1 2 3 4 5 6 7 8 9 10 11 12 13 (0 14 15 16 17 18 19 20 21 22 23 24 25	4ER		edgardovic	EMERSON ente.chiari@emers	on com			1.00	1	$\overline{}$		9				
1 2 3 4 5 6 7 8 9 10 11 12 13 (0 14 15 16 17 18 19 20 21 22 23 24 25	4ER		9	ente.chiari@emerson.com				Pressure Relief Valve Sizing & Se								
1 2 3 4 5 6 7 8 9 10 11 12 13 (0 14 15 16 17 18 19 20 21 22 23 24 25	1ER									+	,					
1 2 3 4 5 6 7 8 9 10 11 12 13 (0 14 15 16 17 18 19 20 21 22 23 24 25	1E	EMERSON Madrid, Spain														
1 2 3 4 5 6 6 7 8 9 10 11 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25			V	-34 911 111 320												
1 2 3 4 5 6 6 7 8 9 10 11 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25			ente,chiari@emers	on.com												
1 2 3 4 5 6 6 7 8 9 10 11 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25		Quote Nu	mber: 093-0			No	Prp	d. Chk.	Appr.		Date		Revision	on		
1 2 3 4 5 6 6 7 8 9 10 11 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25	Client:		ENERGIES													
1 2 3 4 5 6 6 7 8 9 10 11 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25		CARTAGE						End-U	er Ref.	No.:	201754C0	01				
1 2 3 4 5 6 7 8 9 110 111 112 113 (C) 114 115 116 117 118 119 220 221 222 223 224 225	Project: C43 "New Bios 2G Hydrotreatment Unit"								Project Ref. No.: <i>U-608 Hydrogen Unit</i>							
2 3 4 5 6 7 8 9 10 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25								41 SIZING DATA								
3 4 5 6 7 8 9 100 111 122 133 (0 144 155 166 17 18 19 220 221 222 23 24 225		Tag No.)				Desi	Design Code ASME VIII/XIII - UV Sizing Std. API :					std. API 520			
4 5 6 7 8 9 10 11 12 13 (14 15 16 17 18 19 20 22 22 22 22 22 25			E-741 CW side				42						rmal Expansion			
6 7 8 9 110 111 112 113 (114 115 116 117 118 119 220 221 222 23 24 225		PID No.	P-C43-A-1109	90 H43			44		Fluid State at Inlet Liquid							
7 8 9 10 11 12 13 (14 15 16 17 18 19 20 21 22 23 24 25	Line No. 3/4"CWR-4312			2-B1 Quantity			45	Reliev	Relieving Case				Pressure Relief			
8 9 110 111 12 113 (C 114 115 116 117 118 119 220 221 222 23 224 225				1			46		uid Properties							
9 10 11 12 13 (c) 14 15 16 17 18 19 20 21 22 23 24 25			GENER	AL			47		Fluid Name					COOLING WATER		
10 11 12 13 (14 15 16 17 18 19 20 21 22 22 23 24 25	\	/alve Type	Conventional,	Direct Spring-Op			48		Sp. Gravity, G				0.980			
11	Safety / Relief Safety Relief			Balanced No			49		Viscosity				0.43824 cSt			
12 13 (14 15 16 17 18 19 20 21 22 23 24 25	Nozzle <i>Full</i>			Bonnet		50		Reynolds No.								
13 (14 15 16 17 18 19 20 21 22 23 24 25	CONNECTIONS						51 Reynolds No. (max)					508437.17				
14	Inlet 3/4" Thrd.			MNPT	dard	52										
15 16 17 18 19 20 21 22 23 24 25	Outlet 1" Thrd.			FNPT	B1.20.1	53										
16 17 18 19 20 21 22 23 24 25		MAT	ERIALS OF CO	ONSTRUCTION			54									
17 18 19 20 21 22 23 24 25		Body Cylin	der	CS SA216-WCB			55									
18 19 20 21 22 23 24 25	Body Base			316 SST			56									
19 20 21 22 23 24 25		Connectio	ns	N/A			57									
20 21 22 23 24 25		Disc		316 S	316 SST											
21 22 23 24 25	Seat <i>Metal</i>						59 Sizing Coefficients						Unit	-		
22 23 24 25		Seals		N/A	N/A				Effective K, Liquid				C).65		
23 24 25	Spindle			416 S	ST		61		Kw Kc				1.0	1		
24 25	i			316 SST			62		Κv		Kv (ma	ax)		1.0		
25		Spring		17-7 PH SST			63									
_							-	Required	equired Capacity				Unit			
261 N		Cap Typ		Screwed & Test Rod			65	Total								
_	<u> </u>			No			66									
27 .8							-	Pressure					Unit	kg/cm² g		
28 ISS							68		MAWP		Operat	-	6.5	4		
29 8	Accessories					69		Set		CDT	Р	6.5	6.500			
							70		Over Pressure				0.65	10%		
31							71				0 : :	Built-Up		0.65		
32				961101MFB-P	•		72		Back Constant Sup Pressure Variable Sup			•		0		
33 34		Brand	d Coloate	Crosby®	0.5	710	73 74				Variable Superimpo		nposea	0 65		
	Area (cm²)	Calculate Data Se				710 6	75			Inlet L	088	Total	0	0.65		
36	(0111)	Unit	Required		(<i>-</i>	76				Barometri	c)		3 kg/cm² a		
_	Flow	Ullit	Maximur		00	844	-	Tempera		HEIIC (שמוטווופנווי	·)	Unit	°C		
38	1000		iviaxiiilul		33.	U-T-T	78	Tempera	iai es		Normal S	vstem	Oint			
39	Reaction Force, Open Discharge 5.4 N				N		_	79 Operating			Reliev	-		65.6		
_							80		sign Mi		Design			100		
1. 2.	Standare Opening	d C4M acc. Adjustmen UV" Stamp	ISO 12944 t 5%								Valve Dimension	A 79.38 B 49.21 C 07.98 /eight 4.54	c	A		