	EMERSON							Pressure Relief Valve Sizing & Selection Report								
			edgardovicente.chiari@emerson.com				0	EV	С	-	27	-jul2021				
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Madrid, Spain +34 911 111 320								-		-						
edgardovicente,chiari@emerson.com									_		\vdash					
		Quote Ni	umber: 093-		critati@etriers	OII.COIII	No	Prp	d. Chk.	Appr.		Date		Revisi	on	
	Client:		ENERGIES				110	117	<u>u. </u>	7 (66)		Duto		1101101		
		CARTAGE			End-U	ser Ref.	No.:	201754C0	01							
	Project:	C43 "New			Project Ref. No.: U-608 Hydrogen Unit											
1	Valve ID							41		SIZING DATA						
2		Tag No. 608-TSV-1077						42	Desi	gn Code		ASME VI	II/XIII - U			
3		Service G-711B CW						43	<u> </u>				Theri	Thermal Expansion		
4		PID No. <i>P-C43-A-110990</i>						44		luid State at Inlet Liquid						
5	Line No. 3/4"CWR-5519-E			19-B1				45		Relieving Case Pressure Relief						
6	1							46 47	Fluid Pro	uid Properties						
7	GENERAL Valve Type Conventional, Direct Spring)n				Fluid Name Sp. Gravity, G			COOLING WATER 0.980			
8					Balanced No			48				cosity		0.43282 cSt		
10	Jai	Safety / Relief Safety Relief Nozzle Full			Bonnet Closed			50				olds No.		0.43202 C31		
11	CONNECTION							51		Reynolds No. (max)				514804.09		
12	Inlet				MNPT	ndard	52				()		.			
13	Outlet				FNPT	NPT ASME B		-								
14		MATERIALS OF CONSTRUCTION						54								
15	Body Cylinder CS SA216-WCB							55								
16	Body Base Connections				316 SST			56								
17		N/A			57											
18		Disc 316 SST						58								
19		Seat Metal Seals N/A						-	Sizing C	zing Coefficients						
20 21	Seals Spindle							60		Effective K, Liquid Kw Kc				1.0	0.65	
22	Guide				316 SST			62		Kv		Kv (m	ax)	7.0	1.0	
23	Spring				17-7 PH SST			63				•				
24								64	Required	quired Capacity Unit						
25	Сар Туре				Screwed & Test Rod			65	Total							
26	NACE MR0175/ISO 15156:2015				No			66						1		
27	ories									essures Operating				Unit	kg/cm² g	
20 20	esse							68		Set		CDT	_	6.5 6.5	6.500	
27 28 29 30	Accessories							70			er Pr	essure	•	0.65	10%	
31	SIZING / SELECTION SUMMARY							71					Built-U		0.65	
32	Valve	Valve Model No.			961101MFB-P					Back Constant Su					0	
33	В	rand			<i>Crosby</i> ®			73	F	ressure		Variable Superimpo		rimposed	0	
34	Area	Calculate					710	74					Total		0.65	
35	(cm²)	Data Se		_	API	1	6	75				t Loss		0	0%	
36 37	Flow	Unit	Requir Maxim		kg/hr	F073	3.816	76 77		Atmospheric (Barometric)		c)		3 kg/cm² a °C		
38	FIOW		IVIAXIIII	ulli	III		0.010	78	rempera			Normal S	Unit System		C	
39	Reaction	on Force. O	pen Discharg	n Discharge 5.4						Operating		Normal System Relieving		39	65.6	
40	Noise Level (db), Open Discharge N/A						80		Design Min Design Max			-		100		
Tag Notes	1. Standard 2. Opening 3. ASME "	Adjustmer	ISO 12944 at 5% required.	•				•				Valve Dimension	A 79.38 B 19.21 C 07.98 Veight	c	A	