

## FORM C GAS

# **PGC PATREAS**



#### MODEL

# Form C gas



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GENERAL INFORMATION

# **A1 PRINCIPAL SHIP PARTICULARS**

1.1	Name of Ship	PGC PATREAS		
1.2	Previous Name(s)	N/A		
1.3	Builder	Kyokuyo, Japan		
1.4	Date of delivery	22 <sup>nd</sup> May 2017		
1.5	Classification Society	BV		
1.6	Gross Registered Tonnage	6,248		
1.7	Net registered Tonnage	2,095		
1.8	Suez Tonnage Gross/Net			
1.9	Panama tonn. Total Volume m3/Net			
1.10	Registered Owner	PATREAS MARITIME LTD		
	Address	Ajeltake Road, Ajeltake Island Majuro, Marshall Islands		
	Telephone			
	Telex/fax			
1.11	Manager or Operator	Paradise Navigation SA		
	Address	4-6 Solomou Str. N. Psychiko Greece		
	Telephone	+30 210 6912010		
	Telex/fax	+30 2106912272		
1.12	Flag	Malta		
1.13	Port of registry	Valletta		
1.14	Official No.	9796169		
1.15	Call Sign	9HA4579		
1.16	Immarsat No.	424825310		
1.17	LR/IMO No.	9796169		
1.18	Was the ship built in accordance with th	e following regulations		
	IMO	YES		
	USCG	YES		
1.19	IMO Certification			
	Certificate of Fitness IGC	YES		
	Letter of Compliance	YES		
1.20	Date questionnaire compiled	19/05/2017		
	1			

## **A2 HULL DIMENSIONS**

2.1	Length overall	117.02 m
2.2	Length between perpendiculars	110.00 m
2.3	Extreme breadth	19.20 m
2.4	Extreme depth	9.5 m
2.5	Summer draught	6.8135 m
2.6	Corresponding deadweight	6,861 Tonnes
2.7	Load displacement	
2.8	Load displacement (summer)	10,830.89 Tonnes
2.9	Cargo tank cubic capacity (100%)	$7,543.427 \text{ m}^3$
2.10	Distance from keel to top antenna	36.15 m
2.11	Air draught (with normal ballast)	31.62 m

## **A3 BALLAST PARTICULARS**

3.1	Permanent Ba	ıllast	N/A
3.2	3.2 Ballast quantity		911.0 Tonnes
3.3	Bunkers, store	es, etc.	504.0 Tonnes
3.4	Draught	- Forward	2.356 m
		- Aft	5.507 m
		- Mean	3.932 m

## **A4 IMMERSION**

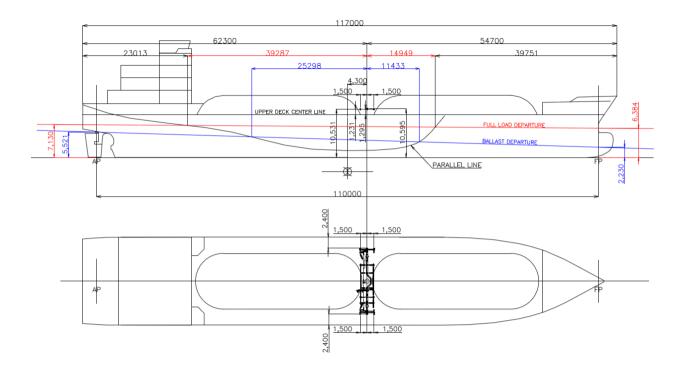
4.1	TPC at normal draught	18.69 Tonnes at 5.80 m mean draught
4.2	TPC at loaded draught	19.66 Tonnes at 6.80 m mean draught

## **A5 LOADED PARTICULARS**

5.1	Cargo		Butane	Propane	C4 (Butylene)	VCM
5.2	Density		0.607	0.539	0.627	0.966
5.3	Cargo	tons	4461.4	3,961.6	4608.4	5,433.7
5.4	Bunkers	IFO	434.5	434.5	434.5	434.5
5.5	GASOIL		-	-	-	-
5.6	Fresh water		204.6	204.6	204.6	204.6
5.7	Stores/spares		-	-	-	-
5.8	Lub oil		-	-	-	-
5.9	Ballast		250.3	250.3	250.3	709.4
5.10	Deadweight		5499.5	4,999.7	5646.5	6,930.9
5.11	Draught	- Forward	5.076	4.619	5.210	6.219
		- Aft	6.875	6.777	6.904	7.282
		- Mean	5.976	5.698	6.057	6.751

5.1	Cargo		Mix: 50/50	Mix: 30/70 - C3/C4	Mix:70/30 - C3/C4	
5.2	Density					
5.3	Cargo	tons	3,993	4,088	3,898	
5.4	Bunkers	IFO				
5.5	GASOIL					
5.6	Fresh water					
5.7	Stores/spares					
5.8	Lub oil					
5.9	Ballast					
5.10	Deadweight					
5.11	Draught	- Forward				
		- Aft				
		- Mean	5.73	5.87	5.74	

## **A6 PARALLEL MID-BODY DIMENSIONS**



#### **A7 BUNKER CAPACITIES**

7.1	M.E. Fuel Oil	Grade	IFO 380	(δ:0,980)	
		Capacity 98%	499.91 Tonnes		
7.2	Diesel Oil Grade		$(\delta : 0,840)$		
		Capacity 98%	80.23 Tonnes		

#### **A8 SPEED & FUEL CONSUMPTION DETAILS**

8.1	At sea, laden speed 12.50 kts / ballast speed 13.30 kts	FO	7.6 ton/day
	At sea, laden speed 13.20 kts / ballast speed 14.20 kts	FO	9.1 ton/day
	At sea, laden speed 13.90 kts / ballast speed 15.10 kts	FO	11.0 ton/day
	At sea	GO	1.2 ton/day
8.2	At sea (normal service speed) while conditioning cargo	N/A	
8.3	In port, loading	FO	ton/day
		GO	3.4 ton/day
8.4	In port, discharging	FO	ton/day
		GO	3.4 ton/day
8.5	In port, idle	FO	ton/day
		GO	ton/day

#### **A9 MAIN ENGINE PARTICULARS**

9.1	Main engine make and type	Makita Corporation / MAN B&W 6L35MC6.1 (De-rated)
9.2 No. of units		1
9.3	Maximum continuous rating (MCR) per engine	178.0 rpm
9.4	Total available power	2,640 kW
9.5	Normal service power (ECR)	2,376 kW at 171.9 rpm

#### **A10 AUXILIARY PLANT**

10.1	Make and type of auxiliary	Taiyo Electric Co., Ltd. FE 540L-6
	generators	
10.2	No. of units	2
10.3	Maximum generator output per	480 kW
	unit	
10.4	Shaft generator	N/A
10.5	Emergency generator	96 kW
10.6	Total available power	960 kW

#### **A11 POWER/SPEED INFORMATION**

11.1	Trial data	BHP	2,528 kW
		MCR	
		Speed	15.67 kts
		Draught	3.850 m
11.2	Normal service		2,376 kW
	speed	BHP	
		MCR	
		Speed	Abt 13.6 kts
	•	Draught	5.814 m

#### **A12 THRUSTERS**

12.1	Make and type	KAWASAKI KT-43B1
12.2	No. Installed	1
12.3	Location and rated bollard pull	FORE (Fr. 149) – 5 Ton Nominal Thrust

#### **A13 FRESH WATER**

13.1	Capacity of distilled tanks	100.40 m <sup>3</sup>
13.2	Capacity of domestic tanks	$104.85 \mathrm{m}^3$
13.3	Daily consumption distilled	
	domestic	
13.4	Daily evaporator production	Abt. 9 tonnes/day

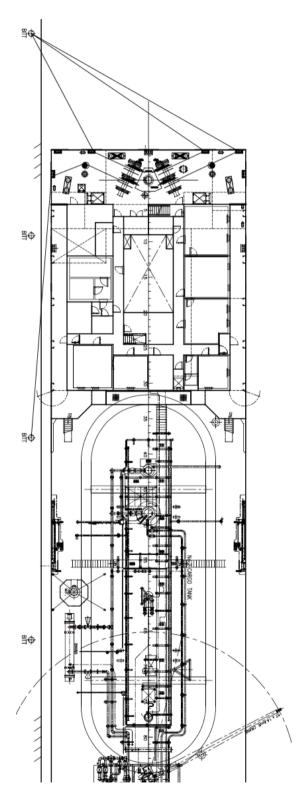
## **A14 BALLAST CAPACITIES AND PUMPS**

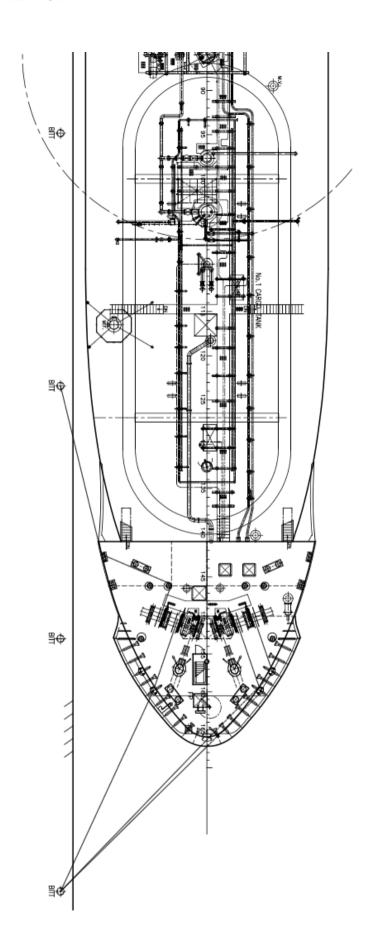
Fill the following table	Fill the following table				
	Tank	Capacity (m³)			
14.1	Fore peak	118.73			
14.2	Wing or side tanks	1,724.28			
14.3	Double bottoms	-			
14.4	Aft peak	226.74			
14.5	Other	-			
14.6	Total	2,071.75			
14.7 Ballast pump make and type	Centrifugal - TAIKO KIKAI EMCN 200	0MD			
14.8 No. of Pumps	2				
14.9 Total capacity	500 m <sup>3</sup> /h (2 x 250m <sup>3</sup> /h)	$500 \text{ m}^3/\text{h} (2 \text{ x } 250\text{m}^3/\text{h})$			
14.10 Location	Engine Room Lower Floor (FR.29 – 30)				
14.11 Control Location	Engine Control Room and Cargo Monitoring Room				

# **A15 MOORING EQUIPMENT**

#### 15.1 Ropes and Wires.

On the diagram below indicate the position of winch mounted wires(W) and ropes (R) together with open (O) and closed (C) fairleads.





#### GENERAL INFORMATION

Mooring Winches	No	Motive power (steam,hydraul)	Heaving power	Brake Capacity	Hauling speed
Forecastle	2	hydraulic	74.5 kN	245 kN	15 m/min
Poop	2	hydraulic	74.5 kN	245 kN	15 m/min
15.3 Anchors and Windlasses					
Windlass motive Powe (steam, hydraulic)	r hydraulio	2			
Hauling po	wer Tonnes 1	124.5 kN			
Brake holding capa	icity Tonnes	716 kN			
Date of last					
Anchor type	Stockless A	AC14 Type			
Weight	Each ancho	or 2.840 tonnes			
Is spare carried	NO				
Cable diameter	54 mm				
No of shackles port	9				
No of shackles starbo	ard 10				
15.4 Windage					
Windage on ba draught	llast m <sup>2</sup>				
Windage full loaded	$m^2$				

# **A16 NAVIGATIONAL EQUIPMENT**

Is the fo	ollowing equipment fitted:	YES	NO
16.1	Magnetic compass	X	
16.2	Gyro compass and repeaters	X	
16.3	Radars	X	
16.4	Radar plotting equipment	X	
16.5	Arpa	X	
16.6	Echo sounder	X	
16.7	Speed/Distance indicator	X	
16.8	Doppler log	X	
16.9	Rudder angle, RPM, controllable pitch and Thrusters indicators	x	
16.10	Rate of turn indicator		X
16.11	Radio D.F.		X
16.12	Navtex receivers	X	
16.13	Satellite navigator	X	
16.14	Decca navigator		X
16.15	Loran C		X
16.16	Sextants		X
16.17	Signal lamp (aldis)	X	
16.18	Course recorder	X	
16.19	Engine order printer		X
16.20	What chart outfit coverage is provided if limited, indicate areas covered	No limitation	
16.21	Formal chart correction system in use	Chartco	
	, ,		

# **A17 COMMUNICATION EQUIPMENT**

	ollowing equipment fitted :	YES	NO
17.1	Is ship with GMDSS	X	
17.2	Radio telegraph main transmitter including facility to transmit on radio telephone distress frequency		X
17.3	Radio telegraph main receiver including facility to receive on radio telephone distress frequency		X
17.4	Radio telephone distress frequency watch receiver	X	
17.5	Main radio antenna	X	
17.6	Radio telegraph reserve transmitter		X
17.7	Radio telegraph reserve receiver		X
17.8	Reserve radio antenna		X
17.9	Are the main and reserve installation electrically separate and electrically independent of each other		X
17.10	Radio telegraph auto alarm		X
17.11	2182 KHZ bridge watch receiver	X	
17.12	Alarm signal generating device	X	
17.13	VHF radio	X	
17.14	Inmarsat satellite communications system	X	
	if yes, state identification number		
17.15	Telephone		
	if yes, state identification number		
17.16	Telephone		
	if yes, state identification number		
17.17	Weather fax	X	
17.18	Epirbs		X
17.19	At least three survival craft two-way radio telephone apparatus	X	
17.20	Emergency lifeboat transmitter		X
17.21	Full set of publications	X	
17.22	Satellite Epirb	X	
17.23	VHF Epirb		X
17.24	Radio transponder for survival craft	X	



#### CARGO SYSTEMS



## **B1 CARGO - GENERAL INFORMATION**

1.1	List products which the ship is certified to carry	344
1.2	Minimum allowable tank temp.	-10 °C
1.3	Maximum permissible tank pressure	17.7 Bar (1.77 Mpa)
1.4	List grades which can be transported simultaneously	2
1.5	T', 1 1'1 1 1 1 1	1
1.5	List grades which can be loaded or discharged simultaneously	1
1.6	State natural tank segregation. (N.B. separation obtained by the removal of spools or by insertion of blind flange)	By blind flange
1.7	Number of products, (gas) that can be conditioned by reliquefaction simultaneously.	N/A

## **B2 CARGO TANKS**

2.1	No. and type of cargo tanks	2 Tanks - Type C
2.2	Maximum allowable relief valve setting	17.3 Bar Gauge
2.3	Safety valve set pressure - if variable give range for pilot valve	N/A
2.4	Maximum vacuum	0.344 Mpa
2.5	Maximum cargo density	0.966 Ton/m³ (VCM)
2.6	Maximum rate of cool-down	°C/hr
2.7	State any limitations regarding partially filled tanks	No limitations
2.8	State allowable combinations of filled and empty tanks	No Restriction

# **B3 CARGO TANK CAPACITIES** (including tank dome)

Complete the following table

TANK	Capacity CBM	Capacity CBM	PROPANE	AMMONIA	BUTANE	VCM
	100%	98%	Tonnes -42.8°C	Tonnes -33°C	Tonnes -0.5°C	Tonnes -10°C
1	3,772.7	3,697.2	1,687.2		2,032.6	3,205.2
2	3,773.1	3,697.6	1,687.4		2,032.6	3,205.6
TOTALS	7,545.8	7,394.8	3,374.6		4,065.4	6,410.8

## **B4 LOADING RATES**

		PRODUCT	RATE (Tons	nes/hr)
4.1	From refrigerated storage		With vapour return	Without return
4.2		BUTANE		
4.3		PROPANE		
4.4		AMMONIA		
4.5				
4.6				
4.7				
		PRODUCT	RATE (Tonnes/hr)	
4.8	From pressure storage		With vapour return	Without return
4.9		BUTANE 0-30°C	480	
4.10		PROPANE 0°C	420	
4.11		10° C		
4.12		20° C		
4.13		30° C		

#### **B5 DISCHARGING - GENERAL**

Cargo	pumps				
5.1	Type of pumps Elect. Motor Driven Vertical Turbine (deep well pump)				
5.2	Number per tank	1			
5.3	Rate (per pump)	LPG 400 m <sup>3</sup> /h, VCM 200 m <sup>3</sup> /h			
5.4	Delivery head	LPG 110 m , VCM 148 m			
5.5	Maximum density	0.949			
	Booster pumps				
5.6	Type of pump	Elect. motor driven NMB 150C			
5.7	Number	1			
5.8	Rate (per pump)	$300 \text{ m}^3\text{/h}$			
5.9	Delivery head	110 m			
5.10	Maximum density	0.657			

#### **B6 DISCHARGE PERFORMANCES**

Full cargo discharge times (using all main pumps)

		MANIFOLD	Hou	rs
6.1	From refrigerated	<b>BACK PRESSURE</b>	With vapour return	Without return
6.2		1 bar (with 2 deepwell)		
6.3		2 bar (with 2 deepwell)		
6.4		3 bar (with 2 deepwell)		
		MANIFOLD	Hou	rs
6.5	Pressurized	<b>BACK PRESSURE</b>	With vapour return	Without return
6.6		1 bar (with 2 deepwell)		
6.7		2 bar (with 2 deepwell)		
6.8		3 bar (with 2 deepwell)		

#### **B7 UMPUMPABLES**

	TANK NO.	1	2	3	4	5	6	TOTAL TONNES
7.1	Vapour							
7.2	Liquid	0.5 m3	0.5 m3					1.0 m3
7.3						Total q	uantity	

#### **B8 VAPORISING UNPUMPABLES**

8.1	Process used
	Time to vaporise liquid unpumpables remaining after full cargo discharge:
8.2	- Propane
8.3	- Butane
8.4	- Ammonia
8.5	- Propylene
8.6	-
8.7	-

## **B9 RELIQUEFACTION PLANT** N/A

9.1	Plant design conditions	Air temperature Sea temperature		
	Dianter	Sea temperature	C	
	Plant type:			
9.2	Single stage/direct			
9.3	Two stage/direct			
9.4	Simple cascade			
9.5	Coolant type			
	Compressors			
9.6	Type			
9.7	Number			
9.8	Capacity (per unit)			
9.9	Are they oil-free			

#### **B10 COOLING CAPACITY**

 State cooling capacity (in Kcal/hr) for:

 10.1
 Propane
 @ °C

 10.2
 @ °C

 10.3
 @ °C

 10.4
 Butane
 @ °C

 10.5
 @ °C

 10.6
 @ °C

# B11 CARGO TEMPERATURE LOWERING CAPABILITY (AT SEA)

Time taken to lower the temperature of:

11.1	Propane from	°C to °C
11.2		°C to °C
11.3		°C to °C
11.4		°C to °C
11.5		°C to °C
11.6	Butane from	°C to °C
11.7		°C to °C
11.8		°C to °C

#### **B12 INERT GAS**

Main i	ain inert gas and nitrogen plant			
12.1	Type of system	PSA type Nitrogen Gas Generating Equipment		
12.2	Capacity	$400 \text{ m}^3/\text{h}$		
12.3	Composition of inert gas	99.9%		
12.4	Dew point			
12.5	Used for	Cargo Tank		
	Nitrogen			
12.6	No of bottles	N/A		
12.7	Capacity (each one)	N/A		
12.8	Used for			
Main	inert gas and nitrogen	Nitrogen		

#### **B13 CARGO TANK INERTING/DE-INERTING**

13.1 Time taken from fresh air to under 5% 02 at -25°C dewpoint Time taken from cargo vapour to fully inert at -25°C dewpoint

13.2 When: Inert gas density less than product Inert gas density greater than product

#### **B14 GAS FREEING TO FRESH AIR**

14.1 Plant used N2 Generating System

14.2 Time taken from fully inerted condition to fully breathable fresh air 10.2 hrs

## **B15 CHANGING CARGO GRADES**

In this table write down time to change products (in hrs). Write also consumption of nitrogen.

From	PROPANE	BUTANE	PROPYLENE	AMMONIA	VCM
То	TIME/CONS.	TIME/CONS.	TIME/CONS.	TIME/CONS.	TIME/CONS.
PROPANE					_
BUTANE					
PROPYLENE					
AMMONIA					
VCM					

#### **B16 DECK TANK CAPACITY**

16.1	Propane capacity	Cbm	NA
16.2	Butane capacity	Cbm	NA
16.3	Ammonia capacity	Cbm	NA
16.4	Nitrogen capacity	Ncm	NA

#### **B17 PRE-LOADING COOLDOWN**

In the table below, show time and quantity of coolant required to cooldown cargo tanks from ambient temperature and fully gassed up state sufficient to allow loading to commence.

			TIM	E
	PRODUCT	QUANTITY REQUIRED	With return line	
17.1				
17.2	PROPANE			
17.3	BUTANE			
17.4	AMMONIA			
17.5	VINYL			

#### **B18 VAPORISER**

18.1	Type of vaporiser	N.A.
18.2	Number fitted	
18.3	Capacity (per unit)	cbm/hr vapour
18.4	Liquid supply rate	cbm/hr liquid
18.5	Delivery temperature	°C

#### **B19 BLOWER**

1	19.1	Type of blower	
1	19.2	Rated capacity	
1	19.3	Delivery pressure	

## **B20 CARGO RE-HEATER**

20.1	Type of re-heater	Horizontal Shell and Tube	
20.2	Number fitted	1	
20.3	Heating medium	Sea Water	
	Discharge rates with sea water at 18°C to raise product temperature:		
20.4	for propane from -48°C to -10°C	550m³/h	
20.5	for ammonia from -°C to °C		

## **B21 HYDRATE CONTROL**

21.1	Freezing point temperature of Depressant	
21.2	Quantity of Depressant carried	
21.3	Means of injection	

#### **B22 CARGO MEASUREMENT**

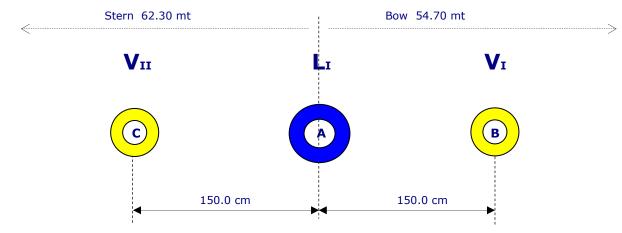
	LEVEL GAUGES	
21.1	Are level gauges local or remote	Remote
21.2	Manufacturer	MUSASINO CO., LTD.
21.3	Type	Magnetic Float Type
21.4	Rated accuracy	±10mm
21.5	Certifying authority	BV
	TEMPERATURE GAUGES	
22.6	Manufacturer	HYODA INSTRUMENTS CORP.
22.7	Type	Drip-proof type
22.8	Rated accuracy	±2°C
22.9	Certifying authority	
	PRESSURE GAUGES	·
22.10	Manufacturer	NAGANO KEIKI CO.,LTD
22.11	Type	Weather proof type
	Rated accuracy	±1.6% F.S.
22.13	Certifying authority	
	OXYGEN ANALYSER	
22.14	Manufacturer	
22.15	Type	
	FIXED GAS DETECTOR	
	Manufacturer	
22.17	Туре	
22.18	No of points detected	
	PORTABLE GAS DETECTOR	
22.19	Number	
22.20	Manufacturer	
22.21	Type	
	TOXIC GAS INDICATOR	
22.22	Number	
22.23	Туре	
	TOXIC GAS INDICATOR TUBES	
22.24	Number	
22.25	Products	
22.26	Exp.dates	
	TANKSCOPE	
22.27	Type	

# **B23 CARGO SAMPLING**

23.1 Fill the following table						
CARGO TANKS		CARGO TANKS	CAR	GO TANKS	CARGO TANKS	
1		1	1		1	
2		2	2		2	
23.2 Can sample be drawn from:						
- Tank vapour outlet		- Tank vapour outlet		- Tank vapour outlet		
- Manifold liquid line		- Manifold liquid line		- Manifold liquid line		
- Manifold vapour line		- Manifold vapour line		- Manifold vapour line		
- Pump discharge line		- Pump discharge line		- Pump discharge line		
23.3 State connection type and size	•	SCREW – 10.5 millimetres		23.3 State co	State connection type and size	

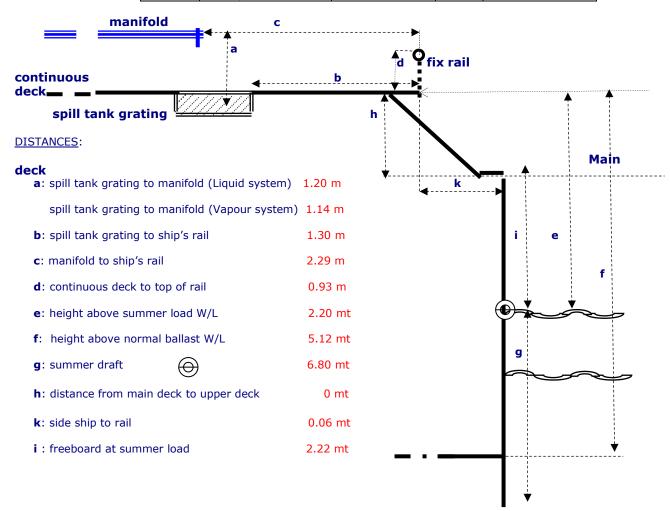
#### **B24 CARGO MANIFOLD ARRANGEMENTS**

#### **CARGO MANIFOLD**



CENTRELINE OF MANIFOLD

Pipe	Duty	Rating	Size	Raised (R) or
Flange				Flat (F) face
Α	Liquid system I	Ansi <b>300</b>	10"	R
В	Vapour " I	Ansi <b>300</b>	6"	R
С	Vapour " II	Ansi <b>300</b>	6"	R



## **B25 CARGO MANIFOLD REDUCERS**

• For Liquid (design temperature: -48°C)

Terminal Side	Quantity	
ANSI #300-300A	1	
ANSI #300-200A	1	
ANSI #300-150A	1	
ANSI #300-125A	1	
ANSI #300-100A	1	
ANSI #300-80A	1	
ANSI #150-250A	1	
ANSI #150-200A	1	
ANSI #150-150A	1	
ANSI #150-125A	1	
	ANSI #300-300A  ANSI #300-200A  ANSI #300-150A  ANSI #300-125A  ANSI #300-100A  ANSI #300-80A  ANSI #150-250A  ANSI #150-250A	ANSI #300-300A 1  ANSI #300-200A 1  ANSI #300-150A 1  ANSI #300-125A 1  ANSI #300-100A 1  ANSI #300-80A 1  ANSI #150-250A 1  ANSI #150-250A 1  ANSI #150-150A 1

#### CARGO SYSTEMS

• For Vapor (design temperature: -10<sup>oc</sup>)

Terminal Side	Quantity	
ANSI #300-200A	1	
ANSI #300-125A	1	
ANSI #300-100A	1	
ANSI #300-80A	1	
ANSI #300-50A	1	
ANSI #150-200A	1	
ANSI #150-150A	1	
ANSI #150-125A	1	
ANSI #150-100A	1	
ANSI #150-80A	1	
	ANSI #300-200A  ANSI #300-125A  ANSI #300-100A  ANSI #300-80A  ANSI #300-50A  ANSI #150-200A  ANSI #150-150A  ANSI #150-125A  ANSI #150-100A	ANSI #300-200A 1  ANSI #300-125A 1  ANSI #300-100A 1  ANSI #300-80A 1  ANSI #300-50A 1  ANSI #150-200A 1  ANSI #150-150A 1  ANSI #150-125A 1  ANSI #150-125A 1

## **B26 MANIFOLD DERRICK/CRANE**

26.1	Is Manifold Derrick provided	NO		
26.2	Is Manifold Crane provided	YES		
26.3	Is lifting equipment same port and starboard	YES		
	If not give details	(Welded steel post arranged at the Centre Line of the vessel)		
26.4	State SWL at maximum outreach	5 Tonnes at maximum outreach of 14.6 m (5 m from side)		