

Client : ROLANDE LNG				INSTRUMENT / VALVE LIST				Doc. No : 08-132 IL-01	
Cryovat International B.V. Nijverheidsstraat 33 3861 RJ Nijkerk, Holland		Description CRYOVAT		Project No : 08-132 Description : 45 FT SWAP tankcontainer LNG Flow Diagram : D0802904 REV. 3				Date : 12-10-10	
								Page : 1	
								Rev : 0	
No.	Tag No.	Description		Manufacturer	Type/Model	Size	PN	Range Set point	Remarks
1	V-1	FILL & DRAIN VALVE, GLOBE (CHECK)		HEROSE	01311.4048.5017	DN40	50		Bronze type
2	V-2	FILL & DRAIN FIRE BLOCK VALVE, BALL		WORCHESTER	20-C44-6666 PM BWABWA-R7	2"	60		Kinetrol firebrake valve
3	V-3	TOP FILL VALVE, GLOBE (CHECK)		HEROSE	01311.4048.5017	DN40	50		Bronze type
4	V-4	PUMP ISOLATION VALVE, GLOBE		HEROSE	01311.5060.0027	DN50	50		Bronze type
5	V-5	PRESSURE BUILD VALVE, GLOBE		HEROSE	01311.2533.0017	DN25	50		Bronze type
6	V-6	PB OUTLET VALVE, GLOBE		HEROSE	01311.4048.0017	DN40	50		Bronze type
7	V-7	VENT VALVE		HEROSE	01311.2533.0017	DN25	50		Bronze type
8	V-8	LIQUID FORM PUMP VALVE, GLOBE		HEROSE	01311.4048.0017	DN40	50		Bronze type
9	V-9a	FULL TRYCOCK VALVE 96.5%, GLOBE		HEROSE	01301.1521.0007	DN15	50		Bronze type
10	V-9b	FULL TRYCOCK VALVE 77%, GLOBE		HEROSE	01301.1521.0007	DN15	50		Bronze type
11	V-10	LIQUID SAMPLE VALVE, NEEDLE		REGO	T9452	1/4"	40		stainless steel
12	V-11	FILL LINE BLEED VALVE, GLOBE		HEROSE	01301.1521.0007	DN15	50		Bronze type
13	V-12	PUMP RECIRCULATION VALVE, GLOBE		HEROSE	01311.4048.0017	DN40	50		Bronze type
14	V-13	PUMP FORCE FEED VALVE, GLOBE		HEROSE	01311.1521.0017	DN15	50		Bronze type
15	V-14	LP ISOLATION VALVE, NEEDLE		PARKER	M8A-V4LR-SS	DN8	45		stainless steel
16	V-15	PANEL ISOLATION VALVE, NEEDLE		PARKER	M8A-V4LR-SS	DN8	45		stainless steel
17	V-16	LL GAUGE EQUALIZER VALVE, NEEDLE		WIKA	incl. in 732.51.100.2170	DN8			Incl. in 732.51.100.2170
18	V-17	PUMP RECIRCULATION VALVE, GLOBE		HEROSE	01311.4048.0017	DN40	50		Bronze type
19	V-18	RECIRC LINE BLEED VALVE, GLOBE		HEROSE	01301.1521.0007	DN15	50		Bronze type
20	V-19	DISCHARGE LINE BLEED VALVE, GLOBE		HEROSE	01301.1521.0007	DN15	50		Bronze type
21	V-20	ISOLATION VALVE, SV-6, NEEDLE		REGO	T9452	1/4"	40		stainless steel
22	V-21	INSTRUMENT VALVE, PI-2, NEEDLE		REGO	T9452	1/4"	40		stainless steel
23	V-22	INSTRUMENT VALVE, NEEDLE		REGO	T9452	1/4"	40		stainless steel
24	V-23	INSTRUMENT VALVE, NEEDLE		REGO	T9452	1/4"	40		stainless steel
25	TV-1	VACUUM CONNECTION		CRYOVAT	DN 50KF	DN50KF			
26	TC-1a	VACUUM VALVE		VAT	26424-KE01-X	16KF			
27	TC-1b	VACUUM MEASURING CONNECTION		TELEDYNE HASTINGS	DV-6M-KF16	16KF			
28	RF-1	JACKET VACUUM RELIEF, O-RING		CRYOVAT		NW100		0,2 bar g	
29	SV-1a	INNER VESSEL RELIEF VALVE, 10 bar, 145 PSI		HEROSE	06388.1006.0000	DN20	40	10 barg	Bronze type
30	SV-1b	INNER VESSEL RELIEF VALVE, 10 bar, 145 PSI		HEROSE	06388.1006.0000	DN20	40	10 barg	Bronze type
31	SV-1c	INNER VESSEL RELIEF VALVE, 10 bar, 145 PSI		HEROSE	06388.1006.0000	DN20	40	10 barg	Bronze type
32	SV-4	FILL LINE RELIEF VALVE, SET, 24.1 bar, 350 PSI		REGO	PRV-9432TP350	1/4"	40	24.1 barg	
33	SV-5	PB FIRE BLOCK RELIEF VALVE, SET, 24.1 bar, 350 PSI		REGO	PRV-9432TP350	1/4"	40	24.1 barg	
34	SV-6	PUMP SUCTION LINE RELIEF VALVE, SET 6.2 bar, 90 PSI		REGO	PRV-9432TP90	1/4"	40	6.2 barg	
35	SV-7	PUMPLINE RELIEF VALVE, SET, 24.1 bar, 350 PSI		REGO	PRV-9432TP350	1/4"	40	24.1 barg	
36	PI-1	VESSEL PRESSURE GAUGE 0-16 bar		WIKA	incl. in 732.51.100.2170	-			Scale in barg
37	PI-2	PRESSURE INDICATOR 0-40 bar		WIKA	233.50.63 40 BAR G1/4B LM	-			Scale in barg
38	LL-1	LIQUID LEVEL GAUGE, 0-100%		WIKA	732.51.100.2170	-			Scale in %
39	P-1	PUMP WITH HYDRAULIC MOTOR		ACD	TOP 260n - H	-			200 l/min
40	PB-1	PRESSURE BUILD UP COIL				3x5M	40		stainless steel
41	HC-1	FILL FLANGE CONNECTION		CRYOVAT		DN65	40		
42	HC-2	PUMP RECIRCULATION FLANGE CONNECTION		CRYOVAT		DN65	40		
43	HC-3	DISCHARGE CONNECTION		CRYOVAT		DN40	40		
44	HC-4	PURGE CONNECTION FILL LINE		CRYOVAT		1" BSP			
45	HC-5	PURGE CONNECTION PUMP RECIRCULATION LINE		CRYOVAT		1" BSP			
46	F	FILTER				DN65			
47	FL-1	FLEXIBLE				DN65			
48	FL-2	FLEXIBLE		ACD	Klasse B	DN40			According to Drawing 314.004273
49	G	GETTER				1/2"			1/2" NPT CONNECTION
50	PT100	TEMP TRANSMITTOR		WIKA	F73.100	-			-200/+50 °C