


	<h2 style="margin: 0;">Piping list</h2> <h3 style="margin: 0;">Tank Farm Area</h3>	Diagram No.: 792.86811 Revision: As B. Date: 06.03.2006 Diagram state: As B.	Project: ASU KOSICE TF Project No.: K70101 List state: As B.
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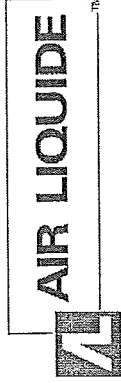
# COVER - SHEET

Processing					
Distribution		Date	Name	Checked by	Status
Name		Department			
H. Bonnier	Site	25.09.2004	Rüdiger	Chiran	Rev.0
H. Delattre	ALE	11.04.2005	Dziadek/IES	Gans	Rev0A
H. Dr. Nipper	IP.Z	20.05.2005	Reidenbach/IES	Gans	Rev.1
H. Dräger	IC.Z	22.06.2005	Honarassa	Gans	Rev1A
H. Eichler	IE.Z	14.07.2005	Dziadek/IES	Gans	Rev1B
H. Gans	IA.Z	26.08.2005	Dziadek/IES	Gans	Rev.2
H. Juckel	ALE	28.11.2005	Dziadek/IES	Gans	Rev.3
H. Korchi	ALE	09.03.2006	Dziadek/IES	Gans	As B.
H. Schürgers	IM.Z				
H. Siudak	IM.Z				

<b>Flexibility Test:</b> C = Calculation SM = Simplified methode PE = Professional experience	<b>Type of Insulation:</b> C = Low-temperature condensed water insulation CV = Low-temperature vacuum jacket EP = electric polished  G = pickled PP = contact protection S = sound protection W = heat protection WS = heat and sound protection	<b>Coating:</b> P = Primer B = Bitumised NC = None coating	<b>Category:</b> 3-3 = Goodengineering practice I = Category I II = Category II III = Category III
<b>WB</b> = heat and sound protection with electric foreign heating <b>WE</b> = heat protection with electric foreign heating <b>PE</b> = polyethylen jacket, corrosion protection			

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DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permissing Operating-		Test Medium	Test Press. (bar ti)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
								Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
80	EG	10001	AA10C1	40	TOP 13 Natural Gas	88,9	1.0254						-							
				40	D73101															
50	A	15019	AA10C1	025	50 A 81003 AA10C1	60,3	1.0254						-							
				025	Instrument Air Header															
25	A	15047	AA10C1	025	50 A 15019 AA10C1	33,7	1.0254						-							
				025	LIN-Tank															
25	A	15048	AA10C1	025	50 A 15019 AA10C1	33,7	1.0254						-							
				025	LOX Tank															
25	A	15049	AA10C1	025	50 A 15019 AA10C1	33,7	1.0254						-							
				025	Evaporator LOX															
25	A	15050	AA10C1	025	50 A 15019 AA10C1	33,7	1.0254						-							
				025	Evaporator LIN															
25	A	15051	AA10C1	025	50 A 15019 AA10C1	33,7	1.0254						-							
				025	E.G. Evaporator															
100	N	20005	AA64C1	010	HEX - box	114,3	1.0254	40	-40	N	44		-				2	I		
				010	TOP 3 HP GAN															
250	O	20006	ZB40C1	010	HEX - box	273	1.4541	40	15	N	48		-				1	III		
				010	TOP 1 HP GOX															
250	O	20007	ZB40C1	010	250 O 20006 ZB40C1	273	1.4541	40	15	N	48		-				1	III		
				010	TOP 1 HP GOX															
25	O	20008	MONEL40C1	010	250 O 20006 ZB40C1	33,7	Monel	40	15	N	48		-				1	-		
				010	250 O 20006 ZB40C1															
25	O	20009	MONEL40C1	010	250 O 20007 ZB40C1	33,7	Monel	40	15	N	48		-				1	-		
				010	250 O 20007 ZB40C1															



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List state: As B.

DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permissible Operating		Test Medium	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
								Press. (bar)	Temp. (°C)				Type	Thickn. (mm)	Weight (kg/m)				
50	N	20017	AA16C1	025	TOP 16	60,3	1.0254			N		-							
				025	80 N 81015 AA10C1														
15	N	20028	AA40C1	010	100 N 20005 AA64C1	21,3	1.0254	40	-40	N	44	-				2	-		
				015	LN PUMPS														
50	NL	23003	ZB16C1	035	B72001	60,3	1.4541	16	-191	N	17,6	-	C	110		2	-		
				035	50 NL 23005 ZB16C1CV														
50	NL	23005	ZB16C1	035	50 NL 23003 ZB16C1	60,3	1.4541	16	-191	N	17,6	-	CV			2	-		
				011	SUBCOOLER														
50	OL	61102	ZB10C1	032	B62001	60,3	1.4541	10	-177	N	12	-	C	110		1	I		
				032	50 OL 61102 ZB10C1CV														
50	OL	61102	ZB10C1	011	SUBCOOLER	60,3	1.4541	10	-177		12	-	CV			1	I		
				032	50 OL 61102 ZB10C1														
50	OL	61106	ZB10C1	032	TOP 5 LOX	60,3	1.4541	10	-177	N	12	-	CV			1	I		
				032	50 OL 61106 ZB10C1														
50	OL	61106	ZB10C1	032	50 OL 61106 ZB10C1CV	60,3	1.4541	10	-177	N	12	-	C	110		1	I		
				032	50 OL 61102 ZB10C1														
100	OL	62001	ZB10C1	032	H62270	114,3	1.4541	1,3	-182	N	1,56	-	C	140		1	I		
				033	P64101														
100	OL	62001	ZB10C1	032	Reducer DN150/100	114,3	1.4541	10	-182	N	12	-	CV			1	II		
				032	H62270														
150	OL	62001	ZB10C1	032	B62001	168,3	1.4541	10	-182	N	12	-				1	II		Insult. with Rockwool
				032	Reducer DN150/100														
100	OL	62002	ZB10C1	032	150 OL 62002 ZB10C1	114,3	1.4541	6	-182	N	7,2	-	C	140		1	I		
				032	P62001														
100	OL	62002	ZB10C1	032	Reducer DN150/100	114,3	1.4541	1,3	-182	N	1,56	-	CV			1	II		
				032	Reducer DN100/150														



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List state: As B.

DN	Piping		P & I Sheet	Piperouting		Pipe dimension (mm)	Material	max. permitting Operating-		Test Medium	Test Press. (bar ü)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility- test	Remarks
	Fluid	Piping No.	Piping classification	from...	to...			Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
150	OL	62002	ZB10C1	032	Reducer DN100/150	168,3	1.4541	1,3	-182	N	1,56	-	-	C	150		1	II		
150	OL	62002	ZB10C1	032	Reducer 150/80	168,3	1.4541	1,3	-182	N	1,56	-	-				1	II		Insult. with Rockwool
80	OL	62002	ZB10C1	032	B62001 Reducer DN100/150	88,9	1.4541	6	-182	N	7,2	-	-	C	120		1	I		
80	OL	62003	ZB10C1	032	150 OL 62002 ZB10C1 P63001	88,9	1.4541	10	-182	N	12	-	-				1	I		
50	OL	62004	ZB10C1	032	80 OL 62003 ZB10C1 B62001	60,3	1.4541	10	-182	N	12	-	-	PP	40		1	I		
100	OL	62005	ZB10C1	033	100 OL 62001 ZB10C1 P64201	114,3	1.4541	6	-182	N	7,2	-	-	C	140		1	I		
25	OL	62006	ZB10C1	032	B62001	33,7	1.4541	10	-182	N	12	-	-				1	-		
80	O	62007	ZB10C1	032	B62001	88,9	1.4541	2	-182	N	2,4	-	-				1	I		
80	O	62008	ZB10C1	032	B62001	88,9	1.4541	0	-182			-	-				1	-		no pressure apparat
100	O	62009	ZB10C1	032	Atmosphere	114,3	1.4541	0,2	-182		0,24	-	-	PP	80		1	-		no pressure apparat
50	OL	62011	ZB10C1	032	B62001	60,3	1.4541	0,5	-182		0,36	-	-				1	-		no pressure apparat
50	OL	63003	ZB10C1	032	B62001 (SV) Vent	60,3	1.4541	10	-182	N	12	-	-	C	110		1	I		LOX LGCC
50	OL	63004	ZB10C1	032	50 OL 61102 ZB10C1 50 OL 63003 ZB10C1 B62001	60,3	1.4541	10	-182	N	12	-	-	C	110		1	I		

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Druckdatum: 14. Mrz. 06

W=Wasserdruckprüfung, D=Dichtheitsprüfung, P=Druckprüfung

Piping list  
Tank Farm AreaDiagram No.: 792.86811  
Revision: As B.  
Date: 06.03.2006  
Diagram state: As B.Project: ASU KOSICE TF  
Project No.: K70101  
List state: As B.

DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permitting Operating-		Test Medium	Test Press. (bar ü)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
								Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
25	OL	64002	ZB40C1	034 034	80 OL 64101 ZB40C1 Drain	33,7	1.4541	40	-182	N	48	-	-				1	-		
50	OL	64004	ZB40C1	034 034	80 OL 64101 ZB40C1 W64001	60,3	1.4541	28	-182	N	32,4	-	-				1	II		
200	O	64005	ZB40C1	034 034	W64001 TE64051	219,1	1.4541	40	15	N	48	-	-	PP	40		1	III		
200	O	64005	ZB40C1	034 010	TE64051 250 O 20006 ZB40C1	219,1	1.4541	40	15	N	48	-	-				1	III		
25	O	64006	ZB40C2-Monel	034 034	200 O 64005 ZB40C1 200 O 64005 ZB40C1	33,7	Monel	40	15	N	48	-	-				1	-		
100	C	64007	AA10C1	034 034	W64001 B64090	114,3	1.0254	0	60			-	-				2	-		no pressure apparat
40	WI	64090	AA10C1	034 034	TOP Industrial Water B64090	48,3	1.0254	4	7			-	-	WB	50					
150	WI	64091	AA10C1	034 034	B64090 Drain	168,3	1.0254	0	60			-	-							
50	OL	64101	ZB40C1	033 033	P64101 Reduzierung DN 50/80	60,3	1.4541	40	-182	N	48	-	-	C	110		1	II		
80	OL	64101	ZB40C1	033 033	Reducer DN 50/80 80 OL 64201 ZB40C1	88,9	1.4541	40	-182	N	48	-	-	C	120		1	II		
80	OL	64101	ZB40C1	033 034	80 OL 64201 ZB40C1 50 OL 64004 ZB40C1	88,9	1.4541	40	-182	N	48	-	-	PP	100		1	II		
80	OL	64102	ZB40C1	033 032	80 OL 64101 ZB40C1 B62001	88,9	1.4541	40	-182	N	48	-	-	C	120		1	II		
50	OL	64201	ZB40C1	033 033	P64201 Reducer DN80/50	60,3	1.4541	40	-182	N	48	-	-	C	110		1	II		



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DN	Piping		P & I Sheet	Piperouting		Pipe dimension (mm)	Material	max. permissing Operating-		Test Medium	Test Press. (bar ti)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility- test	Remarks
	Fluid	Piping No.	Piping classification	from...	to...			Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
80	OL	64201	ZB40C1	Reducer DN80/50	80 OL 64101 ZB40C1	88,9	1.4541	40	-182	N	48	-	-	C	120		1	II		
80	OL	64202	ZB40C1	80 OL 64201 ZB40C1	B62001	88,9	1.4541	40	-182	N	48	-	-	C	120		1	II		
150	NL	72001	ZB10C1	80 NL 72001 ZB10C1	B72001	168,3	1.4541	10	-196	N	11	-	-	C	150		2	I		
80	NL	72001	ZB10C1	150 NL 72001 ZB10C1	P74101	88,9	1.4541	10	-196	N	11	-	-	C	120		2	-		
100	NL	72002	ZB10C1	150 NL 72002 ZB10C1	P73101	114,3	1.4541	10	-196	N	11	-	-	C	140		2	-		
150	NL	72002	ZB10C1	80 NL 72002 ZB10C1	B72001	168,3	1.4541	3	-196	N	3,3	-	-	C	150		2	-		
100	NL	72003	ZB10C1	100 NL 72002 ZB10C1	P73201	114,3	1.4541	10	-196	N	11	-	-	C	140		2	-		
50	NL	72003	ZB16C1	50 NL 73009 ZB25C1	B72001	60,3	1.4541	16	-196	N	17,6	-	-	C	110		2	-		
25	NL	72004	ZB10C1	80 NL 72001 ZB10C1	P74201	33,7	1.4541	10	-196	N	11	-	-				2	-		
80	NL	72004	ZB10C1	80 NL 72001 ZB10C1	B72001	88,9	1.4541	10	-196	N	11	-	-	C	120		2	-		
50	N	72005	ZB10C1	80 NL 72001 ZB10C1	B72001	60,3	1.4541	3	-196	N	3,3	-	-				2	-		
15	N	72008	ZB10C1	80 NL 72001 ZB10C1	Atmosphere	21,3	1.4541	0	-196			-	-				2	-		no pressure apparat
100	N	72009	ZB10C1	80 NL 72001 ZB10C1	Atmosphere	114,3	1.4541	0	0			-	-	PP	80		2	-		

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Druckdatum: 14. Mrz. 06

W=Wasserdrukprüfung, D=Dichtheitsprüfung, P=Druckprüfung

 <b>AIR LIQUIDE</b>		<b>Piping list</b> <b>Tank Farm Area</b>		Diagram No.: 792.86811 Revision: As B. Date: 06.03.2006 Diagram state: As B.		Project: ASU KOSICE TF Project No.: K70101 List state: As B.	
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DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting		Pipe dimension (mm)	Material	max. permissing Operating		Test Medium	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
					from...	to...			Press. (bar)	Temp. (°C)				Type	Thickn. (mm)	Weight (kg/m)				
50	NL	72011	ZB10C1	035		B72001	60,3	1.4541	0,5	-182	0,36						1			
				035		(SV) Vent														
100	NL	72101	ZB10C1	035		150 NL 72001 ZB10C1	114,3	1.4541	6	-196	6,6		-	C	140		2	-		
				035		P72001														
80	NL	72102	ZB10C1	035		P72001	88,9	1.4541	10	-196	11		-				2	-		
				035		Road tanker														
50	N	72103	ZB10C1	035		80 NL 72102 ZB10C1	60,3	1.4541	10	-196	11		-	PP	40		2	-		
				035		B72001														
80	NL	73001	ZB25C1	037		P73101/P73201	88,9	1.4541	25	-196	27,5		-	C	120		2	I		
				038		80 NL 73003 ZB25C1														
80	NL	73001	ZB25C1	038		80 NL 73003 ZB25C1	88,9	1.4541	25	-196	27,5		-	PP	80		2	I		
				040		W73101														
50	NL	73002	ZB25C1	038		80 NL 73001 ZB25C1	60,3	1.4541					-	C						
				038		B73001														
80	NL	73003	ZB25C1	038		80 NL 73001 ZB25C1	88,9	1.4541	25	-196	27,5		-	PP	80		2	I		
				039		W73001														
300	N	73004	ZB25C1	039		W73001	323,9	1.4541	25	-40	27,5		-	PP	40		2	III		
				039		300 N 73004 AA40C1														
300	N	73004	AA40C1	039		300 N 73004 ZB25C1	323,9	1.0254	25	-40	27,5		-				2	III		
				020		350 N 75005 AA40C1														
50	N	73004	ZB25C1	038		B73001	60,3	1.4541	15	-40	16,5		-				2	-		TV
				038		Ventil V73035														
25	N	73005	AA40C1	039		300 N 73004 ZB25C1	33,7	1.0254	25	-40	27,5		-				2	-		
				039		300 N 73004 AA40C1														
25	NL	73005	ZB25C1	039		80 NL 73003 ZB25C1	33,7	1.4541	25	-196	27,5		-				2	-		
				039		Drain														


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DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permissing Operating-		Test Medium	Test Press. (bar ü)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
								Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
40	NL	73005	ZB16C1	038	B73001	48,3	1.4541	10	-196	N	11	-	-	C	100		2	-		
100	C	73006	AA10C1	039	W73001	114,3	1.0254	0	60			-	-				2	-		no pressure apparat
50	NL	73007	ZB25C1	038	TOP 15	60,3	1.4541	16	-196	N	27,5	-	-	PP	100		2	I		
25	NL	73008	ZB40C1	038	B73001	33,7	1.4541	40	-196	N	44	-	-				2	-		
50	NL	73009	ZB25C1	038	80 NL 73001 ZB25C1	60,3	1.4541			N		-	-	C						
40	WI	73090	AA10C1	039	TOP Industrial Water	48,3	1.0254	4	7			-	-	WB	50					
150	WI	73091	AA10C1	039	B73090	168,3	1.0254	0	60			-	-							
80	NL	73101	ZB25C1	037	P 73101	88,9	1.4541	25	-196	N	27,5	-	-	C	120		2	I		pumpins. with Rockwool
80	NL	73102	ZB25C1	037	80 NL 73101 ZB25C1	88,9	1.4541	25	-196	N	27,5	-	-	C	120		2	I		
25	N	73105	AA40C1	040	300 N 73105 AA40C1	33,7	1.0254	25	-40	N	27,5	-	-				2	-		
300	N	73105	AA40C1	040	W73101	323,9	1.0254	25	-40	N	27,5	-	-	PP	40		2	III		
25	WI	73180	AA10C1	40	TOP Industrial Water	33,7	1.0254	4	7	W	10	-	-	WB	50					
80	NL	73201	ZB25C1	037	P73201	88,9	1.4541	25	-196	N	27,5	-	-	C	120		2	I		



	<h2 style="margin: 0;">Piping list</h2> <h3 style="margin: 0;">Tank Farm Area</h3>	<b>Diagram No.:</b> 792.86811 <b>Revision:</b> As B. <b>Date:</b> 06.03.2006 <b>Diagram state:</b> As B.	<b>Project:</b> ASU KOSICE TF <b>Project No.:</b> K70101 <b>List state:</b> As B.
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DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permitting Operating		Test Medium	Test Press. (bar ü)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
								Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
80	NL	73202	ZB25C1	037	80 NL 73201 ZB25C1	88,9	1.4541	25	-196	N	27,5		-	C	120		2	I		
				035	B72001															
100	NL	74090	ZB40C1	036	Evaporator	114,3	1.4541	40	-40	N	44		-				2	I		
				036	100 N 74090 AA40C1															
100	N	74090	AA40C1	036	100 NL 74090 ZB40C1	114,3	1.0254	40	-40	N	44		-				2	I		
				010	100 N 20005 AA64C1															
50	N	74095	AA40C1	036	100 N 74090 AA40C1	60,3	1.0254	21	-40	N	23,1		-				2	I		
				038	Ventil PV73015															
50	NL	74101	ZB40C1	036	P74101	60,3	1.4541	40	-196	N	44		-	C	110		2	I		
				036	Evaporator															
50	NL	74102	ZB40C1	036	50 NL 74101 ZB40C1	60,3	1.4541	40	-196	N	44		-	C	110		2	I		
				035	B72001															
40	NL	74180	ZB40C1	036	50 NL 74101 ZB40C1	48,3	1.4541	40	-196	N	44		-				2	I		
				036	W74101															
80	NL	74185	ZB40C1	036	W74101	88,9	1.4541	40	-196	N	44		-				2	I		
				036	100 NL 74090 ZB40C1															
50	NL	74201	ZB40C1	036	P74201	60,3	1.4541	40	-196	N	44		-	C	110		2	I		
				036	50 NL 74101 ZB40C1															
50	NL	74202	ZB40C1	036	50 NL 74201 ZB40C1	60,3	1.4541	40	-196	N	44		-	C	110		2	I		
				035	B72001															
40	NL	74280	ZB40C1	036	50 NL 74101 ZB40C1	48,3	1.4541	40	-196	N	44		-				2	I		
				036	W74201															
80	NL	74285	ZB40C1	036	W74201	88,9	1.4541	40	-196	N	44		-				2	I		
				036	100 NL 74090 ZB40C1															
40	NL	74380	ZB40C1	036	50 NL 74101 ZB40C1	48,3	1.4541	40	-196	N	44		-				2	I		
				036	W74301															



## Piping list Tank Farm Area

Diagram No.: 792.86811  
Revision: As B.  
Date: 06.03.2006  
Diagram state: As B.

Project: ASU KOSICE TF  
Project No.: K70101  
List state: As B.

Piping		P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permitting Operating		Test Medium	Test Press. (bar ü)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility- test	Remarks
DN	Fluid					Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
80	NL	74385	ZB40C1	036	W74301 100 NL 74090 ZB40C1	40	-196	N	44	-	-				2	I		
40	NL	74480	ZB40C1	036	50 NL 74101 ZB40C1 W74401	40	-196	N	44	-	-				2	I		
80	NL	74485	ZB40C1	036	W74401 100 NL 74090 ZB40C1	40	-196	N	44	-	-				2	I		
350	N	75005	AA40C1	020	N2 Compressor 2 TOP 2 MP GAN	25	-40	N	27,5	-	-				2	III		
50	NL	79103	ZB40C1	036	50 NL 74102 ZB40C1 50 NL 74102 ZB40C1			N		-	-							
50	NL	79203	ZB40C1	036	50 NL 74202 ZB40C1 50 NL 74202 ZB40C1			N		-	-							
80	N	81001	AA16C1	020	350 N 75005 AA40C1 80 N 81015 AA10C1	6	-25	N	6,6	-	-				2	-		
80	N	81002	AA10C1	025	80 N 81015 AA10C1 Instrument Air Header					-	-							
50	A	81003	AA10C1	025	TOP 9 Instrument Air Header			N		-	-							
50	N	81004	AA10C1	025	80 N 81015 AA10C1 Box Purge	6	-25	N	6,6	-	-				2	-		
15	N	81005	AA10C1	024	25 N 81031 AA10C1 P63001	0,4	-25	N	0,44	-	-				2	-		
15	N	81011	AA10C1	025	25 N 81031 Seal gas Box P73101	6	-25	N	6,6	-	-				2	-		
15	N	81012	AA10C1	036	15 N 87014 AA10C1 P74201	0,4	-25	N	0,44	-	-				2	-		

Projekt-Ablage: P:\ABTEIL\AGS01\PROJEKTE\K70101 ASU No9 KOSICE\Dokumente\Listen

Formular-Ablage: P:\ABTEIL\AGS01\PROJEKTE\K70101 ASU No9 KOSICE\Dokumente\Listen\Formu

Druckdatum: 14. Mrz. 06

W=Wasserdrukprüfung, D=Dichtheitsprüfung, P=Druckprüfung




## Piping list Tank Farm Area

Diagram No.: 792.86811  
Revision: As B.  
Date: 06.03.2006  
Diagram state: As B.

Project: ASU KOSICE TF  
Project No.: K70101  
List state: As B.

DN	Piping		P & I Sheet	Piperouting		Pipe dimension (mm)	Material	max. permissible Operating		Test Medium	Test Press. (bar ü)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
	Fluid	Piping No.	Piping classification	from...	to...			Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
15	N	81013	AA10C1	037	15 N 81011 AA10C1 Seal Gas Box P73201	21,3	1.0254	6	-25	N	6,6	-	-				2	-		
80	N	81015	AA10C1	025	80 N 81001 AA16C1 GAN Seal Gas Header	88,9	1.0254	6	-25	N	6,6	-	-				2	-		
25	O	81020	ZB40C1	10	250 O 20006 ZB40C1 GOX Seal Gas Header	33,7	1.4541	10	-25	N	12	-	-				1	-		
15	O	81023	ZB10C1	025	25 O 81020 ZB40C1	21,3	1.4541	10	-25	N	12	-	-				1	-		
15	O	81024	ZB10C1	033	15 O 81023 ZB10C1 P64101	21,3	1.4541	10	-25	N	12	-	-				1	-		
15	O	81029	ZB10C1	025	25 O 81020 ZB40C1 P62001/P63001	21,3	1.4541	10	-25	N	12	-	-				1	-		
25	N	81031	AA10C1	025	80 N 81002 AA10C1 Instrument Air Header	33,7	1.0254					-	-							
200	S	84001	BA25C1	031	TOP 11 Steam Steam Header	219,1	St35.8	20	310	W	42	-	-	W	80		2	II		
150	S	84005	BA25C1	031	200 S 84001 BA25C1 W64001	168,3	St35.8	20	310	W	42	-	-	W	80		2	I		
150	S	84006	BA25C1	031	200 S 84001 BA25C1 W73001	168,3	St35.8	20	310	W	42	-	-	W	80		2	I		
25	S	84016	BA25C1	031	200 S 84001 BA25C1 Drain	33,7	St35.8	20	310	W	42	-	-	W	60		2	-		
25	S	84017	BA25C1	031	25 S 84016 BA25C1 Drain	33,7	St35.8	20	310	W	42	-	-	W	60		2	-		
25	S	84022	BA25C1	034	150 S 84005 BA25C1 V64003	33,7	St35.8	20	310	W	42	-	-	W	60		2	-		

 <b>AIR LIQUIDE</b>	<b>Piping list</b> <b>Tank Farm Area</b>		Diagram No.: 792.86811 Revision: As B. Date: 06.03.2006 Diagram state: As B.	Project: ASU KOSICE TF Project No.: K70101 List state: As B.

DN	Fluid	Piping No.	Piping classification	P & I Sheet	Piperouting from... to...	Pipe dimension (mm)	Material	max. permissing Operating-		Test Medium	Test Press. (bar ti)	Coating	Heat Tracing	Insulation			Fluidgroup	Category n. 97/23/EG	Flexibility-test	Remarks
								Press. (bar)	Temp. (°C)					Type	Thickn. (mm)	Weight (kg/m)				
25	S	84023	BA25C1	034	25 S 84022 BA25C1	33,7	SI35.8	20	310	W	42	-	-	W	60		2	-		
25	S	84024	AA10C1	034	25 S 84024 AA10C1	33,7	SI35.8	20	310	W	42	-	-	W	60		2	-		
25	S	84026	BA25C1	039	V64093 100 C 64007 AA10C1	33,7	SI35.8	20	310	W	42	-	-	W	60		2	-		
25	S	84027	BA25C1	039	150 S 84006 BA25C1 V73093	33,7	SI35.8	20	310	W	42	-	-	W	60		2	-		
25	S	84028	AA10C1	039	25 S 84026 BA25C1 25 S 84028 AA10C1	33,7	1.0254	20	310	W	42	-	-	W	60		2	-		
25	N	87011	AA10C1	025	V73094 100 C 73006 AA10C1	33,7	1.0254	0,4	-25	N	0,44	-	-				2	-		
25	N	87013	AA10C1	035	25 N 87013 AA10C1 B62001	33,7	1.0254	0,4	-25	N	0,44	-	-				2	-		
15	N	87014	AA10C1	036	80 N 81015 AA10C1 B72001 25 N 87013 AA10C1 P72001/P74101	21,3	1.0254	0,4	-25	N	0,44	-	-				2	-		