

1982585

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
	8	Material Base	A351 CF3M
	9	Size	1" x 1" PN-40
	10	End connections	DIN 259 BSP-M / BSP-F
	11	Orifice	16 / 201,0 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	A351 CF3M
	19	Disc	SS AISI316L / Seat: Metal
	20	Guide	A351 CF3M
	21	Spring	AISI-302
	22	Bellows	-
BASIS OF SELECTION	23	Design Code	EN ISO 4126
	24	Sizing basis	Blocked discharge
	25	Process fluid / State	NO INFORMATION
	26	Required capacity	No information
	27	Density	1000 kg/m ³ at 20 °C
	28	Operating Viscosity	cP
	29	Molecular weight, M	28 g/mol Cp / Cv: N/A C: N/A
	30	Set pressure (tolerance set pressure: ± 3%)	6,0 barg / 87,0 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%
	37	Kdr Coefficient of discharge	0,480
CALCULATIONS	38	Kb Correction factor back pressure	1
	39	Z Compresibility factor	1
	40	Kr Viscosity correction	1
	41	Ksh Superheat correction factor	1
	42	Calculate area <i>CRITICAL FLOW</i>	NO information required capacity
OTHERS	43	Selected area	Diameter: 16 mm / 201,0 mm ²
	44	Flow capacity @ Selected area	12.619,3 kg/h
	45	Calculated sound level 30 m according API 521	NA
	46	Reaction force	NA
OTHERS	47	Face to face dimension (H / V)	45 mm / 60 mm Total Height: 215 mm
	48	Packing dimension / Weight	26 cm x 13 cm x 16 cm / Total weight with packing: 2,2 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: 50487 09/07/2026 Revision: 0
Valve code: 1216-1x1SS-40-M-00000-6,0L20

