

397998

GENERAL	1	ITEM	1
	2	Valve Tag Number	
	3	Number of units	1
	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 C
	8	Material Base	A351 CF3M
	9	Size	25 x 25
	10	End connections	ISO-2852 CLAMP /CLAMP
	11	Orifice	18 / 254,0 mm ²
	12	Bonnet: Closed / Open / vented	Closed
ACCESSORIES	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 NA/ NA
	18	Nozzle	SS AISI316L Full nozzle
	19	Disc	SS AISI316L / Seat: Metal
	20	Guide	SS AISI316L
	21	Spring	AISI-302
	22	Bellows	-
BASIS OF SELECTION	23	Design Code	EN 4126
	24	Sizing basis	Blocked discharge
	25	Process fluid / State	GAS / G
	26	Required capacity	No information
	27	Density	1 kg/m ³ at 20 °C
	28	Operating Viscosity	cP
	29	Molecular weight, M	28 g/mol Cp / Cv: 1,4 C: 2,7
	30	Set pressure (tolerance set pressure: ± 3%)	9,0 barg / 130,5 psig Temperature operation: 20° C / 68° 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%
CALCUL	37	Kdr Coefficient of discharge	0,550
	38	Kb Correction factor back pressure	1
	39	Z Compressibility factor	1
	40	Kr Viscosity correction	1
	41	Ksh Superheat correction factor	1
	42	Calculate area <i>CRITICAL FLOW</i>	NO information required capacity
	43	Selected area	Diameter: 18 mm / 254,0 mm ²
	44	Flow capacity @ Selected area	1.271,0 kg/h
	45	Calculated sound level 30 m according API 521	98 dB Noise at 1 meter 127 dB
	46	Reaction force	84 Newton
OTHERS	47	Face to face dimension (H / V)	73 mm / 67 mm Total Height: 222 mm
	48	Packing dimension / Weight	26 cm x 13 cm x 16 cm / Total weight with packing: 3,2 kg
	49	Painting and protective coating / Color	No coating on stainless steel
	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: 19697 05/11/2019 Revision: 0
 Valve code: 1216 C-25x25SS-10-M-00000-9,0G20
 Offer reference No. Impexron GmbH / 397998

