



# Marine Loading Arm Datasheet

## 1.1 CONTACT INFORMATION

### Contact details

Company

Location

Contact person

Email

## 1.2 PROJECT PLANNING

### Project details

Project  Replacement  Facility expansion  New termina/plant

Project phase  Budget  FEED Study  Tender

Planned date of site delivery

## 1.3 ENVIRONMENTAL DETAILS

### Environmental influences

Location

City

Country

Terminal / plant name

Temperature

Min

Max

Seismic load

Peak ground acceleration  
(g)

Max wind speed stored position

M/s

Max wind speed maneuvering

M/s

Hazardous Area Classification

ATEX / NEC

## 1.4 GENERAL REQUIREMENT

MLA Product	Product / Medium	Flowrate m <sup>3</sup> /h	Diameter (inch)	Operation	
Marine Loading Arm 1				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 2				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 3				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine loading Arm 4				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 5				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 6				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 7				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 8				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic



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## 1.5 DESIGN DETAILS

MLA Product	Design pressure (bar)	Design temperature (min/max °C)	Operation	
Marine Loading Arm 1			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 2			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 3			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine loading Arm 4			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 5			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 6			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 7			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 8			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic

## 1.6 ACCESSORIES

MLA Product	QCDC		ERS		Vacuum breaker		Tracing and insulation		Vapour return line	
Marine Loading Arm 1	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine Loading Arm 2	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine Loading Arm 3	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine loading Arm 4	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine Loading Arm 5	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine Loading Arm 6	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine Loading Arm 7	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
Marine Loading Arm 8	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no

## 1.8 DIMENSIONS

### Jetty Dimensions

A	Centerline of Base Riser to dock face	
B	Dock face to compressed fender	
C	Dock level to lowest low water	Min
D	Difference between lowest low water and highest high water	Max
	The minimum ship size	DWT
	The maximum ship size	DWT

### Vessel Data

K	Min. Distance from ship railing to ship connection flange	mm
L	Max. Distance from ship railing to ship connection flange	mm
M	Minimum difference between Lowest low water and ship flange	mm
N	Maximum difference between Highest high water and Ship Flange	mm
O	Minimum spacing between ship flanges	mm
	Maximum spacing between ship flanges	mm
P	Rail height	mm
	Is the rail removable?	mm
Q	Height of center of ship flange to deck	mm

### Ship Movements

T	Heave	mm
U	Sway	mm
V	Surge	mm

### Additional jetty dimensions

E	Centerline of inlet flange to dock level	mm
G	Dock face to flange face	mm
H	Any dock conditions that limit the arm design	mm
I	Any dock conditions that limit the arm design	mm
J	Spacing between different base risers	mm



## 1.9 CONTROL SYSTEM

### Berth information

Berth customer reference

No. of New Marine Loading Arms

No. of existing Marine Loading Arms

Item	Configuration	Hazardous area classification	Included
1	Hydraulic control manifold	One (1) on each loading arm	<input type="checkbox"/> yes <input type="checkbox"/> no
2	Hydraulic Power Unit	Outside on jetty	<input type="checkbox"/> yes <input type="checkbox"/> no
3	Operation Control Panel at jetty nearby MLA	<input type="checkbox"/> Outdoor on jetty	<input type="checkbox"/> yes <input type="checkbox"/> no
		<input type="checkbox"/> Indoor in Berth control room	<input type="checkbox"/> yes <input type="checkbox"/> no
4	Satellite control panel	<input type="checkbox"/> outdoor on berth	<input type="checkbox"/> yes <input type="checkbox"/> no
5	PLC control cabinet	<input type="checkbox"/> Integrated in operation control panel	<input type="checkbox"/> yes <input type="checkbox"/> no
		<input type="checkbox"/> Standalone PLC cabinet in control room	<input type="checkbox"/> yes <input type="checkbox"/> no
6	Radio remote control		<input type="checkbox"/> yes <input type="checkbox"/> no
7	Pendant remote control	<input type="checkbox"/> On berth	<input type="checkbox"/> yes <input type="checkbox"/> no
		<input type="checkbox"/> At TSA (shipside)	