








Contractor:  <b>TIANCHEN CORP. CHINA</b>	PROJECT	MKP Methanol Project			Owner :  شرکت کیمیاوی پارس خاور میانه <i>Middle East Kinlaya Pars Co.</i>	
	UNIT	Flare	PHASE	Detail Engineering		
	Doc. Title	Process Data Sheet for Flare KOD				
	Owner No.	MKP-11-DE-8500-PR-DSH-001				
	Contractor No.	MKP-11-DE-8500-PS11-DSH-031				
Licensor: <b>HALDOR TOPSOE</b> 	TOPSOE No.	N/A			Rev. : 2	Page : 1 of 4




## Process Data Sheet for Flare KOD

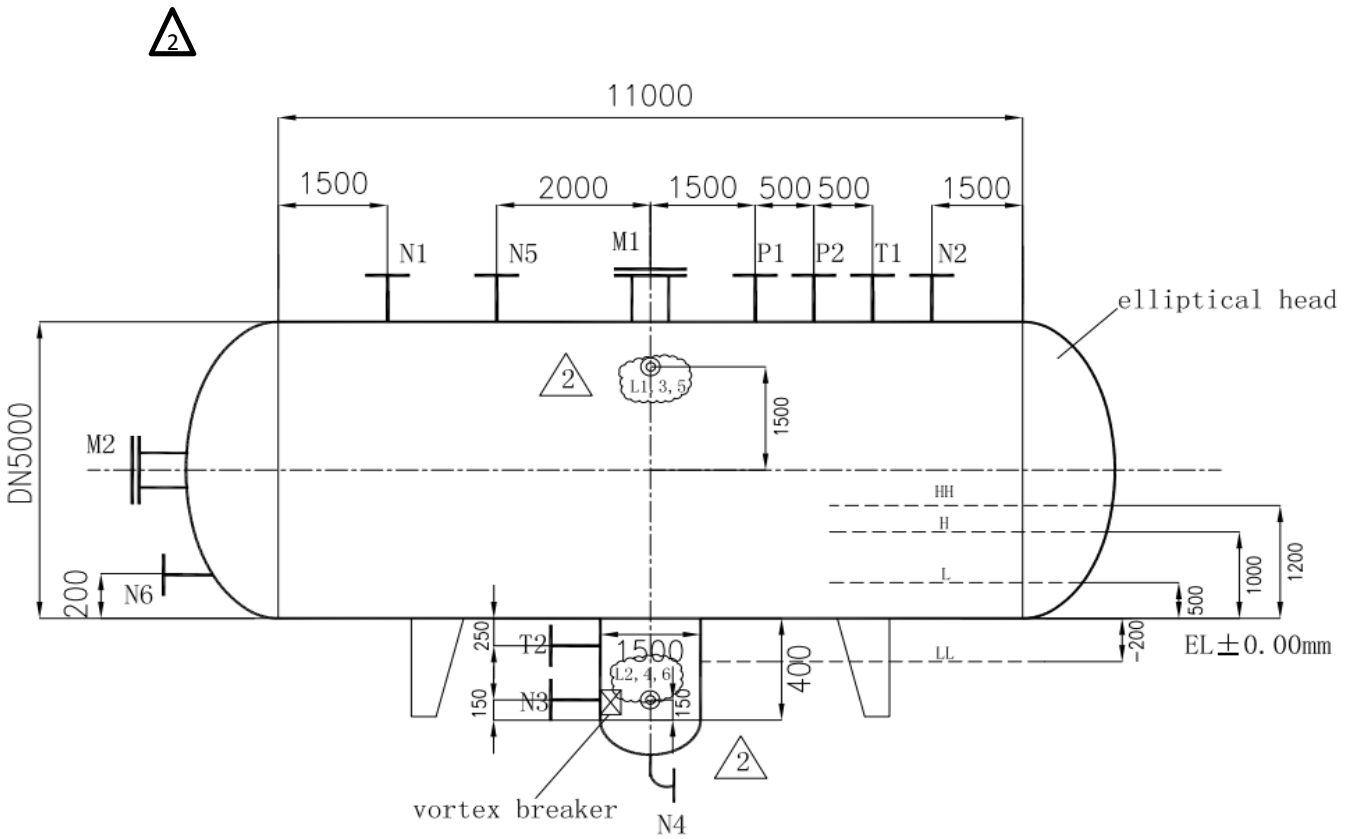
REV.	DATE	PURPOSE OF ISSUE	PREPARE	CHECK	REVIEW	APPROVE
2	2017.3.13	Final Issue	Chen Tao	Xu Hang	Shi Jing	
1	2016.12.28	Final Issue	Chen Tao	Xu Hang	Shi Jing	
0	2016.11.20	Final Issue	Chen Tao	Xu Hang	Shi Jing	



Contractor:  TIANCHEN CORP. CHINA	Project			MKP Methanol Project			Owner :		
	Unit			Flare	Phase	Detail Engineering			
	Doc. Title			Process Data Sheet for Flare KOD					 شرکت کیمیای پارس خاورمیانه Middle East Refining Para Co.
	Owner No.			MKP-11-DE-8500-PR-DSH-001					
	Contractor No.			MKP-11-DE-8500-PS11-DSH-031					
Licensor: HALDOR TOPSOE 	TOPSOE No.			N/A			Rev. : 2	Page : 3 of 4	

1	Item No.	D8511					P&ID No	MKP-11-DE-8500-PR-PID-003		
2	Name	Flare K.O. Drum					Code	ASME VIII-1		
3	Type	Horizontal					Diam.	mm	ID5000×L11000	
4	Fluid	Vent gas/Methanol	Qty	1		Volume	m <sup>3</sup>	248		
5	Nozzle data					Parameters				
6	No.	Inch	Description	Flange	Rated pre.	Face	Remarks	Design Pre.	bar(G)	5.5
7	N1	56"	gas inlet	ASME B16.47 series B	150lb	RF		Vacuum	bar(G)	
8	N2	64"	gas outlet	EN 1092-1	PN16	RF		Max. Oper. Pre.	bar(G)	3.5
9	N3	4"	condensate outlet	ASME B16.5	150lb	RF		Nor. Oper. Pre.	bar(G)	0
10	N4	2"	drain	ASME B16.5	150lb	RF		PSV Set Pre.	bar(G)	
11	N5	8"	spare	ASME B16.5	150lb	RF	blind flange	Pre. Drop	bar	
12	N6	2"	steam/N2 purge	ASME B16.5	150lb	RF	blind flange	Design Temp.	°C	410
13	L1~2	1 1/2"	LG	ASME B16.5	150lb	RF	Instrument set	Nor. Oper. Temp.	°C	5~52
14	L3~4	1 1/2"	LT	ASME B16.5	150lb	RF	Instrument set	Max. Oper. Temp.	°C	390
15	P1	1 1/2"	PG	ASME B16.5	150lb	RF	Instrument set	Min. design metal temp. @ determined pressure	°C	-10
16	P2	1 1/2"	PT	ASME B16.5	150lb	RF	Instrument set			
17	T1~2	2"	TG	ASME B16.5	150lb	RF	Instrument set	MW		13.15
18	M1~2	24"	man hole	ASME B16.5	150lb	RF		Density	kg/m <sup>3</sup>	6.82~990
19	L5~6	1 1/2"	LT 	ASME B16.5	150lb	RF	newly added	Materials		
20								Shell	CS	
21								Internal	CS	
22								Head type	elliptical / CS	
23								Radiograph (Yes/No)	Follow engineering drawing	
24								Fireproofing (Yes/No)	No	
25								Others		
26								Total weight	kg	
27								Corr. Allow.	mm	3
28								Insu.thick	mm	170
29								Insu. Type	Hot insulation	
30								Insu. Material	Aluminum silicate blanket	
31								External protective coating	Painting in accordance with MKP-11-BE-9000-PI-SPC-010	
32								Location	<input type="checkbox"/> Indoor	<input checked="" type="checkbox"/> Outdoor
33								Hazards area	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
34								Anti-vortex	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
35								Internal coil	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
36								Outr coil	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
37								Inert pro.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
38								Mixer	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
39								Fire prev.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
40	Remarks.									
41	1. All supplementary requirements will be in accordance with engineering drawing.									
42	2. Supplement of L5, L6 is based on the flare system HAZOP recommendation.									
43										
44										

Contractor:  <b>TIANCHEN CORP. CHINA</b>	Project	MKP Methanol Project			Owner :  شركة كيميائية باريس خاورميانه <i>Middle East Kinigya Para Co.</i>
	Unit	Flare	Phase	Detail Engineering	
	Doc. Title	Process Data Sheet for Flare KOD			
	Owner No.	MKP-11-DE-8500-PR-DSH-001			
	Contractor No.	MKP-11-DE-8500-PS11-DSH-031			
Licensor: <b>HALDOR TOPSOE</b> 	TOPSOE No.	N/A			Rev. : 2    Page : 4 of 4



HHL : 1200mm  
 HL : 1000mm  
 LL : 500mm  
 LLL : -200mm