

GENERAL	1	Tag Number	PSV-RU0001A-04,PSV-RU0001B-04	
	2	Service	EVAPORATOR	
	3	Line No.	Equipment No.	3"-PR-RU0001-ML3R1-C RU0001(A/B)-E-02
	4	P&ID	Vessel Dimension mm	EI027-HSE-VD-PR-PID-002 (5/7)
	5	Design	Safety-Relief	
	6	Type : Conventional, Bellow, Pilot	Conventional	
	7	Bonnet Type	Nozzle (Full, Semi)	Closed Full
	8	Pipe Rating Inlet	Pipe Rating Outlet	300# 150#
PROCESS CONDITIONS	9	Fluid State	Corrosive	VAPOR PROPANE
	10	Required Capacity	3197 kg/h	
	11	Molecular Weight	Sp. Gravity Liq /	44.1 0.437
	12	Pressure Nor / Max	Set Pressure	4.7 bara 22 barg
	13	Temperature Nor /	Relieving	-0.07 70.1°C
	14	Back Pressure	Superimposed+built	0
	15		built up back	0
	16		Total	0
	17	% Allowable Overpressure	21%	
	18	% Blow Down	7.5	
	19	Compressibility Factor	0.8	
	20	Latent Heat of Vaporization	211 kJ/kg	
	21	Ratio of Specific Heats @ Relief	1.11	
	22	Relief Density	Relief Viscosity	53.3 kg/m3 0.0078 cP
	23	Reactive Force	Noise Level	VTA VTA
	24	Barometric Pressure	1.0132	
	25	Design Pressure Max	22	
	26	Design Temperature Min / Max	-45 120	
BASIS AND SELECTION	27	Design Code	Vessel Design Code	API RP 526 ASME SEC. VIII Div 1. without U
	28	Manufacturer Code	API 520	
	29	Sizing Basis	Fire Wetted	
	30	Sizing Case	Fire Wetted	
	31	Calculated Area	0.184 in2 (VTA)	
	32	Selected Area	0.196 in2 (VTA)	
	33	Orifice Designation	E (VTA)	
	34	Rated Capacity	3396 kg/h (VTA)	
	35	Seat Leakage	Cold Diff. Test	As per API RP 527 22
	36			
CONNECTI ONS	37	Size: Inlet	Outlet	1" (VTA) 2" (VTA)
	38	Rating & Facing:	Outlet	300# 150#
MATERIALS	39	Body and Bonnet	A352 LCB	
	40	Nozzle / Disc	A351 CF3M ST. / A479 316L ST.	
	41	Blowdown Ring / Locking Screw	SS 316L	
	42	Guide	A351 CF3M	
	43	Spring	CHROME ALLOY STEEL	
	44	Bellows	SS 316L	
	45	Body Stud Bolts / Nut	A193 B7 / A194 Gr.2H	
46	NACE MR-01-75 / ISO 15156	NA		
OPTIONS	47	Cap: Screwed or Bolted	Bolted	
	48	Lever: Plain or Packed	Not Required	
	49	Test Gag	Yes	
	50	Color	Cycle Deltaberg-1 + RAL 7038	
PURCHASE	51	Manufacturer		
	52	Model		

Notes:

1) DOCUMENTATIONS:

GENERAL	1	Tag Number	PSV-RU0001A-05,PSV-RU0001B-05		
	2	Service	Receiver		
	3	Line No.	Equipment No.	2"-PR-RU0001(A/B)10-ML3R1-N	
	4	P&ID	Vessel Dimension mm	EI027-HSE-VD-PR-PID-002 (5/7)	
	5	Design	Safety-Relief		
	6	Type : Conventional, Bellow, Pilot	Conventional		
	7	Bonnet Type	Nozzle (Full, Semi)	Closed Full	
	8	Pipe Rating Inlet	Pipe Rating Outlet	300# 150#	
PROCESS CONDITIONS	9	Fluid State	Corrosive	VAPOR PROPANE	
	10	Required Capacity	3479 kg/h		
	11	Molecular Weight	Sp. Gravity Liq /	44.1 0.437	
	12	Pressure Nor / Max	Set Pressure	19.7 bara 22 barg	
	13	Temperature Nor /	Relieving	56.32 70.1°C	
	14	Back Pressure	Superimposed+built	0	
	15		built up back	0	
	16		Total	0	
	17	% Allowable Overpressure	21%		
	18	% Blow Down	7.5		
	19	Compressibility Factor	0.8		
	20	Latent Heat of Vaporization	211 kJ/kg		
	21	Ratio of Specific Heats @ Relief	1.11		
	22	Relief Density	Relief Viscosity	53.3 kg/m3 0.0078 cP	
	23	Reactive Force	Noise Level	VTA VTA	
	24	Barometric Pressure	1.0132		
	25	Design Pressure Max	22		
	26	Design Temperature Min / Max	-45 120		
	BASIS AND SELECTION	27	Design Code	Vessel Design Code	API RP 526 ASME SEC. VIII Div 1. without U
		28	Manufacturer Code	API 520	
29		Sizing Basis	Fire Wetted		
30		Sizing Case	Fire Wetted		
31		Calculated Area	0.201 in2 (VTA)		
32		Selected Area	0.307 in2 (VTA)		
33		Orifice Designation	F (VTA)		
34		Rated Capacity	5320 kg/h (VTA)		
35		Seat Leakage	Cold Diff. Test	As per API RP 527 22	
36					
CONNECT IONS	37	Size: Inlet	Outlet	1.5" (VTA) 2" (VTA)	
	38	Rating & Facing:	Outlet	300# 150#	
MATERIALS	39	Body and Bonnet	A352 LCB		
	40	Nozzle / Disc	A351 CF3M ST. / A479 316L ST.		
	41	Blowdown Ring / Locking Screw	SS 316L		
	42	Guide	A351 CF3M		
	43	Spring	CHROME ALLOY STEEL		
	44	Bellows	SS 316L		
	45	Body Stud Bolts / Nut	A193 B7 / A194 Gr.2H		
46	NACE MR-01-75 / ISO 15156	NA			
OPTIONS	47	Cap: Screwed or Bolted	Bolted		
	48	Lever: Plain or Packed	Not Required		
	49	Test Gag	Yes		
	50	Color	Cycle Deltaberg-1 + RAL 7038		
PURCHASE	51	Manufacturer			
	52	Model			

Notes:

1) DOCUMENTATIONS: