



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

**mg engineering**  
*Lurai*

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-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
27		Relieving pressure	Relieving Vacuum	91	43	66
28		Capacity @ Relieving Pres.	@ Relieving Vac.	3814	1428	3660
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					
49	Capacity @ Relieving Pres.	@ Relieving Vac.				
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.	
	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	
Service Conditions	61	Tank Diameter (m)	Height (m)	22	20.2	
	62	Tank Design Pr.	Design Vacuum	200	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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REV.	DATE	DESCRIPTION	PREPARED	APPROVED	PROJECT
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.

ccc: pv