EMERSON								Pressure Relief Valve Sizing & Selection Report						
			edgardovid	ente.chiari@emers	son.com	0	EV	C		7-n	nar2022	N	lew valve on th	e scope.
EMERSON Madrid, Spain														
	MER	(501	ŀ											
				-34 911 111 320 ente,chiari@emers	son com									
		Quote Ni	umber: 093-0		JOI 11.00111	No	Prp	d. Chk.	Appr.		Date		Revisio	n
	Client:	TECHNIP			1.6	<u> </u>	7.66				11011010			
			NA, SPAIN					Fnd-Use	er Ref N	۷o ·	201754C0	01		
			-	treatment   Init"			Project Ref. No.: U-608 Hydrogen Unit							
1	Project: C43 "New Bios 2G Hydrotreatment Unit"  Valve ID							1 SIZING DATA						
2	Tag No. 608-TSV-1139						42	Design	Design Code   ASME VIII/XIII - UV   Sizing Std.   A					d. API 520
3	Service E-121 CW side						43		Sizing Basis Thermal Expa					'
4		PID No. <i>P-C43-A-110990 H43</i>					44	-					Liquid	
5		Line No. 3/4"CWR-3231-B1				ntity	45							
6		1					46	luid Properties						
7				47		Fluid Name Cooling water								
8	,	Direct Spring-Op			48		Sp. Gravity, G			ĺ	0.980			
9	Saf	ety / Relief	Safety Relief	Balanced No			49		,	Visco	cosity		0.43825 cSt	
10		Nozzle Full			Bonnet Closed				Reynolds No.			İ		
11	CONNECTIONS			TIONS					Reynolds No. (max) 50			5084	29.05	
12	Inlet	3/4"	Thrd.	MNPT	Stan	dard	52							
13	Outlet	1"	Thrd.	FNPT	ASME I	B1.20.	53							
14	MATERIALS OF CONSTRUCTION						54							
15			55											
16	Body Base			316 S	316 SST									
17		Connection	N/A	N/A										
18	Disc 316 SST						58							
19	Seat Metal						59 <b>3</b>	Sizing Co	izing Coefficients					-
20	Seals								Effective K, Liquid					65
21	Spindle				416 SST				Kw		Kc		1.0	1
22 23	Guide				316 SST				Kv Kv (max)			ax)		1.0
23 24		Spring 17-7 PH SST					63	Required	equired Capacity U					
25	Cap Type Screwed & Test Ro					d	65							
26	NACE M			No			66							
27							67 <b>I</b>	Pressures	ressures				Unit	kg/cm² g
28	90 rie						68		MAWP		Operating		6.5	4
29	Accessories						69		Set		CDT	Р	6.5	5.850
27 28 29 30	Ac	2					70 71		Over Pressure				0.65	10%
31		SIZING / SELECTION SUMMARY							Built-Up					0
32		Model No.	961101MFB-I				72		Back		Constant Sup			0.65
33	Е	Brand		Crosby®			73	Pr	Pressure		Variable Sup		•	0
34	Area	Calculate				710	74					Total		0.65
35	(cm²)	Data Se		API	6	6	75				let Loss		0	0%
36	<b>-</b>	Unit	Require	-	5873.816		76			eric	(Barometric)			kg/cm² a
37 38	Flow		Maximui	n			_	Temperat	ures		Name al C		Unit	°C
38 39			non Discharge	5.4	5.4 N		78 79	On	Operating		Normal System Relieving		39	65.6
39 40	Reaction Force, Open Discharge 5.4 Noise Level (db), Open Discharge						80		Design Min Design		•	39	100	
Tag Notes	1. Standar 2. Opening	, ,,	ISO 12944 nt 5%	, , , , ,			100	_ Dec			Alve Dimensions	A 79.38 B 49.21 C 07.98 Veight	c	A B
											<b>→</b>	151	K-	