



# SGMF form: GFV-A.v1.2

## Gas Fuelled Vessel

### LNG Bunker Station

# Manifolds Arrangement Information Form

Use one form per each bunker station

All dimensions in mm unless otherwise specified

Date

**Note:** LNG bunkering Manifold Arrangement references used in this form are as per SGMF Technical Guidance Note "TGN 06-05, LNG as a marine fuel – Manifold arrangements for gas-fuelled vessels". Please refer to TGN 06-05 for recommended Manifold Arrangement design principles and dimensions.

### Vessel Identification:

Vessel Name / IMO Number:

LOA: [m] LBP: [m] Breadth: [m] Draught: [m]

Owner:

Flag:

Classification Society:

Number of LNG Bunker Stations:

### Bunker Station Identification:

Bunker Station ID:

Number of Manifolds:

Location: Port Starboard Other (specify)

Bunker Station Layout: Open-deck Semi-enclosed or Enclosed

### Manifolds Orientation:

Present – In Use:

Present – In Use:			
Manifold ID:			
Manifold Datum Flange	(most aft Liquid Line):		

Manifolds elevation view - Looking Inboard





Vessel Name / IMO Number:

Bunker Station ID:

### Manifold Mechanical Loading:

Reference	All loads in N, all moments in Nm	
Fx		
Fy		
Fz		
Mxz		
Mt		

### Presentations flanges loads restrictions:

Reference	Loads restrictions and remarks	
<b>Coupling receptacle</b> (Fx,Fy,Fz,Mxz,Mt)		
<b>Spool piece ASME B16.5 RF150</b> (Fx,Fy,Fz,Mxz,Mt)		
<b>Other specify</b> (Fx,Fy,Fz,Mxz,Mt)		

Vessel Name / IMO Number:

Bunker Station ID:

### Bunker Station Location:

Reference	Dimensions [m]	
BH1	[m]	<p><b>Note:</b> Manifold Datum Flange (most aft Liquid Line):</p>
BH2	[m]	
BV1	[m]	
BV2	[m]	
BV3	[m]	

### Bunker Station Accessibility:

Reference	Notes
<b>Handrails</b> (fixed, removable, high, etc.)	
<b>Shell Doors</b> (opening, dimensions, etc.)	
<b>Barrier &amp; Obstructions</b>	

### Bunker Station Lifting Gear:

Reference	Notes
<b>Description</b> (type, numbers, location, etc.)	
<b>Reach &amp; SWL</b>	

Vessel Name / IMO Number:

Bunker Station ID:

**Bunker Station Protection from Spillage:**

Reference	Notes
<b>Drip Tray</b> (Location, dimensions, point of discharge, etc.)	
<b>Water Curtain</b> (Location, extensions, etc.)	
<b>Others</b> (type, location, etc.)	

**Additional notes and Remarks:**

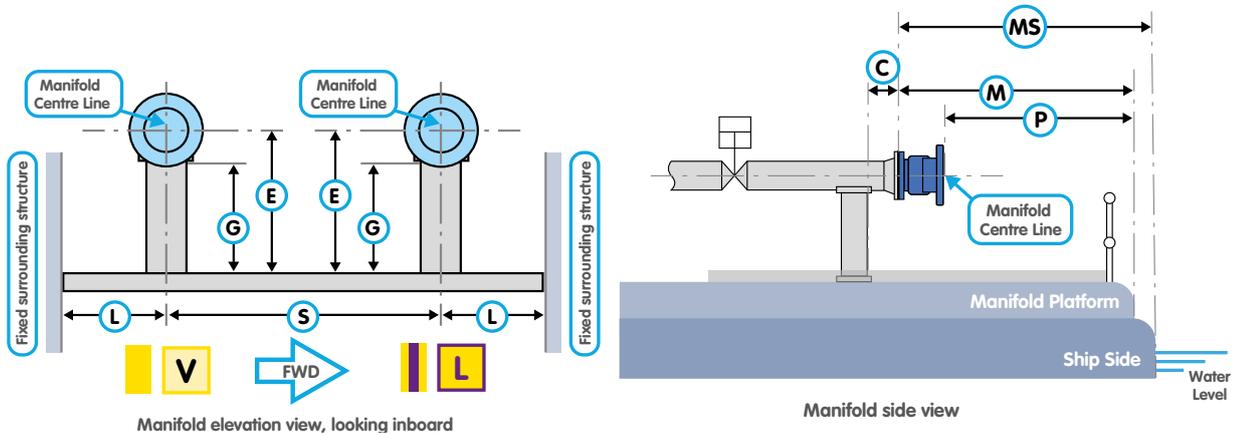
Reference	Notes

Vessel Name / IMO Number:

Bunker Station ID:

**Dimensions References (ref: TGN 06-04):**

ID	Name	Description
[C]	Cantilever	Distance from the manifold flange to the first structural support
[G]	Clearance	Distance from the manifold presentation flange to the manifold platform
[E]	Elevation	Distance from the manifold centre line to the manifold platform
[M]	Manifold flange platform setback	Distance from the manifold flange to the end of the manifold platform
[L]	Manifold Free Space	Lateral distance from the manifold centre line and surroundings structure.
[BH1]	Manifold Horizontal Location	Distance from flange datum to vessel forward perpendicular
[BH2]	Manifold Horizontal Location	Distance from flange datum to vessel aft perpendicular
[S]	Manifold intra-spacing	Distance between the centre lines of two manifolds
[BV1]	Manifold Vertical Location	Elevation from vessel moulded baseline to flange datum
[BV2]	Manifold Vertical Location	Elevation from minimum unloaded draft to flange datum
[BV3]	Manifold Vertical Location	Elevation from maximum loaded draft to flange datum
[P]	Presentation Flange Setback	Distance from the presentation flange to the end of the manifold platform
[Y]	Ship's Side Deckhead Clearance	Distance from the manifold centre line to the extent of the overboard deckhead vertical clearance
[X]	Ship's Side Free Space	Distance from the outer manifold centre line to the extent of the overboard free space
[H]	Spool Piece / Reducer	Length of spool pieces and reducers
[MS]	Manifold flange ship side setback	Distance from the manifold flange to the ship side



**Note:** While this document is based on current good industry practices and available information, it is intended solely for guidance and use at the owner's/operator's own risk. No responsibility is accepted by SGMF – nor by any person, company or organisation related to SGMF – for any consequences resulting directly or indirectly from compliance with, or adoption of, any information or recommendations contained herein.