

SAFETY VALVE DATASHEET

GENERAL INFO

1	TECHNICAL Ref. / Item	24-2385 / 2	4	Project	PO DELTA-TECHNICAL-2024-PO-200	DELTA GMBH
2	Valve Code	3A0-FA3-BW	5	Quantity	2	
3	Tag Number	PSV-RU0001A-02, PSV-RU0001B-02,				

BASIS OF SELECTION

6	Basis	FIRE WETTED	10	Fire Case	Yes	
7	Sizing Code	API Std 520	11	Rupture Disc	No	
8	Valve Stamp	UV Stamp	12	Governing Case	Yes	
9	Other Approval	-	13	NACE Compliance	NONE	

DESIGN DATA

14	Inlet	1,5" 300# RF	20	Outlet	2" 150# RF	
15	Valve Model	30000	21	Orifice Designation/Area	F - 2,164 cm ²	
16	Valve Type	CONVENTIONAL	22	Lift Type / Value	FULL LIFT / 4 mm	
17	Seat Type	METAL-TO-METAL	23	Bonnet Type	CLOSED	
18	Overall Dimensions	Acc. to API 526	24	Body Type	CAST	
19	Seat Tightness Test Code	Acc. To API 527	25	Cap Type	SCREWED CAP	

SERVICE CONDITION

26	Design Pressure	Pd	22	bar g	42	Design Temp.	-45 /120	°C
27	Operating Pressure	Pop	19,7	bar g	43	Operating Temp.	56,32	°C
28	Ambient Pressure	Patm	1,013	bar a	44	Ambient Temp.	RT	°C
29	Set Pressure	Ps	22	bar g	45	Relieving Temperature	70,1	°C
30	CDTP		22	bar g	46	Phase / Medium	GAS / PROPANE	
31	Overpressure	Overp	21	%	47	Required Flow Rate	W	3479 kg/h
32	Relieving Pressure	PO	27,63	bar a	48	Discharge Coefficient	KD	0,951
33	Superimposed Bkp				49	Maximum Flow Rate	WT	5105,09 kg/h
34	Constant	Pbvs	0	bar g	50	Molecular Weight	M	44,10 kg/kmol
35	Variable	Pbcs	0	bar g	51	Compressibility Factor	Z	0,80
36	Total	Pbs	0	bar g	52	Ratio of Specific Heats	k	1,11
37	Built-up Backpressure	Pbb	0	bar g	53	Density	ρ	- kg/m ³
38	Total BackPressure	Pb	0	bar g	54	Specific Gravity	G	-
39	Calculated Area	A	1,4748	cm ²	55	Specific Volume	v	- m ³ /kg
40	Selected Area	As	2,164	cm ²	56	Dynamic Viscosity	μ	- cP
41	Area Gain	-	47,00	%	57	Blowdown	7-10%	

MATERIALS

58	Body	A352 LCB	65	Stem	SS 316L			
59	Bonnet	A352 LCB	66	Blowdown Ring	SS 316L			
60	Cap	A352 LCB	67	Disc-Holder	SS 316L	+SS316L		
61	Nozzle	A351 CF3M / A479 316L	68	Spring	ALLOY STEEL			
62	Disc	A479 316L / A182 F316L	69	Spring Washer	CARBON STEEL			
63	Seat	N/A	70	Gaskets	ARMED GRAPHITE			
64	Guide	SS 316L	71	Bolting / Nut	A193 B8M / A194 8M			

ACCESSORIES

72	Bellows	N/A	78	Bug Screen	N/A			
73	Balanced Piston	N/A	79	Weather Hood	N/A			
74	Lifting Lever	N/A	80	Grease Injection	N/A			
75	Test Gag	YES	81	Body Spacer	N/A			
76	Jacket	N/A	82	Trevi Test (coupling)	N/A			
77	Flushing Nozzle	N/A	83	Bearing	N/A			

PAINTING / COATING

84	Valve Painting	SYSTEM 24-2385 RAL 7038	85					
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REMARKS

Process data are under customer responsibility.

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REV	DATE	DESCRIPTION	PREP.	CHECK.	APPROV.