	A			EMERSON				Procei	ura Dali	iof Va	alva Sizin	- 0 Cala	otion Donort	
		EMERSON edgardovicente.chiari@emerson.cc					T	Pressure Relief Valve Sizing & Selection Report						
_			edgardovice	ente.chiari@emers	son.com	0	EVC			27-	jul2021			
		7	_	Madrid Chain	-									
EMERSON Madrid, Spain +34 911 111 320														
edgardovicente,chiari@emerson.com														
		Quote Ni	ımber: 093-09		SOIT.COIT	No	Prpd	. Chk.	Appr.		Date		Revisio	n
	Client:		ENERGIES	, , , , , , , , , , , , , , , , , , ,		110	При	. Onk.	Дррі.		Duto		11011010	
			NA, SPAIN				End-Use	er Ref N	No · á	201754C0	01			
			Bios 2G Hydrot			Project Ref. No.: U-608 Hydrogen Unit								
1	Valve ID						41	SIZING DATA						
2		Tag No. 608-TSV-1058					42	Desigr	Design Code ASME VIII/XIII -				- UV Sizing Std. API 520	
3		Service E-308 CW side					43	Sizing Basis Th				Then	hermal Expansion	
4	PID No. <i>P-C43-A-110990 H5</i>			90 H51				Fluid Sta	luid State at Inlet Liquid					
5		Line No. 3/4"-CWR-5112-C			Quar	ntity	45	Relieving Case Pressure Relief						
6							46 F	luid Properties						
7	GENERAL						47	Fluid Na						G WATER
8		Valve Type Conventional, Di						Sp. Gravity, G			0.989			
9	Saf	ety / Relief		Balanced No				Viscosity Develde No.				0.55303 cSt		
10		Nozzle Full			Bonnet Closed				Reynolds No.				3649.39 770823.29	
11	lulat	Inlet 3/4" Thrd.							Reyno	eynolds No. (max)			7708	23.29
12 13	Inlet	3/4 1"	Thrd.	MNPT FNPT	ASME E		52							
14	Outlet	Outlet 1" Thrd. FNPT MATERIALS OF CONSTRUCTION			ASIVIL L	31.20.	54					<u> </u>		
15	Body Cylinder CS SA216-WCB						55							
16	Body Base				316 SST									
17	Connections													
18					ST		57 58							
19	Seat Metal				al		59 S	zing Coefficients					Unit	-
20	Seals			N/A	N/A			Effective K, Liquid				0.	65	
21	Spindle			416 S	416 SST				Kw		Kc		1.0	1
22	Guide			316 SST			62		Kv Kv (max)			ax)	0.959	1.0
23	Spring 17			17-7 PH	-7 PH SST		63							
24							64 R	equired	equired Capacity Unit kg					
25	Сар Туре							Total					53.67	
26		R0175/ISO	No	No			Proceures Linit kg/omi					1/		
27 28 29 30	<u>ö</u>							ressures	MAWP Operating			ing	<u>Unit</u> 24	kg/cm² g 3.8
20 20	9886						68 69		Set		CDT	-	24	24.00
30	Accessories					70		Over Pressure			•	2.4	10%	
31		SIZING / SELECTION SUMMARY					71		Built-Up					2.4
32	Valve I	Valve Model No.		961101MFB-P			72		Back		Constant Superimposed		•	0
33	В	rand		<i>Crosby</i> ®			73		Pressure		Variable Super		rimposed	0
34	Area	Calculate	ed Selected	0.004	0.7	10	74					Total		2.4
35	(cm²)	Data Se	t Orifice	API	6	;	75		lı	nlet L	.oss		0	0%
36		Unit	Required	d kg/hr	53.6		76			eric (Barometri	c)	1.033	kg/cm² a
37	Flow		Maximun	n	11336	3.151	77 7 0	emperati	ures				Unit	°C
38	Describer Forms C		Die 1	nn Diagharas					1°		Normal S		22	F.
39 40	·				19.8 N				erating		Reliev	-	39	50
40	Noise Level (db), Open Discharge N/A 1. Standard C4M acc. ISO 12944						80	Des	ign Min	<u> </u>	Design	A A		100
	2. Opening 3. ASME "	Adjustmen	it 5%								mm alve Dimension	79.38 B I9.21 C 07.98 /eight	c	A

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