



PETROCHEMICAL INDUSTRIES  
DESIGN & ENGINEERING CO.  
PROJ. NO. : 1175

mg engineering  
Lural  
Proj. no.69666-01

4 TH METHANOL PLANT

DATA SHEET FOR  
TANK VENTING DEVICES

DOC. NO.: P-DSH-PV-TKV4001-3



OWNER  
ZAGROS PETROCHEMICAL  
COMPANY (ZPC)  
PROJ. NO. : 40404277

Pressure unit: mmH2O  
Flow unit: Nm3/h of Air

GENERAL	1	Tank No./ Line-No.	TK-4501A	TK-4501A	TK-4501A
	2	Service	Methanol	Methanol	Methanol
	3	Tag No.	45SPX-008	45SPX-009	45SPX-011
	4	Model No.			
	5	Qty.	1	1	1
	6	Type	Pressure + Vacuum	Pressure + Vacuum	Pressure+Vacuum
	7	Sizing with/ Without flame arrester	Without	Without	Without
	8	Set Pressure	22	22	22
	9	Relieving pressure	32	33	32
	10	Capacity @ Relieving Pres.	2046	1652	4242
	11	Inlet size / End Connection	10" / ANSI B16.5	12" / ANSI B16.5	8" /ANSI B16.5
	12	Facing & finish	150#, RF, serrated	150#, RF, serrated	150#, RF, serrated
	13	Outlet size & End Connection	-	-	-
	14	Facing & finish	-	-	-
	15	Type of seating	Soft, non-stick	Soft, non-stick	Soft, non-stick
	16	Material -Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
	17	- Seat	AISI 316L	AISI 316L	AISI 316L
	18	- Diaphragm	PTFE	PTFE	PTFE
	19	- O Ring			
	20	Test connection below pallet			
	21	Tag No.	45SPX-002 A/B	45SPX-007	
	22	Model No.			
	23	Qty.	2	1	
	24	Type	Pressure & Vacuum	Pressure & Vacuum	
	25	Sizing with/ Without flame arrester	Without	Without	
	26	Set Pressure	51	25	
	27	Relieving pressure	91	50	
	28	Capacity @ Relieving Pres.	8579	3867	3814
	29	Inlet size / End Connection	12" / ANSI B16.5	8" / ANSI B16.5	
	30	Facing & finish	150#, RF, serrated	150#, RF, serrated	
	31	Outlet size & End Connection	-	-	
	32	Facing & finish	-	-	
	33	Type of seating	Soft, non-stick	Soft, non-stick	
	34	Material -Body	A216 WCB	A216 WCB	
	35	- Seat	AISI 613L	AISI 613L	
	36	- Diaphragm	PTFE	PTFE	
	37	- O Ring			
	38	Test connection below pallet			
	38.1	Limit switch tag number	Will be informed later	Will be informed later	
	39	Tag No.			
	40	Model No.			
	41	Qty.			
	42	Mounting - Horizontal	Vertical		
	43	Sizing - With vent	Without vent		
	44	Size & End connection			
	45	Facing & finish			
	46	Material - Body & flanges			
	47	- Shell	Bank		
	48	Bank Retractable			
	49	Capacity @ Relieving Pres.	@ Relieving Vac.		
	50	Tag No.	45SPX-001		
	51	Model No.			
	52	Qty.	1		
	53	Type	Weight loaded		
	54	Size / End Connection	18" / API650 roof M.H.		
	55	Material - Body	ASTM A283-D	ASTM A283-D	
	56	- Mesh	-	PTFE	
	57	Set Pressure	122	-	
	58	Relieving pressure	147	-	
	59	Capacity @ Relieving Pres.	12874	-	
	60	Fluid	N2+vapor	11°C	
	61	Tank Diameter (m)	Height (m)	63	24.1
	62	Tank Design Pr.	Design Vacuum	150	60
	63	Inert Gas Blanket		N2	N2
	64	Discharge To (Em. vent/ Breather vent/Rim vent)		Atm. / Atm./ tank	Atm. / Atm./ tank
	65	Equivalent Air:- in.	- out.		

Pressure unit: mmH2O





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PROJ. NO. : 40404277

GENERAL		Flow unit:		Nm <sup>3</sup> /h of Air	
1	Tank No./ Line No.	TK-4501B		TK-4501B	
2	Service	Methanol		Methanol	
3	Tag No.	45SPX-014		45SPX-015	
4	Model No.			45SPX-016	
5	Qty.	1		1	
6	Type	Pressure + Vacuum		Pressure + Vacuum	
7	Sizing with/ Without flame arrester	Without		Without	
8	Set Pressure	Set Vacuum	22	22	22
9	Relieving pressure	Relieving Vacuum	32	33	32
10	Capacity @ Relieving Pres.	@ Relieving Vac.	2046	1652	4242
11	Inlet size / End Connection	10" / ANSI B16.5		12" / ANSI B16.5	
12	Facing & finish	150#, RF, serrated		150#, RF, serrated	
13	Outlet size & End Connection			8" / ANSI B16.5	
14	Facing & finish			150#, RF, serrated	
15	Type of seating	Soft, non-stick		Soft, non-stick	
16	Material -Body	ASTM A216 WCB		ASTM A216 WCB	
17	- Seat	- Trim	AISI 316L	AISI 316L	ANSI 316L
18	- Diaphragm	PTFE		PTFE	
19	- O Ring			PTFE	
20	Test connection below pallet				
21	Tag No.	45SPX-004 A/B		45SPX-010	
22	Model No.				
23	Qty.	2		1	
24	Type	Pressure & Vacuum		Pressure & Vacuum	
25	Sizing with/ Without flame arrester	Without		Without	
26	Set Pressure	Set Vacuum	51	25	51
27	Relieving pressure	Relieving Vacuum	91	50	91
28	Capacity @ Relieving Pres.	@ Relieving Vac.	8579	3867	3814
29	Inlet size / End Connection	12" / ANSI B16.5		8" / ANSI B16.5	
30	Facing & finish	150#, RF, serrated		150#, RF, serrated	
31	Outlet size & End Connection				
32	Facing & finish				
33	Type of seating	Soft, non-stick		Soft, non-stick	
34	Material -Body	A216 WCB		A216 WCB	
35	- Seat	- Trim	AISI 613L	AISI 613L	
36	- Diaphragm	PTFE		PTFE	
37	- O Ring				
38	Test connection below pallet				
38.1	Limit switch tag number	Will be informed later		Will be informed later	
39	Tag No.				
40	Model No.				
41	Qty.				
42	Mounting - Horizontal	Vertical			
43	Sizing - With vent	Without vent			
44	Size & End connection				
45	Facing & finish				
46	Material - Body & flanges				
47	- Shell	Bank			
48	Bank Retractable				
49	Capacity @ Relieving Pres.	@ Relieving Vac.			
50	Tag No.	45SPX-003			
51	Model No.				
52	Qty.	1			
53	Type	Weight loaded			
54	Size / End Connection	18" / API650 roof M.H.			
55	Material - Body	Cover	ASTM A283-D	ASTM A283-D	
56	- Mesh	Diaphragm	-	PTFE	
57	Set Pressure	Set Vacuum	122	-	
58	Relieving pressure	Relieving Vacuum	147	-	
59	Capacity @ Relieving Pres.	@ Relieving Vac.	12874	-	
60	Fluid	Flash point	N2+vapor	11°C	
61	Tank Diameter (m)	Height (m)	63	24.1	63
62	Tank Design Pr.	Design Vacuum	150	60	150
63	Inert Gas Blanket	N2		N2	
64	Discharge To (Em. vent/ Breather vent/Rim vent)	Atm. / Atm./ tank		Atm. / Atm./ tank	
65	Equivalent Air: - in.	- out.			

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Pressure unit: mmH2O





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				Flow unit:		Nm3/h of Air	
GENERAL	1	Tank No./ Line-No.		TK-4501C	TK-4501C	TK-4501C	
	2	Service		Methanol	Methanol	Methanol	
	3	Tag No.		45SPX-017	45SPX-018	45SPX-019	
	4	Model No.					
	5	Qty.		1	1	1	
	6	Type		Pressure + Vacuum	Pressure + Vacuum	Pressure + Vacuum	
	7	Sizing with/ Without flame arrester		Without	Without	Without	
	8	Set Pressure	Set Vacuum	22	22	22	22
	9	Relieving pressure	Relieving Vacuum	32	33	32	33
	10	Capacity @ Relieving Pres.	@ Relieving Vac.	2046	1652	4242	2493
	11	Inlet size / End Connection		10" / ANSI B16.5	12" / ANSI B16.5	8" / ANSI B16.5	
	12	Facing & finish		150#, RF, serrated	150#, RF, serrated	150#, RF, serrated	
	13	Outlet size & End Connection		-	-	-	
	14	Facing & finish		-	-	-	
	15	Type of seating		Soft, non-stick	Soft, non-stick	Soft, non-stick	
	16	Material -Body		ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	
	17	- Seat	- Trim	AISI 316L	AISI 316L	AISI 316L	
	18	- Diaphragm		PTFE	PTFE	PTFE	
	19	- O Ring					
	20	Test connection below pallet					
RIM VENT	21	Tag No.		45SPX-006 A/B	45SPX-013		
	22	Model No.					
	23	Qty.		2	1		
	24	Type		Pressure & Vacuum	Pressure & Vacuum		
	25	Sizing with/ Without flame arrester		Without	Without		
	26	Set Pressure	Set Vacuum	51	25	51	25
	27	Relieving pressure	Relieving Vacuum	91	50	91	50
	28	Capacity @ Relieving Pres.	@ Relieving Vac.	8579	3867	3814	1428
	29	Inlet size / End Connection		12" / ANSI B16.5	8" / ANSI B16.5		
	30	Facing & finish		150#, RF, serrated	150#, RF, serrated		
	31	Outlet size & End Connection		-	-		
	32	Facing & finish		-	-		
	33	Type of seating		Soft, non-stick	Soft, non-stick		
	34	Material -Body		A216 WCB	A216 WCB		
	35	- Seat	- Trim	AISI 613L	AISI 613L		
	36	- Diaphragm		PTFE	PTFE		
	37	- O Ring					
	38	Test connection below pallet					
38.1	Limit switch tag number		Will be informed later	Will be informed later			
BREATHER VENT	39	Tag No.					
	40	Model No.					
	41	Qty.					
	42	Mounting - Horizontal	Vertical				
	43	Sizing - With vent	Without vent				
	44	Size & End connection					
	45	Facing & finish					
	46	Material - Body & flanges					
	47	- Shell	Bank				
48	Bank Retractable						
49	Capacity @ Relieving Pres.	@ Relieving Vac.					
FLAME ARRESTER	50	Tag No.		45SPX-005			
	51	Model No.					
	52	Qty.		1			
	53	Type		Weight loaded			
	54	Size / End Connection		18" / API650 roof M.H.			
	55	Material - Body	Cover	ASTM A283-D	ASTM A283-D		
	56	- Mesh	Diaphragm	-	PTFE		
	57	Set Pressure	Set Vacuum	122	-		
	58	Relieving pressure	Relieving Vacuum	147	-		
59	Capacity @ Relieving Pres.	@ Relieving Vac.	12874	-			
60	Fluid	Flash point	N2+vapor	11°C			
VENT/ Emergency Vent	61	Tank Diameter (m)	Height (m)	63	24.1		
	62	Tank Design Pr.	Design Vacuum	150	60	150	60
	63	Inert Gas Blanket		N2	N2		
	64	Discharge To (Em. vent/ Breather vent/Rim vent)		Atm. / Atm./ tank	Atm. / Atm./ tank		
	65	Equivalent Air:- in.	- out.				
Service Conditions	61	Tank Diameter (m)	Height (m)	63	24.1		
	62	Tank Design Pr.	Design Vacuum	150	60	150	60
	63	Inert Gas Blanket		N2	N2		
	64	Discharge To (Em. vent/ Breather vent/Rim vent)		Atm. / Atm./ tank	Atm. / Atm./ tank		
	65	Equivalent Air:- in.	- out.				

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