			EMERSON edgardovicente.chiari@emerson.com						Pressure Relief Valve Sizing & Selection Report  /C 27-jul2021						t	
		•	edgard	ovicent	e.chiari@emers	on.com	0	EVC	<i>)</i>		27-	jul2021				
_				■ Madrid, Spain					_							
EMERSON Madrid, Spain +34 911 111 320																
edgardovicente,chiari@emerson.com																
		Quote Nu	ımber: 09				No	Prpc	d. Chk.	Appr.		Date		Revisi	on	
Client: TECHNIP ENERGIES								•								
	Location:	CARTAGE	ENA, SPAIN	I					End-Us	er Ref. N	No.: 2	201754C0	01			
Project: C43 "New Bios 2G Hydrotreatment Unit"									Project Ref. No.: U-608 Hydrogen Unit							
1	Valve ID							41		SIZING DATA						
2		Tag No. 608-TSV-1076						42	Desig	Design Code   ASME VIII/XIII - UV   Sizing Std.   API 520					Std.   API 520	
3		Service G-711A CW						43		Sizing Basis Thermal Expansion						
4		PID No. <i>P-C43-A-1109</i>						44		luid State at Inlet Liquid						
5		Line No. 3/4"CWR-551		5517-B			•	45		Relieving Case Pressure Relief						
6							1		luid Pro	uid Properties						
7	GENER							47		Fluid Name				COOLING WATER		
8		Valve Type Conventiona						48		Sp. Gravity, G  Viscosity				0.980		
9	Sai	Safety / Relief   Safety Relief   Nozzle   Full			Balanced No Bonnet Closed			49 50		Reynolds No.				0.43824 cSt		
10 11		NOZZIE FUII  CONNECT						51		Reynolds No. (max)				508437.17		
12	Inlet	Inlet 3/4" Thrd.			MNPT Stand			52		Reyno	Jius IV	io. (Iliax)		300	437.17	
13		Outlet 1" Thrd.														
14	MATERIALS OF CONS															
15	Body Cylinder CS SA216-WCB							55								
16	Body Base				316 SST			56								
17	Connections				N/A			57								
18	Disc				316 SST			58								
19	Seat M					a/		59 <b>S</b>	Sizing Co	efficien	its			Unit	-	
20	Seals				N/A			60		Effective K, Liquid				(	0.65	
21	Spindle				416 SST			61		Kw		Kc		1.0	1	
22	Guide				316 SST			62		Kv		Kv (ma	ax)		1.0	
23 24	Spring 17								2 aurikad	Canaci	4			l lmi4		
24 25	Can Tyro				Screwed 8	i i			4 Required Capacity Unit							
23   26	Cap Type NACE MR0175/ISO 15156:2015			5	Screwed & Test Rod No			65	Total							
_					740				ressures					Unit	kg/cm² g	
27 28 29	Accessories							-	68 MAWP			Operating		6.5	4	
29	Sess							69		Set		CDT	-	6.5	6.500	
30	Αα							70		Ove	er Pre	essure		0.65	10%	
31		SIZING / SELECTION SUMMARY						71			0.65					
32		Valve Model No.		961101MFB-P				72		Back			Constant Superimposed		0	
33		Brand			Crosby®			73	Pr	Pressure		Variable Supe		rimposed	0	
34	Area	Calculate		ected			710	74					Total		0.65	
35	(cm²)	Data Se		fice	API	(	6	75			nlet L		,	0	0%	
36	<b></b>	Unit		uired	kg/hr	F070	0.040	76			ieric (	Barometri	c)		3 kg/cm² a	
37	Flow		IVIAXI	mum		5873	3.816	77 <b>7</b>	emperat	ures		Normal C	votom	Unit	°C	
38 39	Reaction Force, Ope		nen Discha	en Discharge 5.4		N			Or	erating	Normal Sy Relievir			39	65.6	
40	Noise Level (db), Open Discharge N/A							79 80		sign Min		Design	-	- 55	100	
		d C4M acc. Adjustmer	ISO 12944 nt 5%		,					<u> </u>		alve Dimensions  mm  3	A 79.38 B 99.21 C 07.98 /eight	c	Å	
												1 2	4 54	,	<u> </u>	

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