TAG-NO. / FUNCTION	DESIG-NATION	RANGE	LL S/A	LL loc	LL prio	LL threshold	L S/A	L loc	L prio	L threshold	H S/A	H loc	H prio	H threshold	HH S/A	HH loc	HH prio	HH threshold	CONTROLLER SETTINGS W	Kp	Tn	Td	P&I SHEET	REMARKS
E 73101 / EI	CURRENT LIN PUMP P73101	0...100 A																					037	
E 73201 / EI	CURRENT LIN PUMP P73201	0...100 A																					037	
F 20001 / FIC	HP-GAN OUTLET COLDBOX	0...4500 Nm³/h																					010	K1 = 365,842 P1 = 21 bar T1 = 20°C
F 20003 / FI	HP-GAN TO CUSTOMER	0...4500 Nm³/h																					010	K1 = 372,461 P1 = 21 bar T1 = 20°C
F 20005 / FIC	LP-GAN OUTLET COLDBOX	0...35000 Nm³/h																					010	K1 = 8551,861 P1 = 1,15 T1 = 20°C
F 20011 / FIC	GOX OUTLET COLDBOX	0...35000 Nm³/h																					010	K1 = 2206,150 P1 = 28 bar T1 = 20°C
F 20013 / FI	GOX TO CUSTOMER	0...35000 Nm³/h																					010	K1 = 2206,150 P1 = 28 bar T1 = 20°C

Legend: F = local, V = local cabinet , S = control room, PCS = process control system

Annotation on column "Hook Up":
(FP*) = Frost Protection recommended

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			threshold			threshold			threshold			threshold								
F 62030 / FI	PURGEGAS LOX TANK B62001	Nm³/h																	032	local indicator
F 63033 / FI	LOX CONVERTER CYCLE	0...6000 Nm³/h																	032	K1 = 306,586 P1 = 4,5 bar T1 = -181,8°C
F 70041 / FIC	MP-GAN TO CUSTOMER	0...35000 Nm³/h																	020	K1 = 2857,738 P1 = 7,3 bar T1 = 26°C
F 72030 / FI	PURGEGAS LIN TANK B72001	Nm³/h																	035	local indicator
F 72071 / FI	PURGE GAS P72001	Nm³/h																	035	local indicator
G 77010 / GISOL	GUIDE VANE GAN COMPR. 2	0...100 %																	020	
H 20013 / HIC	PRESSURISATI ON GOX TO CUSTOMER 1	0...100 %																	010	

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			threshold			threshold			threshold			threshold								
H 20014 / HIC	PRESSURISATI ON GOX TO CUSTOMER 2	0...100 %																	010	
H 73101 / HIC	SPEED LIN BACK UP PUMP P73101	0...100 %																	037	
H 73201 / HIC	SPEED LIN BACK UP PUMP P73201	0...100 %																	037	
H 77035 / HIC	BLOW OUT VALVE GAN COMP. 2	0...100 %																	020	
H 77036 / HIC	CHARGE GAN COMP. 2	0...100 %																	020	
L 44007 / LI	LP LAR TANK 1 B44101	0...100 %																	041	
L 44105 / LIAHLSAHHLL	LP LAR TANK 1 B44101	0...100 %	SA	PCS	1	A	PCS	3	A	PCS	3	SA	PCS	1					041	
			10			20			80			90								

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L 44205 / LIAHLSAHHLL	LP LAR TANK 2 B44201	0...100 %	SA	PCS	1	10	A	PCS	3	20	A	PCS	3	80	SA	PCS	1	90					042	
L 44207 / LI	LP LAR TANK 2 B44201	0...100 %																					042	
L 48015 / LI	HP LAR TANK B48001	0...100 %																					044	
L 48020 / LIAHLSAHHLL	HP LAR TANK B48001	0...100 %	SA	PCS	1	10	A	PCS	3	20	A	PCS	3	80	SA	PCS	1	90					044	
L 62005 / LIAHLZAHHSALL	LOX TANK B62001	0...100 %	SA	PCS		3	A	PCS		5	A	PCS		95	ZA	S		97,5					032	
L 62006 / LZAHH	OVERFLOW LOX TANK BL62001	94,37...100 %												95	ZA	S		98					032	
L 64030 / LZAL	WATER BATH VAPORIZER GOX	mm																					034	

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L 72005 / LIAHLZAHHSALL	LIN TANK B72001	0...100 %	SA	PCS	1	3	A	PCS	3	5	A	PCS	3	95	ZA	S	1	97,5					035	
L 72006 / LZAHH	OVERFLOW LIN TANK B72001	93,6...100 %												95	ZA	S	1	98					035	
L 73002 / LI	MP LIN TANK B73001	0...100 %																					038	Local indicator
L 73007 / LIAHLSHH	MP LIN TANK B73001	0...100 %	SA	PCS	1	10	A	PCS	3	50	A	PCS	3	75	SA	PCS	1	80					038	
L 73030 / LZAL	WATER BATH VAPORIZER GAN	mm																					039	
L 73130 / LSAH	WATER BATH NAT. GAS VAP.	mm																					040	
L 73131 / LZAL	WATER BATH NAT. GAS VAP.	mm																					040	

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L 73132 / LZALL	WATER BATH NAT. GAS VAP.	mm																					040	
P 20001 / PICAHL	HP-GAN OUTLET COLDBOX	0...30 bar					A	PCS	3	18	A	PCS	3	22									010	
P 20003 / PI	HP-GAN TO CUSTOMER	0...30 bar																					010	
P 20005 / PICAL	LP-GAN OUTLET COLDBOX	0...250 mbar					A	PCS	3	50													010	
P 20011 / PICAHL	GOX OUTLET COLDBOX	0...40 bar					A	PCS	3	25	A	PCS	3	29									010	
P 20013 / PI	GOX TO CUSTOMER	0...40 bar																					010	
P 20015 / PI	GOX TO CUSTOMER 1	0...40 bar																					010	

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P 20016 / PI	GOX TO CUSTOMER 2	0...40 bar																					010	
P 44057 / PI	END PRESSURE P44001	0...10 bar																					042	local indicator
P 44072 / PI	PURGE GAS TO P44001	0...6 bar																					042	local indicator
P 44105 / PICAHLSAHHLL	LP LAR TANK 1 B44001	0...6 bar	SA	PCS	1	0,2	A	PCS	3	0,3	A	PCS	3	4	SA	PCS	1	4,5					041	
P 44106 / PSH	LP LAR TANK 1 B44001	0...6 bar																					041	
P 44107 / PI	LP LAR TANK 1 B44001	0...6 bar	-	F	-	0,2 bar	-	F	-	0,3 bar	-	F	-	4 bar	-	F	-	4,5 bar					041	local indicator
P 44205 / PICAHSAHHLL	LP LAR TANK 2 B44201	0...6 bar	SA	PCS	1	0,2	A	PCS	3	0,3	A	PCS	3	4	SA	PCS	1	4,5					042	

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P 44206 / PSH	LP LAR TANK 2 B44201	0...6 bar									S	PCS	4										042	
P 44207 / PI	LP LAR TANK 2 B44201	0...6 bar	-	F	-	0,2 bar	-	F	-	0,3 bar	-	F	-	4 bar	-	F	-	4,5 bar					042	local indicator
P 48004 / PSAH	HP LAR TANK B48001	0...40 bar									SA	S	1										044	
P 48005 / PICAHSAHHLL	HP LAR TANK B48001	0...40 bar	SA	PCS	1	0,2	A	PCS	3	0,3	A	PCS	3	30	SA	PCS	1	35					044	
P 48015 / PI	HP LAR TANK B48001	0...60 bar	-	F	-	0,2 bar	-	F	-	0,3 bar	-	F	-	30 bar	-	F	-	35 bar					044	local indicator
P 48050 / PIAHSAHH	END PRESSURE LAR PUMP P48001	0...40 bar									A	PCS	3	30	SA	PCS	1	35					043	
P 48080 / PIC	SEAL GAS P48001	bar																					043	

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P 49020 / PICAL	HP-GAR TO CUSTOMER	0...40 bar					A	PCS	3														044	
P 49021 / PI	HP-GAR DISCHARGE EVAPORIZERS	0...40 bar																					044	local indicator
P 62005 / PICAHLSAHH	LOX TANK B62001 BLOW OUT	-10...+250 mbar	A	PCS		5	A	PCS		10	A	PCS		160	SA	PCS		180	50	4	45s		032	PIC62004, SP=30, KP=1, Tn=30s
P 62006 / PSAHH	LOX TANK BL62001	0...400 mbar													SA	F		180					032	
P 62011 / PI	END PRESSURE LOX PUMP P62001	0...10 bar					-	F	-	4 bar													032	local indicator
P 62012 / PISAL	END PRESSURE LOX PUMP P62001	0...10 bar					SA	PCS		4													032	
P 62032 / PI	TANK SHELL B62001	0...25 mbar																					032	local indicator

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P 62170 / PI	O2 SEAL GAS P62001	0...0,6 bar																					032	local indicator
P 62171 / PIC	O2 SEAL GAS P62001	bar																					032	
P 63033 / PIC	END PRESSURE LOX PUMP P63001	0...6 bar																					032	
P 64050 / PICAHSAHH	GOX BEHIND WATER BATH VAPORIZER	0...40 bar									A	PCS	3	30	A	PCS	1	38	25	0,7	30s		034	
P 64080 / PIALSALL	STEAM TO WATER BAD VAPORIZER GOX	0...25 bar	SA	PCS	1	7	A	PCS	3	10													034	
P 64081 / PI	STEAM TO W64001	0...25 bar																					034	local indicator
P 64101 / PI	LOX TO P64101	0...6 bar																					033	local indicator

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P 64150 / PICAHLAHH	END PRESSURE LOX PUMP P64101	0...40 bar	SA	PCS	1	20	A	PCS	3	25	A	PCS	3	32	A	PCS	1	35	29	0,7	15s		033	
P 64170 / PI	O2 SEAL GAS P64101	bar																					033	local indicator
P 64171 / PIC	O2 SEAL GAS P64101	bar																					033	
P 64201 / PI	LOX TO P64201	0...6 bar																					033	local indicator
P 64250 / PICAHLAHH	END PRESSURE LOX PUMP P64201	0...40 bar					A	PCS	3	25	A	PCS	3	32	A	PCS	1	35	29	0,7	15s		033	
P 64270 / PI	O2 SEAL GAS P64201	bar																					033	local indicator
P 64271 / PIC	O2 SEAL GAS P64201	bar																					033	

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P 70041 / PICAH	MP-GAN TO CUSTOMER	0...10 bar									A	PCS	3										020	
P 72005 / PICAHSAHH	LIN TANK B72001 BLOW OUT	-10...+250 mbar	A	PCS	1	5	A	PCS	3	10	A	PCS	3	160	S	PCS	1	180	50	4	30s		035	
P 72006 / PSAHH	LIN TANK B72001	0...400 mbar													S	F	1	180					035	
P 72011 / PI	END PRESSURE LIN PUMP P72001	0...10 bar					-	F	-	4													035	local indicator
P 72012 / PISAL	END PRESSURE LIN PUMP P72001	0...10 bar					SA	PCS	3	4													035	
P 72032 / PI	TANK SHELL B72001	0...15 mbar																					035	local indicator
P 73002 / PISAL	REFILL GAN RESERVOIR	0...25 bar					SA	PCS	1	10,5													038	

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			threshold			threshold			threshold			threshold								
P 73002	MP LIN TANK B73001	0...25 bar				-	F	-	-	F	-	-	F	-					038	local indicator
PI						9			13			14								
P 73006	MP LIN TANK B73001	0...25 bar							SA	F	3								038	
PSAH									14											
P 73007	HP-GAN RESERVOIR B73002	0...25 bar				S	PCS	3	S	PCS	3								038	
PISAHL						11			20											
P 73009	HP-GAN RESERVOIR B73002	0...25 bar				-	F	-	-	F	-								038	local indicator
PI						11			20											
P 73015	MP LIN TANK B73001	0...25 bar				A	PCS	3	A	PCS	3	SA	PCS	1	7,5	2	45s		038	PIC73005, w=9,5, Kp=2, Tn=20s
PICAHSAHH						7			13			14								
P 73050	GAN BEHIND WATER BATH VAPORIZER	0...25 bar							A	H	3				5,8	1,9	30s		039	
PICAH									10											
P 73080	STEAM TO WATER BATH VAPORIZER GAN	0...25 bar	SA	PCS	1	A	PCS	3											039	
PIALSALL			7			11														

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			threshold			threshold			threshold			threshold								
P 73081 / PI	STEAM TO WATER BATH VAPORIZER GAN	0...25 bar																	039	local indicator
P 73101 / PI	LIN TO P73101	0...6 bar																	037	local indicator
P 73150 / PICAHLSAHHLL	END PRESSURE LIN PUMP P73101	0...25 bar	SA	PCS	1	A	PCS	3	A	PCS	3	SA	PCS	1	25	1,5	20s		037	
			4			6			8			15								
P 73158 / PICAHSAHH	GAN BEHIND W73101	0...25 bar							A	PCS	3	SA	PCS	1	5,8	2,5	30s		040	
									6			7								
P 73201 / PI	LIN TO P73201	0...6 bar																	037	local indicator
P 73250 / PICAHLSAHHLL	END PRESSURE LIN PUMP P73201	0...25 bar	SA	PCS	1	A	PCS	3	A	PCS	3	SA	PCS	1	25	3	20s		037	
			4			6			8			15								
P 74090 / PICSAHL	OUTLET PRESSURE HP-GAN	0...40 bar				A	PCS	3	A	PCS	3				15	3,5	25s		036	
						10,5			27											

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1	15.02.2005	Frohn		Rev. P0
0	21.12.2004	Frohn		Initial version

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MEASURING RANGE & LIMIT VALUES

AIR LIQUIDE

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TAG-NO. / FUNCTION	DESIG-NATION	RANGE	LL S/A	LL loc	LL prio	LL threshold	L S/A	L loc	L prio	L threshold	H S/A	H loc	H prio	H threshold	HH S/A	HH loc	HH prio	HH threshold	CONTROLLER SETTINGS W	Kp	Tn	Td	P&I SHEET	REMARKS
P 74101 / PI	LIN TO P74101	0...6 bar																					036	local indicator
P 74150 / PICAHLSAHH	END PRESSURE LIN PUMP P74101	0...40 bar	SA	PCS	1	10	A	PCS	3	20	A	PCS	3	24	SA	PCS	1	25	22	1	30s		036	
P 74170 / PI	N2 SEAL GAS P74101	bar																					036	local indicator
P 74171 / PIC	N2 SEAL GAS P74101	bar																					036	
P 74201 / PI	LIN TO P74201	0...6 bar																					036	local indicator
P 74250 / PIAHLSAHH	END PRESSURE LIN PUMP P74201	0...40 bar	SA	PCS	1	10	A	PCS	3	20	A	PCS	3	24	SA	PCS	1	25	22	1	30s		036	
P 74270 / PI	N2 SEAL GAS P74201	bar																					036	local indicator

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P 74271 / PIC	N2 SEAL GAS P74201	bar																					036	
P 77001 / PIAL	INLET GAN COMPRESSOR 2	0...250 mbar					A	PCS	3	50													020	
P 77007 / PIAHSAHH	INLET GAN COMPRESSOR 2	0...2 bar									A	PCS	3	1,05	SA	PCS	1	1,1					020	
P 77015 / PI	GAN BEH. COOLER 1ST STAGE	bar																					020	
P 77025 / PI	GAN BEH. COOLER 2ND STAGE	bar																					020	
P 77031 / PISAHSAHH	GAN BEH. 3RD STAGE	bar																					020	
P 77035 / PI	GAN BEH. COOLER 3RD STAGE	bar																					020	

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P 77036 / PI	GAN DISCHARGE GAN COMPR. 2	bar																					020	
P 81010 / PIAL	PURGE GAS HEADER	0...10 bar					A	PCS	3	4													025	
P 82010 / PIAL	INSTRUMENT GAS HEADER	0...10 bar					A	PCS	3	4													025	
P 82022 / PI	GAN TO INSTRUMENT AIR	0...6 bar					-	F	-	3,5													025	local indicator
P 84010 / PIAHL	STEAM FROM CUSTOMER	0...25 bar					A	PCS	3	7	A	PCS	3	20									031	
PD 20012 / PDI	GOX BARRIER K20012	0...40 bar																					010	local indicator
PD 20015 / PDSH	DIFF.-PRESSURE UK20013	0-40 bar									S	F	3	2									010	

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PD 20016 / PDSH	DIFF.-PRESSURE UK20014	0-40 bar									S	PCS	3	2									010	
Q 20001 / QIAHSAHH	PPM O2 IN HP-GAN OUTLET COLDBOX	0...10 ppm									A	PCS	3	5	SA	PCS	1	10					010	
Q 20001_2 / QIAHSAHH	PPM O2 IN HP-GAN OUTLET COLDBOX	0...1000 ppm									A	PCS	3	5	SA	PCS	1	10					010	
Q 20005 / QIAHSAHH	PPM O2 IN LP-GAN OUTLET COLDBOX	0...10 ppm									A	PCS	3	5	SA	PCS	1	10					010	
Q 20005_2 / QIAHSAHH	PPM O2 IN LP-GAN OUTLET COLDBOX	0...1000 ppm									A	PCS	3	5	SA	PCS	1	10					010	
Q 20011 / QIALSALL	% O2 IN GOX OUTLET COLDBOX	99...100 %	SA	PCS	1	99,5	A	PCS	3	99,6													010	
Q 20011_2 / QIALSALL	% O2 IN GOX OUTLET COLDBOX	0...100 %	SA	PCS	1	99,5	S	PCS	3	99,6													010	

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Q 20012 / QIAHSAHH	PPM N2 IN GOX OUTLET COLDBOX	0...10 ppm									A	PCS	3	0,5	SA	PCS	1	1					010	
Q 20012_2 / QIAHSAHH	PPM N2 IN GOX OUTLET COLDBOX	0...1000 ppm									A	PCS	3	0,5	SA	PCS	1	1					010	
Q 64051 / QIALSLL	% O2 IN GOX OUTLET W64001	99...100 %	S	PCS	1	99,5	A	PCS	3	99,6													034	
Q 64051_2 / QI	% O2 IN GOX OUTLET W64001	0...100 %																					034	
Q 74090 / QIAHSAHH	PPM O2 IN MP GAN	0...10 ppm									A	PCS	3	3	A	PCS	1	5					036	
Q 74090_2 / QI	PPM O2 IN MP GAN	0...1000 ppm																					036	
S 73101 / SISL	SPEED LIN BACKUP PUMP P73100	0...84 Hz					S	PCS	4	64													037	

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S 73201 / SISL	SPEED LIN BACKUP PUMP P73200	0...84 HZ					S	PCS	4	64													037	
T 20001 / TIALSLL	HP-GAN OUTLET COLDBOX	-50...+50 °C	SA	PCS	1	-10	A	PCS	3	10													010	
T 20003 / TI	HP-GAN TO CUSTOMER	-20...+40 °C																					010	
T 20005 / TIALSALL	LP-GAN OUTLET COLDBOX	-50...+50 °C	SA	PCS	1	-10	A	PCS	3	10													010	
T 20011 / TIALSALL	GOX OUTLET COLDBOX	-50...+50 °C	SA	PCS	1	-10	A	PCS	3	10													010	
T 20013 / TI	GOX TO CUSTOMER	-20...+40 °C																					010	
T 44104 / TISAL	OVERFLOW LP LAR TANK 1 B44101	-200...+50 °C					SA	PCS	1	-20													041	

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T 44204 / TISAL	OVERFLOW LP LAR TANK 2 B44201	-200...+50 °C					SA	PCS	1	-20													042	
T 48004 / TISAL	OVERFLOW HP LAR TANK B48001	-200...+50 °C					SA	PCS	1	-20													044	
T 48050 / TISLAH	COOL DOWN TEMP. P48001	-200...+50 °C					S	PCS	4	-150													043	
T 49020 / TICALZALL	HP-GAR DISCHARGE EVAPORIZERS	-40...+60 °C	ZA	S	1	-40	A	PCS	3	-20													044	
T 49021 / TIALZLL	HP-GAR DISCHARGE EVAPORIZERS	-40...+60 °C	ZA	S	1	-40	A	PCS	3	-20													044	
T 62001 / TISL	COOLING DOWN TEMP. P62001	-200...+50 °C					S	PCS	4	-130													032	
T 62022 / TALZALL	OVERFLOW PIPE LOX TANK B62001	-200...+50 °C	ZA	S	1	-40	A	PCS	3	-30													032	

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T 63001 / TISL	COOL DOWN TEMP. P63001	-200...+50 °C					S	PCS	4	-150													032	
T 64030 / TI	LOX WATER BATH VAPORIZER	0...100 °C																					034	local indicator
T 64031 / TICSAHL	WATER BATH VAPORIZER GOX	0...100 °C					SA	PCS	3	10	A	PCS	3	80					40/60				034	
T 64032 / TISAHL	WATER BATH VAPORIZER GOX	0...100 °C					SA	PCS	3	10	A	PCS	3	50									034	
T 64050 / TIALZALL	GOX BEHIND WATER BAD VAPORIZER	-40...+60 °C	ZA	S	1	-10	A	PCS	3	-5													034	
T 64051 / TIALZALL	GOX BEHIND WATER BAD VAPORIZER	-40...+60 °C	ZA	S	1	-10	A	PCS	3	-5													034	
T 64130 / TISLAH	COOL DOWN TEMP. P64101	-200...+50 °C					SA	PCS	4	-115	A	PCS	3	50									033	

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T 64140 / TIALSALL	SEAL LEAKAGE LOX PUMP P64101	-200...+100 °C	S	PCS	1	-180	A	PCS	3	-160													033	
T 64141 / TIALSALL	SEAL LEAKAGE LOX PUMP P64101	-200...+50 °C	SA	PCS	1	-180	A	PCS	3	-160													033	
T 64230 / TISLAH	COOL DOWN TEMP. P64201	-200...+50 °C					SA	PCS	4	-115													033	
T 64240 / TIALSALL	SEAL LEAKAGE LOX PUMP P64201	-200...+50 °C	S	PCS	1	-180	A	PCS	3	-160													033	
T 64241 / TIALSALL	SEAL LEAKAGE LOX PUMP P64201	-200...+50 °C	SA	PCS	1	-180	A	PCS	3	-160													033	
T 70041 / TIAL	MP-GAN TO CUSTOMER	-20...+40 °C					A	PCS	3														020	
T 72001 / TISL	COOLING DOWN TEMP. P72101	-200...+50 °C					S	PCS	4	-150													035	

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T 72022 / TALZALL	OVERFLOW PIPE LIN TANK B72001	-200...+50 °C	ZA	S	1	-40	A	PCS	3	-30													035	
T 73005 / TIALSAL	OVERFLOW MP LIN TANK BL73001	-200...+50 °C	SA	PCS	1	-190	A	PCS	3	-150													038	
T 73031 / TICSAHL	WATER BATH VAPORIZER GAN	0...100 °C					SA	PCS	3	10	A	PCS	1	80					40/60	0,6	2min 45s		039	
T 73032 / TISAHL	WATER BATH VAPORIZER GAN	0...100 °C					SA	PCS	1	10	A	PCS	3	50									039	TIC73051, W=0°C, Kp=3, Tn=20s
T 73051 / TIALZALL	GAN BEHIND WATER BATH VAPORIZER	-40...+60 °C	ZA	S	1	-30	A	PCS	3	-5													039	
T 73057 / TIALZALL	GAN BEHIND WATER BATH VAPORIZER	-40...+60 °C	ZA	S	1	-30	A	PCS	3	-5													039	
T 73130 / TISLAH	COOL DOWN TEMP. P73101	-200...+50 °C					S	PCS	4	-130	A	PCS	3	50									037	

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T 73131 / TSL	WATER BATH NAT. GAS VAP. LIN	°C																					040	
T 73132 / TSL	WATER BATH NAT. GAS VAP. LIN	°C																					040	
T 73133 / TSL	WATER BATH NAT. GAS VAP. LIN	°C																					040	
T 73134 / TI	WATER BATH NAT. GAS VAP. LIN	0...100 °C																					040	
T 73135 / TI	WATER BATH NAT. GAS VAP. LIN	0...100 °C																					040	local indicator
T 73140 / TIALSALL	SEAL LECKAGE LIN BACK UP PUMP P73101	-200...+50 °C	SA	PCS	1	-150	A	PCS	3	-130													037	
T 73141 / TIALSALL	SEAL LEAKAGE LIN BACK UP PUMP P73101	-200...+50 °C	SA	PCS	1	-150	A	PCS	3	-130													037	

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T 73151 / TIALZALL	GAN BEHIND W73101	°C	ZA	S		-10	A	PCS															040	
T 73157 / TIALZALL	GAN BEHIND W73101	°C	ZA	S		-10	A	PCS															040	
T 73230 / TISLAH	COOL DOWN TEMP. P73201	-200...+50 °C					S	PCS	4	-150	A	PCS	3	50									037	
T 73240 / TIALSALL	SEAL LEACKAGE LIN BACK UP PUMP P73102	-200...+50 °C	SA	PCS	1	-150	A	PCS	3	-130													037	
T 73241 / TIALSALL	SEAL LEACKAGE LIN BACK UP PUMP P73201	-200...+50 °C	SA	PCS	1	-150	A	PCS	3	-130													037	
T 74090 / TIALZALL	GAN BEHIND AIR EVAPORATOR S	-40...+60 °C	ZA	S	1	-40	A	PCS	3	-35													036	
T 74095 / TICALZALL	GAN BEHIND AIR EVAPORATOR S	-40...+60 °C	ZA	S	1	-40	A	PCS	3	-35									-2.0	1	30s		036	

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T 74130 / TISLAH	COOL DOWN TEMP. P74101	-200...+50 °C					S	PCS	4	-120	A	PCS	3	50									036	
T 74140 / TIALSALL	SEAL LEAKAGE LIN PUMP P74101	-200...+50 °C	S	PCS	1	-150	A	PCS	3	-130													036	
T 74141 / TIALSALL	SEAL LEAKAGE LIN PUMP P74101	-200...+50 °C	S	PCS	1	-150	A	PCS	3	-130													036	
T 74230 / TISLAH	COOL DOWN TEMP. P74201	-200...+50 °C					SA	PCS	4	-120	A	PCS	3	50									036	
T 74240 / TIALSALL	SEAL LEACKAGE LIN PUMP P74201	-200...+50 °C	SA	PCS	1	-150	A	PCS	3	-120													036	
T 74241 / TIALSALL	SEAL LEAKAGE LIN PUMP P74201	-200...+50 °C	SA	PCS	1	-150	A	PCS	3	-130													036	
T 77001 / TI	INLET GAN COMPRESSOR 2	0...60 °C																					020	

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TAG-NO. / FUNCTION	DESIG-NATION	RANGE	LL S/A	LL loc	LL prio	LL threshold	L S/A	L loc	L prio	L threshold	H S/A	H loc	H prio	H threshold	HH S/A	HH loc	HH prio	HH threshold	CONTROLLER SETTINGS W	Kp	Tn	Td	P&I SHEET	REMARKS
T 77015 / TIAHSAHH	GAN BEH. COOLER 1ST STAGE	0...200 °C									A	PCS	3	55	SA	PCS	1	60					020	
T 77025 / TIAHSAHH	GAN BEH. COOLER 2ND STAGE	0...200 °C									A	PCS	3	55	SA	PCS	1	60					020	
T 77035 / TIAHSAHH	GAN BEH. COOLER 3RD STAGE	0...200 °C									A	PCS	3	55	SA	PCS	1	60					020	
T 77512 / TI	COOLING WATER BEH. VW77001	0...60 °C																					020	local indicator
T 77522 / TI	COOLING WATER BEH. VW77002	0...60 °C																					020	local indicator
T 77532 / TI	COOLING WATER BEH. VW77003	0...60 °C																					020	local indicator
T 77621 / TI	COOLING WATER MOTOR COMP. 2	0...60 °C																					020	local indicator

Legend: F = local, V = local cabinet , S = control room, PCS = process control system

Annotation on column "Hook Up": (FP*) = Frost Protection recommended

Rev.	Date	Name	Checked	Change
2	24.02.2006	Frohn		Rev. 2
1	15.02.2005	Frohn		Rev. P0
0	21.12.2004	Frohn		Initial version

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MEASURING RANGE & LIMIT VALUES

AIR LIQUIDE

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Drwg.-No.:

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TAG-NO. / FUNCTION	DESIG-NATION	RANGE	LL S/A	LL loc	LL prio	L S/A	L loc	L prio	H S/A	H loc	H prio	HH S/A	HH loc	HH prio	CONTROLLER SETTINGS W	Kp	Tn	Td	P&I SHEET	REMARKS
			threshold			threshold			threshold			threshold								
T 84010	*STEAM FROM CUSTOMER*	*0...250 °C*				*A*	*PCS*	*3*	*A*	*PCs*	*3*								*031*	
TIAHL						*200*			*300*											

Legend: F = local, V = local cabinet , S = control room, PCS = process control system

Annotation on column "Hook Up": (FP*) = Frost Protection recommended

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