

DESIGN DATA FOR MARINE LOADING ARMS

GENERAL					
Client					
Location					
Contact person			E-mail		
Project	□Replace	ment	☐Facility expansion	□New termir	nal / plant
Project phase	□Budget		☐FEED Study	□Tender	
Planned date of site delivery					
ENVIRONMENTAL DE	TAILS				
Terminal / plant name					
Location	City			Country	
Temperature	Min		$^{\circ}$	Max	$^{\circ}\mathbb{C}$
Humidity	Min		%	Max	%
Seismic load				Peak ground a	acceleration (g)
Max. wind speed				km/h	
Hazardous Area Classification					
Quantity Diameter (in inches)	RM DAT	ΓΑ			
Length of riser					mm
Length of inboard arm					mm
Length of outboard arm Piping material					mm
Mode of operation			 ☐Mar	nual □Hydra	udic
Operation (loading and unloading)			□Loading	□Unloading	□Both
Vapour return line		☐Yes (Diameter) ☐No			
Tracing and Insulation					<u></u>
Vacuum breaker			 □Y		
Emergency Release System (ERS)		□Yes □No			
Quick Connect/Disconnect Couple	r (QC/DC)		☐Yes (Operation:		
* If arm lengths are not known, ple		"DIMENSIC		•	<u> </u>
* If ERS should be included, electri					,
PROCESS PARAMETE	ERS				

Product / Medium			
Density	kg/m ³	Viscosity	ср
Loading flow rate	m³/h	Unloading flow rate	m³/h
Operating pressure	bar	Design pressure	bar
Operating temperature	min/max ℃	Design temperature	min/max ℃
Ship connection flange type		Arm inlet flange type	

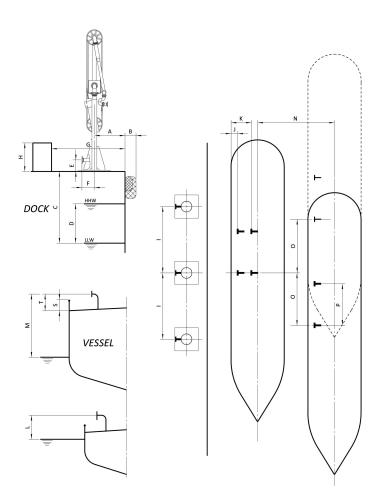
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DIMENSIONS OF INSTALLATION

Dimensions		
Centerline of base riser to dock face	mm	
Dock face to compressed fender	mm	
Dock level to lowest low water	mm	
Difference between lowest low water and highest high water (MAX)	mm	
Centerline of inlet flange to dock level	mm	
Centerline of base riser to Inlet flange face	mm	
Any dock conditions that limit the arm design	mm	
Any dock conditions that limit the arm design	mm	
Spacing between different base risers	mm	
el Data		
Min. Distance from ship railing to ship connection flange	mm	
Max. Distance from ship railing to ship connection flange	mm	
Min. difference between Highest high water and ship connection flange	mm	
Max. difference between Lowest low water and ship connection flange	mm	
Sway FOR/AFT	mm	
Surge FOR/AFT	mm	
Spacing between different ship connection flanges (Max/Min)	mm	
Rail height (Is the rail removable?)	mm	
Height of center of ship connection flange to deck	mm	
	Dock face to compressed fender Dock level to lowest low water Difference between lowest low water and highest high water (MAX) Centerline of inlet flange to dock level Centerline of base riser to Inlet flange face Any dock conditions that limit the arm design Any dock conditions that limit the arm design Spacing between different base risers Ploata Min. Distance from ship railing to ship connection flange Max. Distance from ship railing to ship connection flange Min. difference between Highest high water and ship connection flange Max. difference between Lowest low water and ship connection flange Sway FOR/AFT Surge FOR/AFT Spacing between different ship connection flanges (Max/Min)	Centerline of base riser to dock face mm Dock face to compressed fender mm Dock level to lowest low water mm Difference between lowest low water and highest high water (MAX) mm Centerline of inlet flange to dock level mm Centerline of base riser to Inlet flange face mm Any dock conditions that limit the arm design mm Any dock conditions that limit the arm design mm Spacing between different base risers mm Pl Data Min. Distance from ship railing to ship connection flange mm Max. Distance from ship railing to ship connection flange mm Min. difference between Highest high water and ship connection flange mm Max. difference between Lowest low water and ship connection flange mm Sway FOR/AFT mm Surge FOR/AFT mm Spacing between different ship connection flanges (Max/Min) mm Rail height (Is the rail removable?) mm



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CONTROL SYSTEM

	ltem	Configuration	Hazardous area classification	Inclu	ded
1	Hydraulic Power Unit	Outside on jetty		□Yes	□No
2	Separate control power			□Yes	□No
3	Operation Control Panel at jetty nearby MLA	☐ Outdoor on jetty ☐ Indoor in Berth control room		□Yes	□No
4	PLC control cabinet	☐ Integrated in operation control panel ☐ Standalone PLC cabinet in control room		□Yes	□No
5	Alarm indicators	☐ Beacon (flashlight) ☐ Horn		□Yes	□No
6	Radio remote control			□Yes	□No
7	Pendant remote control	☐ On berth ☐ At TSA (shipside)		□Yes	□No
* Main power supply (voltage):					
* Quantity of arms to control:+ extra for future:					

SENSORS, CONTROLS & ACCESSORIES

Item		Included	
1	Drain connector	□Land side □Ship side	
2	Purge system	□Yes □No	
3	Rest postion locker	□Yes □No	
4	Safety ladders	□Yes □No	
5	Adjustable support jack	□Yes □No	
6	Emergency shut-off valve	□Yes □No	
7	Range limit system (Position monitoring system (PMS))	□Yes □No	
8	Electric hydraulic control system	□Yes □No	

REMARKS & SPECIAL COMMENTS