

		4 TH METHANOL PLANT DATA SHEET FOR TANK VENTING DEVICES DOC. NO.: P-DSH-PV-TKV4001-3	
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				Pressure unit: mmH2O		Flow unit: Nm3/h of Air	
GENERAL	1	Tank No./ Line No.	TK-4001		TK-4002A		TK-4002B
	2	Service	Methanol		Methanol		Methanol
RIM VENT	3	Tag No.			40SPX-010		40SPX-011
	4	Model No.					
	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	32	32
	10	Capacity @ Relieving Pres.	@ Relieving Vac.		2946	1652	2946
	11	Inlet size / End Connection			10" / ANSI B16.5		10" / ANSI B16.5
	12	Facing & finish			150#, RF, serrated		150#, RF, serrated
	13	Outlet size & End Connection			-		-
	14	Facing & finish			-		-
	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
	18	- Diaphragm			PTFE		PTFE
	19	- O Ring					
	20	Test connection below pallet					
BREATHER VENT	21	Tag No.	40SPX-002		40SPX-005		40SPX-007
	22	Model No.					
	23	Qty.	1		1		1
	24	Type	Pressure & Vacuum		Pressure & Vacuum		Pressure & Vacuum
	25	Sizing with/ Without flame arrester	Without		Without		Without
	26	Set Pressure	Set Vacuum	51	25	51	25
	27	Relieving pressure	Relieving Vacuum	91	43	66	45
	28	Capacity @ Relieving Pres.	@ Relieving Vac.	3814	1428	3660	2365
	29	Inlet size / End Connection	8" / ANSI B16.5		10" / ANSI B16.5		10" / ANSI B16.5
	30	Facing & finish	150#, RF, serrated		150#, RF, serrated		150#, RF, serrated
	31	Outlet size & End Connection	-		-		-
	32	Facing & finish	-		-		-
	33	Type of seating	Soft, non-stick		Soft, non-stick		Soft, non-stick
	34	Material -Body	ASTM A216 WCB		ASTM A216 WCB		ASTM A216 WCB
	35	- Seat	- Trim	AISI 316L		AISI 316L	AISI 316L
	36	- Diaphragm	PTFE		PTFE		PTFE
	37	- O Ring					
	38	Test connection below pallet					
	38.1	Limit switch tag number	Will be informed later		Will be informed later		Will be informed later
FLAME ARRESTER	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					
VENT/ Emergency Vent	50	Tag No.	40SPX-003		40SPX-004		40SPX-006
	51	Model No.					
	52	Qty.	1		1		1
	53	Type	Weight loaded		Weight loaded		Weight loaded
	54	Size / End Connection	18" / API650 roof M.H.		18" / API650 roof M.H.		18" / API650 roof M.H.
	55	Material - Body	Cover	ASTM A283-D	ASTM A283-D	ASTM A283-D	ASTM A283-D
	56	- Mesh	Diaphragm	-	PTFE	-	PTFE
	57	Set Pressure	Set Vacuum	122	-	122	-
	58	Relieving pressure	Relieving Vacuum	147	-	147	-
	59	Capacity @ Relieving Pres.	@ Relieving Vac.	12874	-	12874	-
	60	Fluid	Flash point	N2+vapor	11°C	N2+vapor	11°C
Service Conditions	61	Tank Diameter (m)	Height (m)	22	20.2	15	21.4
	62	Tank Design Pr.	Design Vacuum	200	60	200	60
	63	Inert Gas Blanket	N2		N2		N2
	64	Discharge To (Em. vent/ Breather vent/Rim vent)	Atm. / Atm./ tank		Atm. / Atm./ tank		Atm. / Atm./ tank
	65	Equivalent Air:- in.	- out.				
3	02/Mar/2019	AS BUILT			H.Safari	B.Nazari	
2	21/May/2003	ISSUEED FOR PURCHASE			A.P.	M.S.J.	M.M.
0	7/May/2002	ISSUEED FOR INQUIRY			A.P.	M.S.J.	M.M.
REV.	DATE	DESCRIPTION			PREPARED	APPROVED	PROJECT

ccc: pv



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	Set Vacuum	22	22	22	22	22	22
	9	Relieving pressure	Relieving Vacuum	32	33	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-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	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							
BREATHING VENT	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						
FLAME ARRESTER	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	Cover	ASTM A283-D	ASTM A283-D				
VENT/ Emergency Vent	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		N2+vapor		11°C			
	61	Tank Diameter (m)		63		24.1			
Service Conditions	62	Tank Design Pr.		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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DOC. NO.: P-DSH-PV-TKV4001-3



OWNER

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

GENERAL		Flow unit:		Nm ³ /h of Air	
RIM VENT	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
	9	Relieving pressure	Relieving Vacuum	32	33
	10	Capacity @ Relieving Pres.	@ Relieving Vac.	2046	1652
	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	ANSI 316L
	18	- Diaphragm	PTFE		PTFE
	19	- O Ring			PTFE
	20	Test connection below pallet			
BREATHING VENT	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
	27	Relieving pressure	Relieving Vacuum	91	50
	28	Capacity @ Relieving Pres.	@ Relieving Vac.	8579	3867
	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			
FLAME ARRESTER	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		
VENT/ Emergency Vent	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	-
Service Conditions	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
	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.		

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Pressure unit: mmH2O



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



OWNER

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

		Flow unit:		Nm3/h of Air	
GENERAL	1	Tank No. / Line No.		TK-4501C	TK-4501C
	2	Service		Methanol	Methanol
	3	Tag No.		45SPX-017	45SPX-018
	4	Model No.			45SPX-019
	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
	9	Relieving pressure	Relieving Vacuum	32	33
	10	Capacity @ Relieving Pres.	@ Relieving Vac.	2046	1652
	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		-	-
	14	Facing & finish		-	-
	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
	18	- Diaphragm		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
	27	Relieving pressure	Relieving Vacuum	91	50
	28	Capacity @ Relieving Pres.	@ Relieving Vac.	8579	3867
	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			
BREATHING VENT	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		
FLAME ARRESTER	48	Bank Retractable			
	49	Capacity @ Relieving Pres.	@ Relieving Vac.		
	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
VENT/ Emergency Vent	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
	62	Tank Design Pr.	Design Vacuum	150	60
	63	Inert Gas Blanket		N2	N2
Service Conditions	64	Discharge To (Em. vent/ Breather vent/Rim vent)		Atm. / Atm./ tank	Atm. / Atm./ tank
	65	Equivalent Air:- in.	- out.		

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