

# SAFETY VALVE DATASHEET

### GENERAL INFO

1	TECHNICAL Ref. / Item	24-2385 / 1	4	Project	PO DELTA-TECHNICAL-2024-PO-200	DELTA GMBH
2	Valve Code	3A0-E23-BW	5	Quantity	2	
3	Tag Number	PSV-RU0001A-03, PSV-RU0001B-03,				

### 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" 300# RF	20	Outlet	2" 150# RF
15	Valve Model	30000	21	Orifice Designation/Area	E - 1,389 cm <sup>2</sup>
16	Valve Type	CONVENTIONAL	22	Lift Type / Value	FULL LIFT / 3,1 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	3,7	bar g	43	Operating Temp.	-0,07	°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	3197 kg/h
32	Relieving Pressure	PO	27,63	bar a	48	Discharge Coefficient	KD	0,951
33	Superimposed Bkp				49	Maximum Flow Rate	WT	3276,79 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/m3
38	Total BackPressure	Pb	0	bar g	54	Specific Gravity	G	-
39	Calculated Area	A	1,3552	cm <sup>2</sup>	55	Specific Volume	v	- m3/kg
40	Selected Area	As	1,389	cm <sup>2</sup>	56	Dynamic Viscosity	μ	- cP
41	Area Gain	-	2,00	%	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
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 + SS 316L
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		
----	----------------	-------------------------	----	--	--

### REMARKS

Process data are under customer responsibility.

1	03/10/2024	REVISED AS PER CLIENT COMMENTS	L. DI VIRGILIO	P.L.DELPONTE	R. BIANCHI
0	30/09/2024	FIRST ISSUE	R. BIANCHI	P.L.DELPONTE	R. BIANCHI
REV	DATE	DESCRIPTION	PREP.	CHECK.	APPROV.