIOUS										
1	Valve ID				41	SIZING DATA				
2	Tag No.	TBA			42	Design Code	ASME Section VIII		Sizing Std.	API 520
3	Service	Liquid			43	Sizing Basis	Blocked Discharge			
4	PID No.	7356797PRM			44	Fluid State at Inlet	Liquid			
5	Line No.	1	Quantity		45	Relieving Case	Pressure Relief			
6			2		46	Fluid Properties				
7	GENERAL				47	Fluid Name		Gasoline		
8	Valve Type	Conventional, Direct Spring-Op			48	Sp. Gravity, G		0.740		
9	Safety / Relief	Safety Relief	Balanced	No	49	Viscosity		0.65100 cP		
10	Nozzle	Full	Bonnet	Closed	50	Reynolds No.		967967.95		
11	CONNECTIONS				51	Reynolds No. (max)		1047644.08		
12	Inlet	1 1/2"	FIngd.	150# RF Standard	52					
13	Outlet	3"	FIngd.	150# RF ASME B16.5	53					
14	MATERIALS OF CONSTRUCTION				54					
15	Body / Base	CS SA216-WCB/WCC			55					
16	Bonnet / Cylinder	CS SA216-WCB/WCC			56					
17	Nozzle	316 SST			57					
18	Disc	316 SST			58					
19	Seat	Metal			59	Sizing Coefficients		Unit	-	
20	Spindle	416 SST			60	Effective K, Liquid		0.65		
21	Guide	SS A297 Gr. HE			61	Kw	Kc	1.0	1	
22	Spring	Chrome Steel - Corr. Rest.			62	Kv	Kv (max)	1	1.0	
23	Gaskets	316 SST			63					
24	Bellows	N/A			64	Required Capacity		Unit	L/min	
25	Cap Type	Screwed			65	Total		1020		
26	NACE MR0175/ISO 15156:2015	No			66					
27	Accessories				67	Pressures		Unit	kg/cm² g	
28					68	MAWP	Operating			
29					69	Set	CDTP	10.7	10.700	
30					70	Over Pressure		1.07	10%	
31	SIZING / SELECTION SUMMARY				71	Back Pressure	Built-Up		0	
32	Valve Model No.	1.5H3JLTJOS-E15J			72		Constant Superimposed		0	
33	Brand	Crosby®			73		Variable Superimposed		0	
34	Area	Calculated	Selected	0.725	74		Total		0	
35	(in²)	Data Set	Orifice	API	75	Inlet Loss		0	0%	
36	Flow	Unit	Required	L/min	76	Atmospheric (Barometric)		14.696	psia	
37			Maximum	1103.959	77	Temperatures		Unit	°C	
38					78	Normal System				
39	Reaction Force, Open Discharge		5.25 daN		79	Operating	Relieving		20	
40	Noise Level (db), Open Discharge		N/A		80	Design Min	Design Max			
Tag Notes					Valve Dimensions	in	A			
							5.13			
							B			
							4.88			
							C			
				23.50	lb	Weight				
				55						