



# Small Scale LPG FSU (Floating Storage Unit)

## STANDARD

### PICTURE OF SIMILAR VESSEL

#### GENERAL

Basic functions	Small scale stationary platform semi-permanent moored at sea for STS (side-to-side) and or tandem mooring for gas feeder / tanker. Storage, load / offload and treatment of liquefied gasses
Classification	Bureau Veritas I, ⚓Hull, • Mach, IWS, Barge / Liquefied Gas Storage, Interval docking 20 years

#### DIMENSIONS

Length overall	124.90 m
Beam moulded	37.00 m
Depth moulded	9.65 m
Draft design	4.50 m
Deadweight	14,000 t

#### TANK CAPACITIES

Ballast water	12,550 m <sup>3</sup>
Fuel oil (Solas - MGO)	60 m <sup>3</sup>
Potable water	60 m <sup>3</sup>
Sewage	60 m <sup>3</sup>
Lubrication oil	2 m <sup>3</sup>

#### LPG STORAGE TANKS

<b>Propane</b> volume	2 x 5,000 m <sup>3</sup> (geometric. fill)
Design pressure	2.5 bar
Design temperature	-10 °C
Material	Carbon as per Class
Insulation (GRP covered)	200 mm PUR
<b>Butane</b> volume	2 x 5,500 m <sup>3</sup> (geometric. fill)
Design pressure	3 bar
Design temperature	30 °C
Material	Carbon as per Class
Insulation (coating)	without

#### LOADING / OFF - LOADING

Loading	800 m <sup>3</sup> / hr
Off - Loading	800 m <sup>3</sup> / hr
Vapor	800 m <sup>3</sup> / hr
Hoses production site - platform - feeder, owners delivery	

#### MOORING SYSTEM

Mooring anchors	4x mooring winches holding force 1,500 kN pull 600 kN (anchors owner supply)
Mooring feeders	4x Q.R.H.C. (Quick Release Hooks and integrated Capstan), each hook SWL 150 kN, pull capstan 80 kN
Fenders	4x Yokohama fenders

#### ELECTRICAL EQUIPMENT

Generator set(s)	4x 280 kWe MGO driven Main generator 1x 120 kWe MGO driven Solas - / emergency generator
Shore supply	1x 150 kWe
CCTV system	Covering cargo load / offload operations

#### DECK LAY-OUT

Towing gear	4x Smit bracket SWL 1,000kN
Cranes	4x Electric-hydraulic hose handling-/maintenance cranes covering manifold(s) and tank dome(s), SWL 999kg @ 2.5 - 20m
Access	Boat landing
Life saving	Free fall- and MOB life boat, life buoys and - jackets

#### SECONDARY SHIP SYSTEMS

Fuel system	MGO
Compressor(s)	2x Working air
Separator(s)	1x Bilge water acc. Marpol
Pump(s)	2x Sprinkler / emerg. sprinkler 2x General Service / emerg. firefighting
Fire fighting	Dry powder system

#### ACCOMMODATION

Control tower with semi-permanent accommodation for a staff of 10 persons and 10 persons crew with heating, ventilation and air-conditioning

#### NAUTICAL AND COMMUNICATION EQUIPMENT

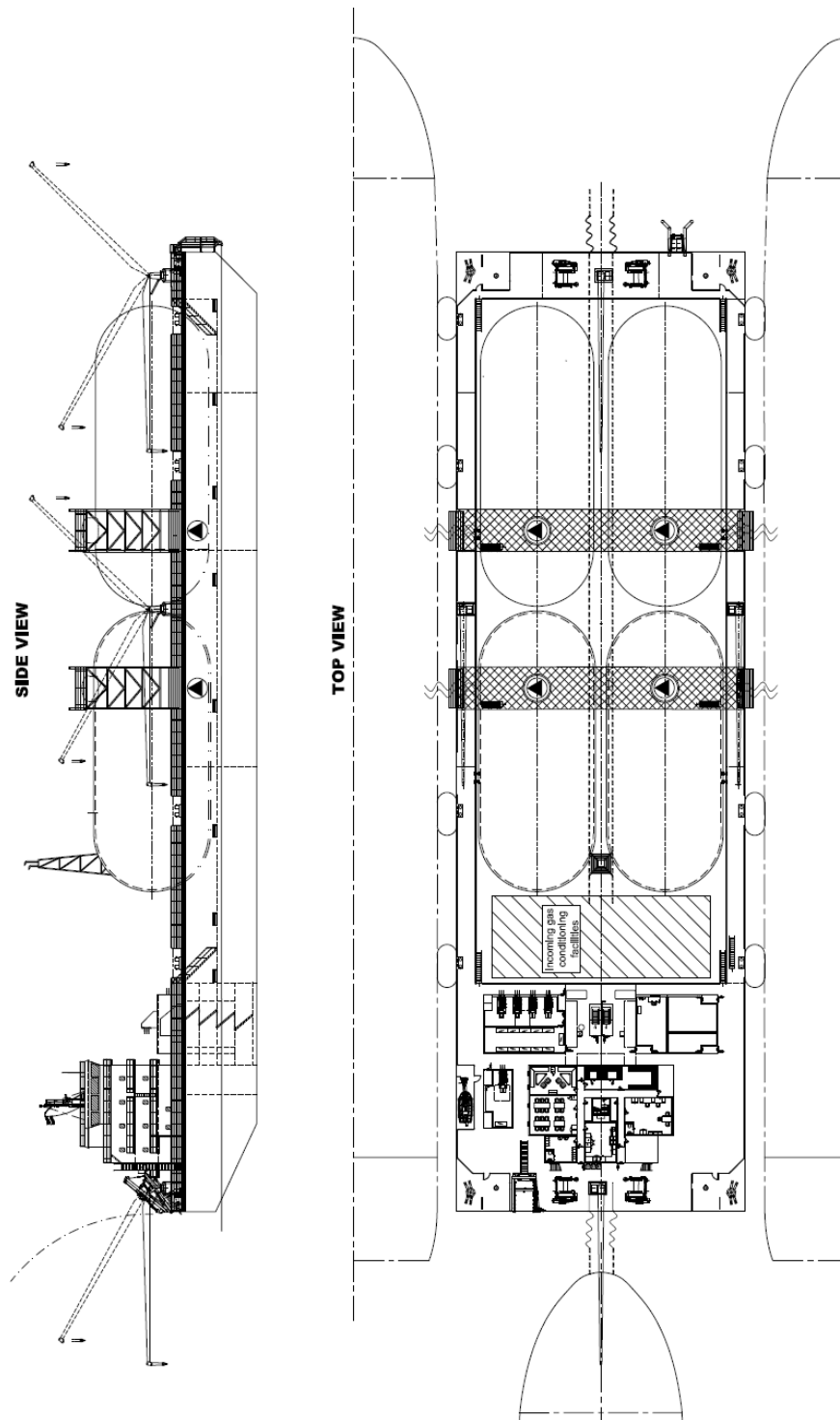
VHF radio telephone set	Communication platform - feeder
VHF 3x hand held	Communication on - board

#### SPECIAL EQUIPMENT - OPTIONS

LNG or LEG (note LNG; MGO driven gen.sets can be replaced by LNG driven gen.sets)  
FSO (Floating Storage Offloading)  
FSRU (Floating Storage Re-gasification Unit)  
Increase storage volume (by lengthening tanks and barge)  
Semi-permanent mooring shore with sliding guidance brackets for pillars (pillar design and delivery owner supply)  
Day accommodation only (moored at shore)  
2x Gangway provided with fence / gate  
Re-liquefaction  
Bunker platform (i.c.w. custody transfer system)  
Self-propulsion

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# DAMEN

DAMEN SHIPYARDS GROUP

Avelingen-West 20  
4202 MS Gorinchem  
The Netherlands

P.O. Box 1  
4200 AA Gorinchem  
The Netherlands

phone +31 (0)183 63 99 22  
fax +31 (0)183 63 21 89

info@damen.com  
[www.damen.com](http://www.damen.com)

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