

LOADING ARMS

**BUILT TO PERFORM.
BUILT TO LAST.**

Engineered loading arm solutions for safe, efficient and reliable transfer of liquids, gases and vapours.

PRODUCT
CATALOGUE

2026

PROFLOW
SAFE. SECURE.
RELIABLE.



Land Loading Arms

Land loading arms are designed to transfer fluids between piping systems and tankers. With features consisting of user-friendly and easy-to-operate, Proflow land loading arms have been used in various of job sites.

Function :	To transfer liquid or gas between loading platform and tank truck or railcar tank.
Applicable Tank:	Applicable for both top and bottom tanks.
Applicable Products :	Oil products, petrochemicals, LNG and other fluids.
Balance Mode:	Spring cylinder, gas spring, pneumatic cylinder or counterweight, for easy operation.
Operating Method:	Manual, Pneumatic or Hydraulic
Pipeline Material :	CS, SS, Aluminum, Alloy, FRP, Steel lined with PTFE, etc
Nominal Diameter :	DN25 ~ DN200 (1" ~ 8")
Design Temp.:	-196℃ ~ 250℃
Design Pressure :	-0.06MPa ~ 5.0MPa



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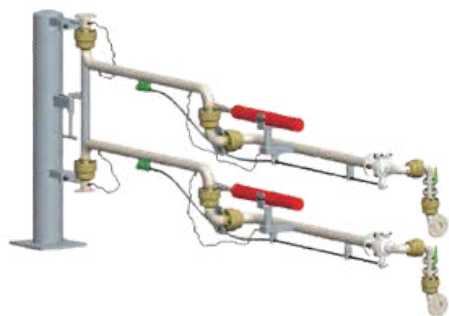


Typical Structures

Top Loading Arms



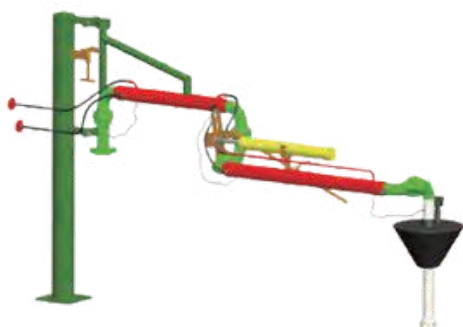
Single Liquid Line



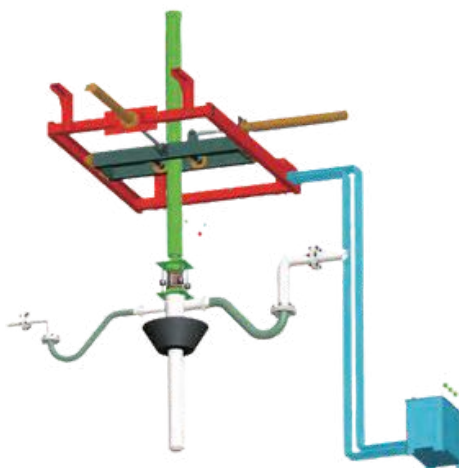
With Vapour Line



With vap or line and sealing cap



With sealing cone and heat tracing



Trusswork Type



Lined with PTFE



With Submersible Pump

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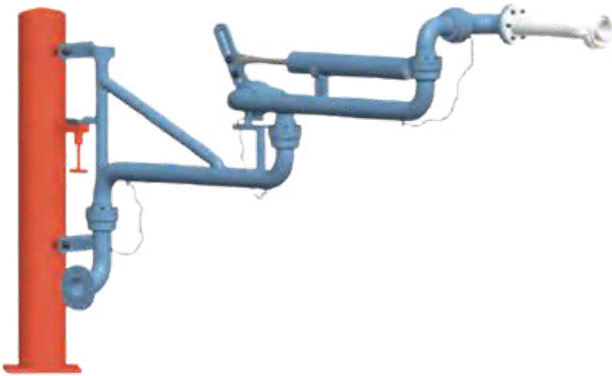
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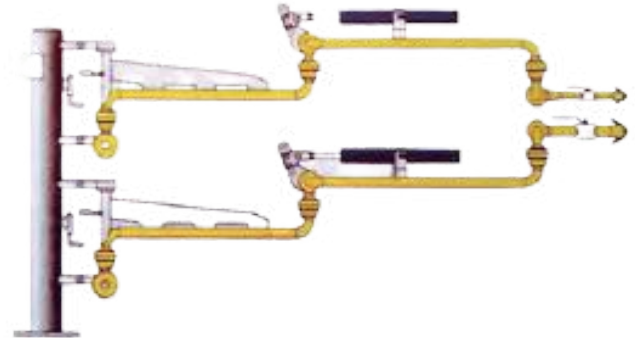
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Typical Structures Bottom Loading Arms



Single Liquid Line



With vapor line and quick coupler



Bottom loading arm with API coupler

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Automatic Loading Arm

Through pneumatic control systems, automatic alignment systems, intelligent gateway and cloud platform systems, automatic land loading arms can realise the automatic loading operation, greatly reduce the labor intensity of site operators, improve work efficiency and eliminate safety risks.

• Operation Method

- Local operation panel
- Wireless pendent or Mobile App
- Central control room

• Main Features

- Automatic alignment:

After the sensor on the loading arm captures the position of the manhole of the tanker, the position information will be transmitted to the central control room in real time. The operator in the control room can automatically control the movement of the loading arm through the solenoid valves, and complete the loading operation by adjusting the three-dimensional motion.

- Intelligent gateway and cloud platform:

To upload the real-time running status and information to the cloud service platform by using the Internet.

- Equipment maintenance personnel, safety management personnel, etc. can maintain and ensure the safe operation of equipment online in real time.



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LNG/Cryogenic Truck Loading Arm



• Main Data

Applicable Product: Cryogenic Ethylene, LNG, etc.
Nominal Diameter: DN50 DN100
Pipeline Material: 304L or 316L
Design Temperature: -196 100°C
Design Pressure: -0.06 2.0MPa

• Main Technial Characteristics

- Cryogenic components are all treated with liquid nitrogen to ensure the performance at cryogenic temperatures.
- The cryogenic joints all adopt no lubrication structure and use nitrogen purge raceway to keep the inside dry. It has both a main seal and secondary seal to ensure no leakage. The surface is machined by precise CNC machines to ensure the dimensional accuracy, and is precisely assembled to ensure smooth operation.
- Seals can be changed without dismantling the swivel joint.
- Hydrostatic, air-tightness, cryogenic tests and cold springs are strictly performed in the factory before delivery to ensure the quality.



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Design Data Sheet for Land Loading Arm

• Top Loading Arm

1	For	☐ Truck ☐ Train	17	Heating	☐ No ☐ Yes
2	Usage	☐ Loading ☐ Unloading			☐ Electrical ☐ Jacket
3	Operation	☐ Manual ☐ Pneumatic ☐ Hydraulic	18	Nozzle Location	☐ Top side ☐ Bottom side
4	Model		19	Stored Position (to Folling Stair)	☐ Left-handed (☐ 0°/ ☐ 45°)
5	Q'ty				☐ Right-handed (☐ 0°/ ☐ 45°)
6	Product Loaded		20	Standpost	☐ Yes
7	Working Temp.	°C			☐ No
8	Design Temp.	°C	21	Base Plate	☐ Standard
9	Working Pressure	MPa			☐ Other
10	Design Pressure	MPa	22	Platform Type	☐ Steel
11	DN (Liquid arm)	mm			☐ Concret
12	DN (Vapor arm)	mm	23	Platform Height (H)	mm
13	Pipeline material	☐ CS	24	Platform Rail Height (K)	mm
		☐ 304	25	Roof Height	mm
		☐ 316L	26	Inboard Arm Length (A)	mm
		☐ CS lined with PTFE	27	Outboard Arm Length (B)	mm
		☐ Others	28	Drop Pipe Length (C)	mm
14	Inlet flange code	☐ HG/T20592	29	Standpost center to platform edge (E)	mm
		☐ HG/T20615	30	Standpost center to tanker center (W)	mm
		☐ EN	31	Inlet flange to platfrom(F)	mm
		☐ ANSI	32	Min height of tanker manifold (H2)	mm
		☐ Others	33	Max height of tanker manifold (H1)	mm
15	Tanker Nozzle	☐ Open	34	Min inner diameter of tanker manhole	mm
		☐ Flange	35	Max inner diameter of tanker manhole	mm
		☐ Quick Coupler	Max operating range		
		☐ Sealing Cone	36	Range vertical to tanker (X)	mm
		☐ Others	37	Range parallel to tanker (Y)	mm
16	Paint Color		Others please specify:		

1	☐ Automatic Quantitative Loading System	6	☐ Outboard arm mechanical locking device
2	☐ Level Alarm System	7	☐ Outboard arm pneumatic locking device
3	☐ Grounding System	8	☐ Operating Platform
4	☐ Submersible Pump	9	☐ Folding Stair
5	☐ Telescopic Drop Pipe	10	☐ Drip Bucket

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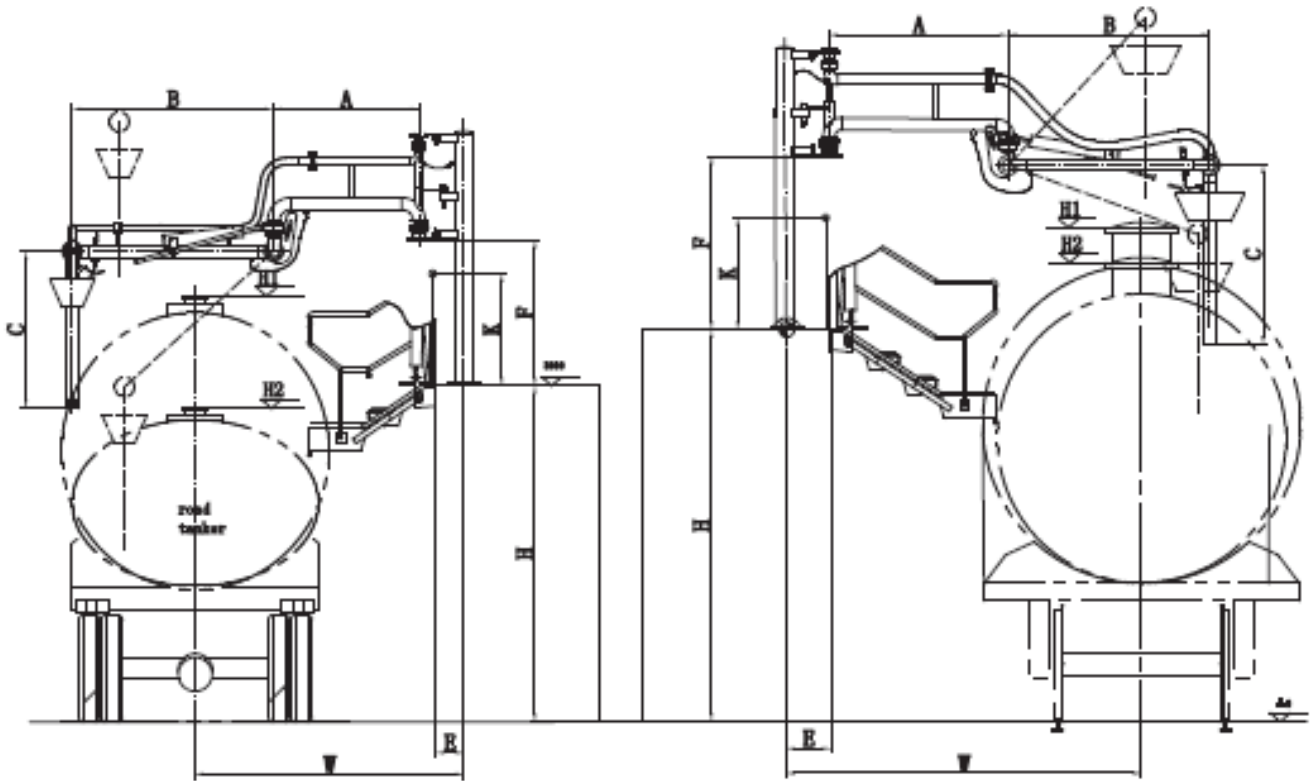
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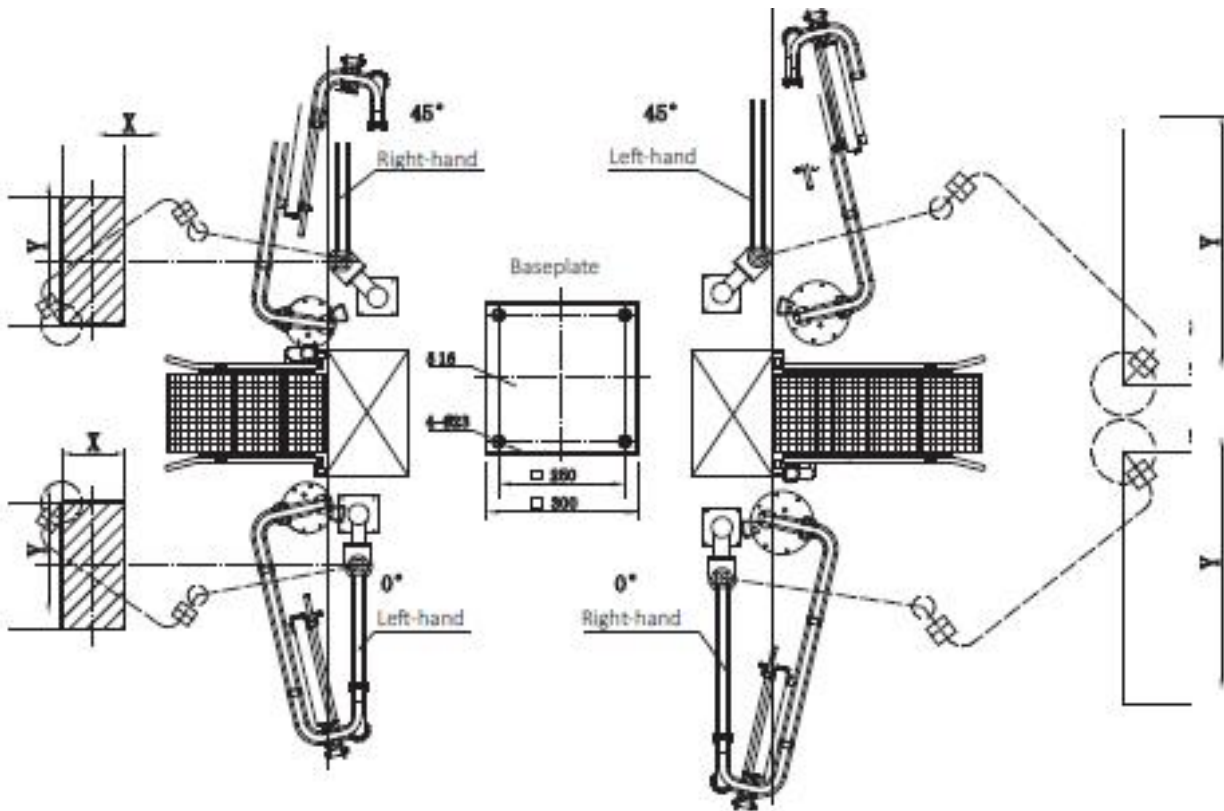


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Working position for road tankers

Working position for railcar tankers



Stored position for road tankers

Stored position for railcar tankers

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Design Data Sheet for Bottom Loading Arm

1	For	☐ Truck ☐ Train	16	Paint Color	☐ Silver Gray
2	Usage	☐ Loading ☐ Unloading			☐ Others
3	Model		17	Heat Tracing	☐ Electric ☐ Jacket ☐ Insulation
4	Q'ty		18	Inlet Nozzle Location	☐ Side ☐ Rear ☐ Others
5	Product Loaded		19	Stored Position	☐ Left-handed
6	Working Temp.	℃			☐ Right-handed
7	Design Temp.	℃	20	Standpost	☐ Yes
8	Working Pressure	MPa			☐ No
9	Design Pressure	MPa	21	Base Plate	☐ Standard
10	DN (Liquid Line)	mm			☐ Others
11	DN (Vapor Line)	mm	22	Standpost center to platform edge (E)	mm
12	Pipeline Material	☐ CS	23	Standpost center to tanker center (W)	mm
		☐ 304	24	Loading bay height (H)	mm
		☐ 316L	25	Max height of tanker manifold (H1)	mm
		☐ Lined with PTFE	26	Min height of tanker manifold (H2)	mm
		☐ Others	27	Liquid flange center to base (H3)	mm
13	Site Flange Code	☐ HG/T20592	28	Vapor flange center to base (H4)	mm
		☐ HG/T20615	29	Vapor inboard arm length (A1)	mm
		☐ SH/T3406	30	Vapor outboard arm length (B1)	mm
		☐ ANSI ☐ Others	31	Vapor drop pipe length (C1)	mm
14	Tanker Connection	☐ Flange	32	Liquid inboard arm length (A2)	mm
		☐ Quick Coupler	33	Liquid outboard arm length (B2)	mm
		☐ Dry Coupler	34	Liquid drop pipe length (C2)	mm
		☐ Others	35	Range perpendicular to tanker (X)	mm
15	Tanker Flange Code	☐ HG/T20592	36	Range parallel to tanker (Y)	mm
		☐ HG/T20615	Other Requirements please specify:		
		☐ Others			

Optional Accessories

1	☐ Automatic Quantitative Loading System	5	☐ Break-away Coupler
2	☐ Drop Pipe Gas Spring	6	☐ Manual Valve
3	☐ Drop Pipe 4-link Balance System	7	☐ Purging Line
4	☐ Grounding Device	8	☐ Drain Valve

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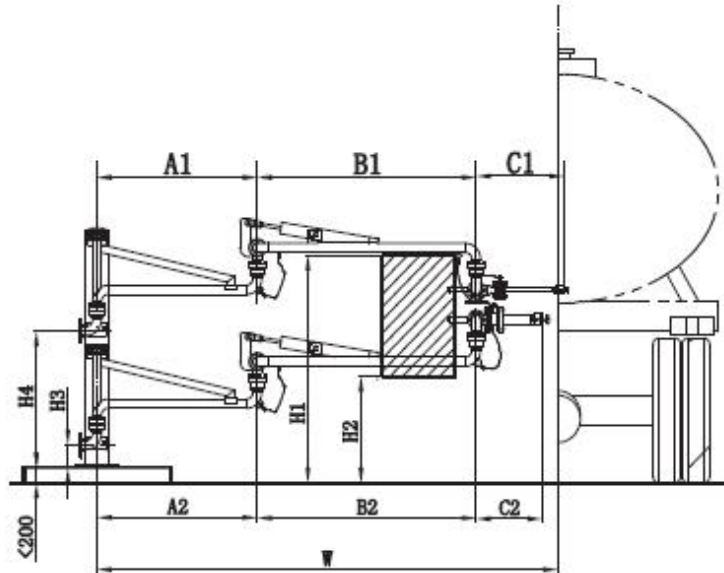
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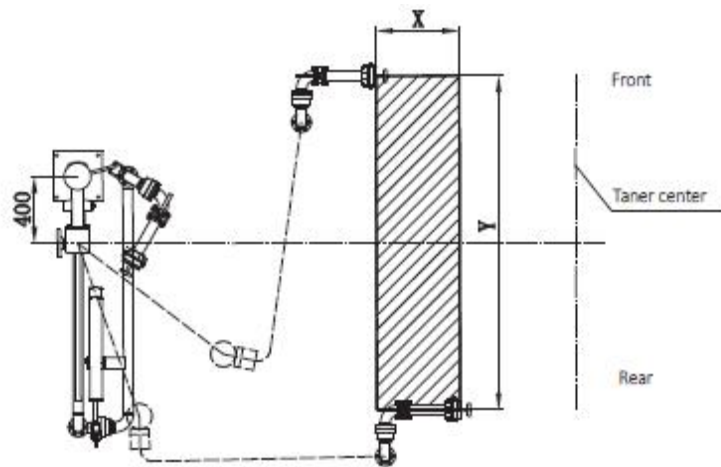


Operating Envelope For Bottom Loading Arm

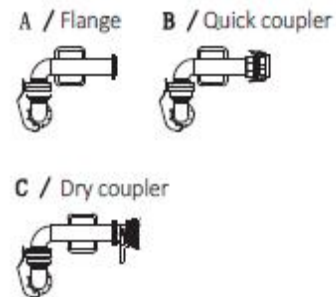


Code		Standard Value
W	Standpost center to tanker center	3500
H1	Max manifold height of tanker	1500
H2	Min manifold height for tanker	700
H3	Height of liquid flange centre	150/200
H4	Height of vapor flange center	900/1100
A1	Vapor inboard length	1100
B1	Vapor outboard length	1500
C1	vapor drop pipe length	600
A2	Liquid inboard length	1100
B2	Liquid outboard length	1500
C2	Liquid drop pipe length	450/600

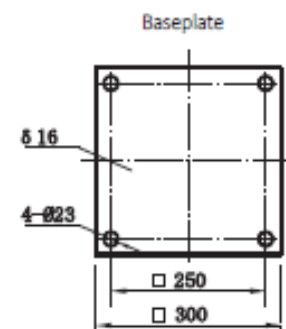
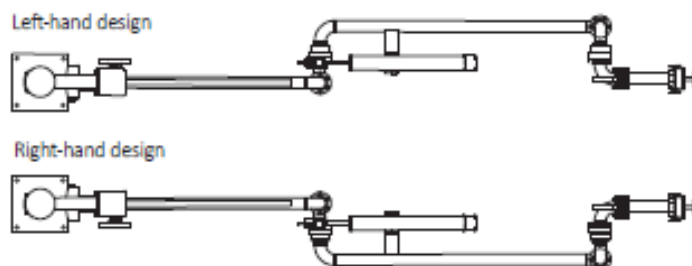
Working position for right hand designs



Manifold Types



Position for right hand designs



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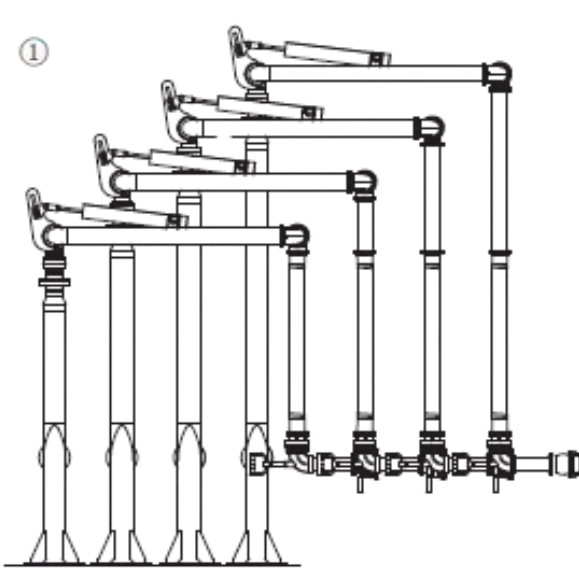
Bottom Loading Station

• Applications

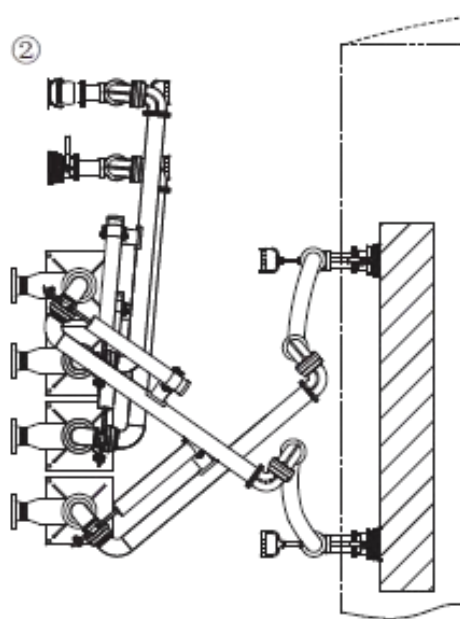
For loading and unloading various oil products on road/railway tankers with bottom manifolds. Especially suitable for loading and unloading oil products on occasions with high environmental protection requirements.

• Main Features

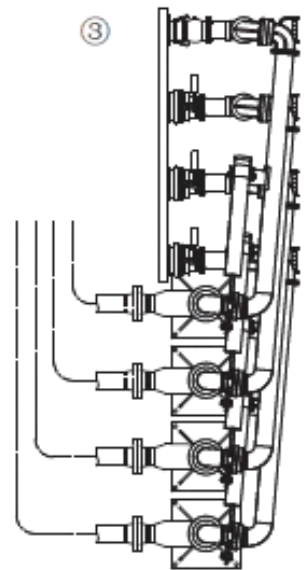
- Directly installed on the ground foundation, compact structure, small footprint, low investment.
- Terrace layout design, cross operation available, non-interference of arms.
- Steel and aluminum alloy materials are used to reduce the weight and improve the ease of operation.
- Upper designed outboard arm increases the ground activity space and facilitates the operation of personnel.
- Submerged loading, reduce oil volatilisation.
- Vapor return connection, to achieve zero emissions on site.
- Dry coupler connection, to achieve no leakages on site.



4 arms in one station: 3 liquid arms and 1 vapor arm



Cross connection



Stored position

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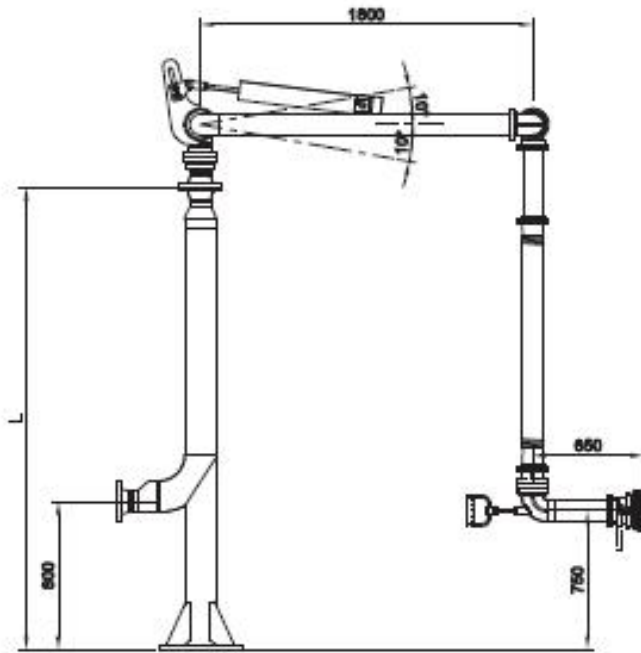
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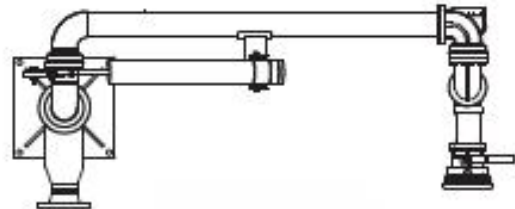


Standard Data

Nominal Diameter	DN100
Tanker Connection	API Coupler
Dimensions	See left diagram
MAWP	1.0 MPa

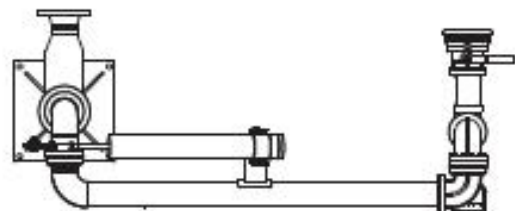
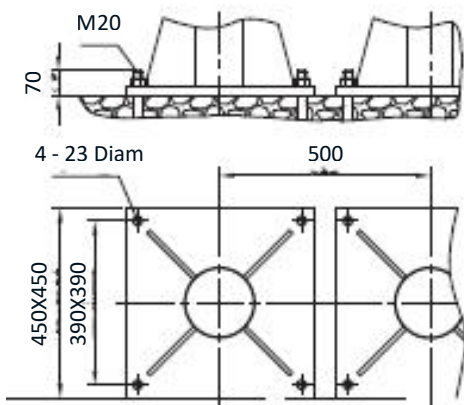
Typical Standpost Heights

L-1	L-2	L-3	L-4	L-5	L-6
2100	2500	2900	3300	3700	4100



Left Hand Design

Base Plate Dimensions



Right Hand Design

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ProFlow delivers premium engineered solutions for the safe, efficient and reliable transfer of bulk fluids. Our systems are trusted across the world in the most demanding industrial environments.



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SAFETY



RELIABLE
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Product specifications and information in this catalogue are subject to change without notice. For the most up to date information, please contact ProFlow.

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AM61M

MARINE LOADING ARM

Manual operation, double counterweights and self-support design, with features of easy operation, small dead weight, space occupation and dead weight.

Normally less than 8", applicable for inland river jetty and other small jetty.



SAFE & RELIABLE



EASY OPERATION



LOW DEAD WEIGHT



PRECISE MOVEMENT



LOW MAINTENANCE

MAIN DATA

ITEM	DATA
Nominal Diameter	DN80 – DN600 (3" – 24")
Design Pressure	-0.06 ~ 10 MPa
Design Temperature	-196 ~ 250 °C
Pipeline Material	CS, SS, LTCS, Lined or Sprayed with Plastics
Applicable Products	Oil Products, Liquefied Gases, Chemicals, Powders
Operating Mode	Manual / Electro-hydraulic

TYPICAL STRUCTURE

- | | |
|-----------------------------------|--------------------------|
| ① Outboard Arm Counterweight | ⑨ Drain Nozzle |
| ② Outboard Arm Counterweight Beam | ⑩ Base Plate |
| ③ Apex Swivel Joint | ⑪ Riser |
| ④ Inboard Arm | ⑫ Manual QCDC |
| ⑤ Inboard Arm Counterweight Beam | ⑬ Triple Swivel Assembly |
| ⑥ Locking Device | ⑭ Vacuum Breaker |
| ⑦ Counterweight | ⑮ Outboard Arm |
| ⑧ Inlet Flange | |

MODEL OPTIONS

MODEL	OPERATION	COUNTERWEIGHT	SUPPORT	FEATURES
AM61M	Manual	Double	Self-support	Easy operation, small dead weight and space occupation.
AM63M	Manual	Rotary	Separate-support	Easy operation and seal change, less load on pipelines. Range alarm system optional.
AM63H	Electro-hydraulic	Rotary	Separate-support	Easy operation and seal change, ERC and QCDC optional.
AM64H	Electro-hydraulic	Rotary	Separate-support	With vapor return line, ERC and QCDC optional.

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