	EMERSON  edgardovicente.chiari@emerson.con								sure Relief Valve Sizing & Selection Report							
			edgardovic	ente.chiari@emers	on.com	0	EVC	;		27-	jul2021					
EMERSONI Madrid, Spain							+									
EMERSON Madrid, Spain +34 911 111 320								+								
edgardovicente,chiari@emerson.com																
		Quote Nu	ımber: 093-0			No	Prpd	l. Chk.	Appr.		Date		Revisio	n		
Client: TECHNIP ENERGIES																
	Location:	CARTAGE			End-Use	er Ref. N	No.: 2	201754C0	01							
_	Project:	C43 "New			Project Ref. No.: U-608 Hydrogen Unit											
1	Valve ID						41		SIZING DATA							
2		Tag No. 608-TSV-1062					42		n Code		ASME VI					
3		Service <i>G-761A CW</i>					43	Sizing Basis Th				Inen	nermal Expansion			
4   5		PID No. <i>P-C43-A-110990 H52</i> Line No. 3/4"CWR-5215-B1			Qua	ntity	45		Fluid State at Inlet Liquid  Relieving Case Pressure Relief							
6		EIIO NO. 0/7 OWN-0210-01				1		Fluid Properties								
7									Fluid Name COOLING WATER							
8	\	/alve Type	Direct Spring-Op	rect Spring-Op				Sp. Gravity, G			0.:	0.980				
9	Saf	Safety / Relief Safety Rel		Balanced	No		49				cosity		0.43824	cSt		
10		Nozzle	Bonnet		50 51		Reynolds No.									
11		CONNECTIO							Reynolds No. (max)				508437.17			
12	Inlet	3/4"	Thrd.	MNPT		dard	52	-								
13 14	Outlet	Outlet 1" Thrd.		FNPT	ASME B1.20.1		53 54									
14 15	MATERIALS OF CONSTRUCTION  Body Cylinder CS SA216-WCB						55									
16	Body Cylinder  Body Base			316 SST			56									
17	Connections			N/A			57									
18	Disc 316				ST		58									
19	Seat Metal				al		59 <b>S</b>	zing Coefficients					Unit	-		
20	Seals			N/A			60	Effective K, Liquid				0.	65			
21		Spindle		416 S					Kw		Kc		1	1		
22	Guide				316 SST				Kv Kv (max)			ax)		1.0		
23 24	Spring 17-7 PH SST						63 <b>64 R</b>	Poquirod	Canaci	·+./		Unit				
2 <del>4</del>   25	Cap Type Screwed & Test R					d	65	Required Capacity Unit						l		
26	NACE MR0175/ISO 15156:2015			No			66	Total								
$\rightarrow$							ressures	ressures				Unit	kg/cm² g			
27 28 29 30	Accessories						68	MAWP			Operating		6.5	4		
29	ses						69		Set		CDT	Р	6.5	6.500		
	ĕ						70		Ove	er Pre	essure	0.65	10%			
31	Value	SIZING / SELECTION SUMMARY  Valve Model No. 961101MFB-P					71				0	Built-U	•	0.65		
32 33		rand		961101MFB-P Crosby®			72 73		Back Pressure		Constant Superir Variable Superin		•	0		
34	Area	Calculate	ed Selected		0.7	710	74				Varias	Total	iiiipooca	0.65		
35	(cm²)	Data Se		API		5	75		I	nlet L	.oss		0	0%		
36	, ,	Unit	Required	d kg/hr				А	Atmospherio		(Barometric)		1.033	kg/cm² a		
37	Flow		Maximur	n	5873	3.816	77 <b>T</b>	emperat	ures				Unit	°C		
38							78				Normal System					
39				5.4			79		erating		Reliev	-	39	65.6		
40	Noise Level (db), Open Discharge N/A  1. Standard C4M acc. ISO 12944						80	Des	sign Min	1	Design	Max A		100		
	2. Opening	i Adjustmer 'UV" Stamp	nt 5%								mm 3	79.38 B 49.21 C 07.98 Veight	c	A		

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