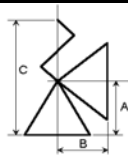


GENERAL INFO										
TECHNICAL Ref. / Item		24-2385 R1 / 1			Customer		DELTA			
Project		PR 200								
VALVE ID										
1	Tag Number	PSV-RU0001A-04, PSV-RU0001B-04,								
2	Valve Code	3A0-E23-2Z			47	Quantity	2			
VALVE DESCRIPTION					SIZING DATA					
3	Valve Type	CONVENTIONAL			48	Sizing Code	API Std 520			
4	Lift Type / Value	49	Nozzle Type	FULL LIFT / 3,1 mm	49	Basis	FIRE WETTED			
5	Bonnet Type	Closed			50	Fire Case	Yes	Governing Case	Yes	
6	Inlet	Outlet	1" ANSI 300 RF	2" ANSI 150 RF	51	Rupture Disc	No			
7	Orifice Designation/Area	E - 1,389 cm ²			MEDIUM PROPERTIES					
8	Seat Type	METAL-TO-METAL			52	Medium	PROPANE			
9	NACE Compliance	Valve Stamp	NONE	UV stamp	53	Phase	Gas			
10	Seat Tightness Test Code	Acc. To API 527			54	Ratio of Specific Heats	k	1,110	-	
11	Valve Model	Overall Dimensions	30000	Acc. to API 526	55	Molecular Weight	M	44,10	kg/kmol	
12	Cap Type	Screwed			56	Compressibility Factor	Z	0,800	-	
MATERIALS					57	Density	ρ	53,30	kg/m ³	
13	Body	A352 LCB			58	Specific Volume	v	0,019	m ³ /kg	
14	Bonnet	A352 LCB			59	Specific Gravity	G	0,05	-	
15	Cap	A216 WCB			60	Dynamic Viscosity	μ	0,01	cP	
16	Nozzle	A351 CF3M / A479 316L			REQUIRED CAPACITY					
17	Disc	A479 316L / A182 F316L			61	Required Flow Rate	W	3197	kg/h	
18	Guide	SS 316L			PRESSURES					
19	Stem	SS 316L			62	Design Pressure	Pd	22	bar g	
20	Blowdown Ring	SS 316L			63	Operating Pressure	Pop	3,7	bar g	
21	Disc-Holder	SS 316L			64	Ambient Pressure	Patm	1,013	bar a	
22	Spring	Alloy Steel			65	Set Pressure	Ps	22	bar g	
23	Spring Washer	CARBON STEEL			66	CDTP		22	bar g	
24	Gaskets	ARMED GRAPHITE + SS 316L			67	Overpressure		21	%	
25	Bolting / Nut	A193 B8M / A194 8M			68	Relieving Pressure	P0	27,63	bar a	
ACCESSORIES					69	Superimposed Bkp	Constant	Pbvs	0,00	bar g
26	Bellows	N/A			70		Variable	Pbcs	0,00	bar g
27	Balanced Piston	N/A			71		Total	Pbcs	0,00	bar g
28	Lifting Lever	N/A			72	Built-up Backpressure	Pbb	0,00	bar g	
29	Test Gag	YES			73	Total BackPressure	Pb	0,00	bar g	
30	Jacket	N/A			74	Blowdown		7-10%		
31	Flushing Nozzle	N/A			TEMPERATURES					
32	Bug Screen	N/A			75	Design Temp.		-45/+120	°C	
33	Body Spacer	N/A			76	Operating Temp.		-0,07	°C	
34	Trevi Test (coupling)	N/A			77	Relieving Temperature		70,1	°C	
35	Valve Painting	PICT SPEC			78	Ambient Temp.		-	°C	
SIZING RESULTS					SIZING CRITICAL FLOW - GAS&VAPOURS - API 520					
36	Calculated Area	A	1,3552	cm ²	79	Critical / Subcritical Flow	CRITICAL			
37	Selected Orifice/Area	E - 1,389 cm ²			80	C Factor	C	2,489	-	
38	Area Gain	-	2,00	%	81	Discharge Coefficient	KD	0,951	-	
39	Maximum Flow Rate	WT	3276,79	kg/h	82	Backpressure Corr. Factor	KBP	1,00	-	
40	Reaction force (Flow)	FF	264,00	N	83	Subcritical Corr. Factor	Kb	-	-	
41	Reaction force (Static Bkp)	FB	0,00	N	84	Rupture Disk Corr. Factor	KC	1,0	-	
42	Total Reaction Force	FT	264,00	N	85	Subcritical Corr. Factor	Kb	-	-	
43	Noise Level @ 30m	L30	103,84	dB	86	Viscosity Corr. Factor	KV	-	-	
44	Distance d	d	1,00	m	87	Reynolds Number	Re	-	-	
45	Outlet Tube Diameter	da	0,05	m						
46	Noise Level @ distance d	Ld	133,77	dB						
Process data are under customer responsibility.										
 <p>DIM. (mm) & WT (kg): 105 (A); 115 (B); 365 (C); 15 (WT)</p>										
1	28/08/2024	FIRST ISSUE			TCH	B. CAVALIERI				
REV	DATE	DESCRIPTION			PREP.	CHECK.	APPROV.			