

RFQ 210630-1

GENERAL	1	ITEM	1
	2	Valve Tag Number	
	3	Number of units	3
	4	Valve Type: Conventional / Balanced	SAFETY AND RELIEF VALVE; Conventional
	5	Design type	Direct spring loaded; Full lift safety valve
	6	Manufacturer	TOSACA, SPAIN
TYPE	7	Model / Type number	1216
	8	Material Base	A351 CF3M+ECTFE
	9	Size	2" x 2" PN-40
	10	End connections	DIN 259 NPT-M / NPT-F
	11	Orifice	32 / 804,0 mm ²
	12	Bonnet: Closed / Open / vented	Closed
ACCESS	13	Lifting lever: Gastight / Plain / Packed	Gastight cap Cap: Screwed
	14	Test gag	No
	15	Bellows	No
	16	Others	No
MATERIAL	17	Body and Bonnet Bolts/ Nuts	A351 CF3M+ECTFE NA/ NA
	18	Nozzle	A351 CF3M+ECTFE
	19	Disc	SS AISI316L+ECTFE / Seat: PTFE
	20	Guide	A351 CF3M+ECTFE
	21	Spring	AISI-302+ ECTFE
	22	Bellows	-
	23	Design Code	EN 4126
BASIS OF SELECTION	24	Sizing basis	Blocked discharge
	25	Process fluid / State	Hydrochloric Acid / L
	26	Required capacity	No information
	27	Density	1149 kg/m ³ at 219 °C
	28	Operating Viscosity	cP
	29	Molecular weight, M	36,46 g/mol Cp / Cv: N/A C: N/A
	30	Set pressure (tolerance set pressure: ± 3%)	3,0 barg / 43,5 psig Temperature operation: 219° C / 426,2° F
	31	Work pressure	barg / psig
	32	Superimposed back pressure	0 barg / 0,0 psig
	33	Built-up back pressure	1,013 bar / 14,7 psi
	34	Total max. back pressure	1,013 bar a / 14,7 psi
	35	% Allowable overpressure	10 %
	36	Blow down	10%
	37	Kdr Coefficient of discharge	0,480
38	Kb Correction factor back pressure	1	
39	Z Compresibility factor	1	
40	Kr Viscosity correction	1	
41	Ksh Superheat correction factor	1	
CALCUL	42	Calculate area <i>CRITICAL FLOW</i>	NO information required capacity
	43	Selected area	Diameter: 32 mm / 804,0 mm ²
	44	Flow capacity @ Selected area	38.259,6 kg/h
	45	Calculated sound level 30 m according API 521	NA
46	Reaction force	NA	
OTHERS	47	Face to face dimension (H / V)	62 mm / 93 mm Total Height: 327 mm
	48	Packing dimension / Weight	26 cm x 13 cm x 16 cm / Total weight with packing: 5,2 kg
	49	Painting and protective coating / Color	ECTFE coating
	50	Marking	Stainless steel label, including TAG Number
	51	Material test certificate	EN 10204 3.1
	52	Inspection	Pressure equipment directive 2014/68/EU

Tosaca reference: 26730 08/07/2021 Revision: 0
 Valve code: 1216-2x2NECTFESS+ECTFE-40-P-00000-3,0L219
 Offer reference No. IBS Electronics, Inc. / RFQ 210630-1

