

# A-FRAME LOADING ARM

A-Frame loading arms by Liquip provide superb flexibility and long reach bottom loading combined with an easy to use and comfortable design.

A-Frame loading arms are commonly used for bottom loading applications but can be used in top loading/ unloading installations.

A-Frame loading arms can be parked upright, near vertical position for convenient storage and allows the arms to be used on either side of the loading island.

## Features and Benefits

- Preferred where space limitations exist in the loading rack.
- Compact design allows A-frame arms to be mounted next to one another and can achieve arm cross-over for simultaneous compartment loading.
- A-frame arms can easily service both sides of the loading arm bay.
- Easily stored away from vehicles and can be mounted close to another arm for multiple arm applications.
- Allows for easy handling of the loading arm and can easily fit the standard API envelope.
- Easy to adjust design for elevation/tilting during loading or unloading.
- Uses Liquip's unique gas strut "Velvet Touch" technology.
- Custom designs are available to suit individual loading applications and configurations.



A-Frame Loading Arm

## Ordering Information

Loading arm survey forms are available for users to fill out. Survey forms detail all technical requirements for your loading arm needs. These forms can be downloaded once you login to the Liquip website.

Alternatively, you can contact Liquip to receive a loading arm survey form and discuss any specific requirements you may have.

## Associated Equipment

Riser Pipes	As Required	Drop Hose Covers	3576, 3577, 4683,4748
Balance Assembly	LBM800	Straight Swivels	VNS-A4, VNS-A4AVI
Gas Struts	4416 or 3008	Coupler Swivels	VNC-A4VG, VNC-A4AVI, VNC-A4DVG, VNC-A4T,
Horizontal Spool	LIQL219A Series	Spacer Spools	VSA4, VSS4
Intermediate Swivels	VNI-A4VG, VNI-A4AVI	Butterfly Valves	LBV450VGx
Drop Spools	LIQL229A Series or As Required.	Sightglasses	API-SG-150, BF4-SG-xxx
Drop Hoses	5639P	API/LYNX Series Coupler	LYNX85xxx, LYNX86xxx

## Technical Information - General Overhead Loading Arm

Overhead Loading Arm			
Materials	Mild steel / Aluminium / Stainless Steel	End connections	Balance Mechanism Inlet - 4" (DN100) 150 lb ANSI RF flange. Outlet Coupling - API Coupler
Design Pressure	1,000 kPa.	Counter balance type	Single or Dual gas struts.
Test Pressure	1,500 kPa.	Maximum coupling pressure	517 kPa working.
Temperature limits	-28°C to +90°C (-18°F to +200°F) - GFLT seals.	Primary seal materials	Viton™ Teflon™ and FFKM (Others on request).
Range of motion	Horizontal 360°, Vertical +15° to -15°.	Dust seal material	Buna Nitrile or HAN. (Others on request).
Typical Horizontal Spacing	600mm	Gasket material	Klingerite or Viton™ A. (Others on request).
Typical Vertical Spacing	450mm	Standard Configuration	1.8m or 2m reach. See technical specifications.
Typical Reach	Up to 2000mm	Typical no. of arms per bay	6

# A-FRAME LOADING ARM TECHNICAL SPECIFICATIONS

