MINE SITE/RAIL LOADING ARM

Liquip provides bottom loading mine site loading arm solutions for infrastructure projects, service vehicle and rail refueling/loading.

Liquip's mine site/rail arms are the sweet spot between ruggedness, dependability, functionality and performance.
Liquip considers end users specifications, to enable fast, safe and efficient refueling.

Liquip's mine site/ rail loading arms can be tailored to suit a variety of applications. The two most common options are

- Overhead style arm with riser pipe, LBM800 balance mechanism, hose and nozzle.
- Overhead style arm with riser pipe, heavy duty base swivel, hose and nozzle.

Mine Site/Rail Loading Arm

Features and Benefits

- Quick refuelling at flow rates up to 1,000 LPM.
- Reduce slip & trip hazards by removing hoses from the ground whilst also eliminating manual handling of heavy hoses.
- Easily manoeuvre the loading arm to facilitate fast and efficient connections.
- Designed to decrease wear and tear on hoses meaning less maintenance increases service life and ultimately reduces total cost of ownership.
- Can be shipped partially assembled for efficient and safe shipping whilst allowing for easy on site installation.
- Heavy duty yet versatile design to suit a variety of applications including fixed refuelling bays and mobile service vehicles.
- Painted to site specifications and suitable for extreme weather conditions.
- Can be supplied complete with hose and refuelling nozzle.
- Safety Breakaway can be integrated for a full drive-away protection system.

Option with LBM800 Balance Mechanism.

- Superior safety through the use of Liquip's unique balance assembly swivel design.
- Balance mechanism is greased for life.
- Uses Liquip's unique gas strut "Velvet Touch" technology for smooth operation over entire stroke of the loading arm.

Option with Heavy Duty Base Swivel.

- Simplified design for cost effective applications where optimal performance and integrated features are not required.

Technical Information - Mine Site / Rail Loading Arm

Mine Site / Rail Loading Arm			
Materials	Carbon steel / Aluminium / (Stainless Steel on request).	**End connections**	BInlet - 4" (DN100) ASME 150 RF. Outlet Coupling - High Flow Dry Break Refuelling Nozzle.
Design Pressure	1,000 kPa.	**Counter balance type**	Single or Dual gas struts.
Test Pressure	1,500 kPa.	**Primary seal materials**	Viton™ b70 or GFLT (Others on request).
Flow Rates	Typical flow rates are up to 1,000 LPM.	**Dust seal material**	Buna Nitrile or HAN. (Others on request).
Temperature limits	-28°C to +90°C (-18°F to +200°F) - GFLT seals.	**Gasket material**	Klingerite or Viton™ A. (Others on request).
Range of motion	Horizontal 360°, Vertical +15° to -15°.	**Safety Break-away**	Optional Stainless steel emergency release breakaway valve to protect against product spillage in the event of drive-away.
Typical Reach	2 metres (arm only). Further reach available with hose.		

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.

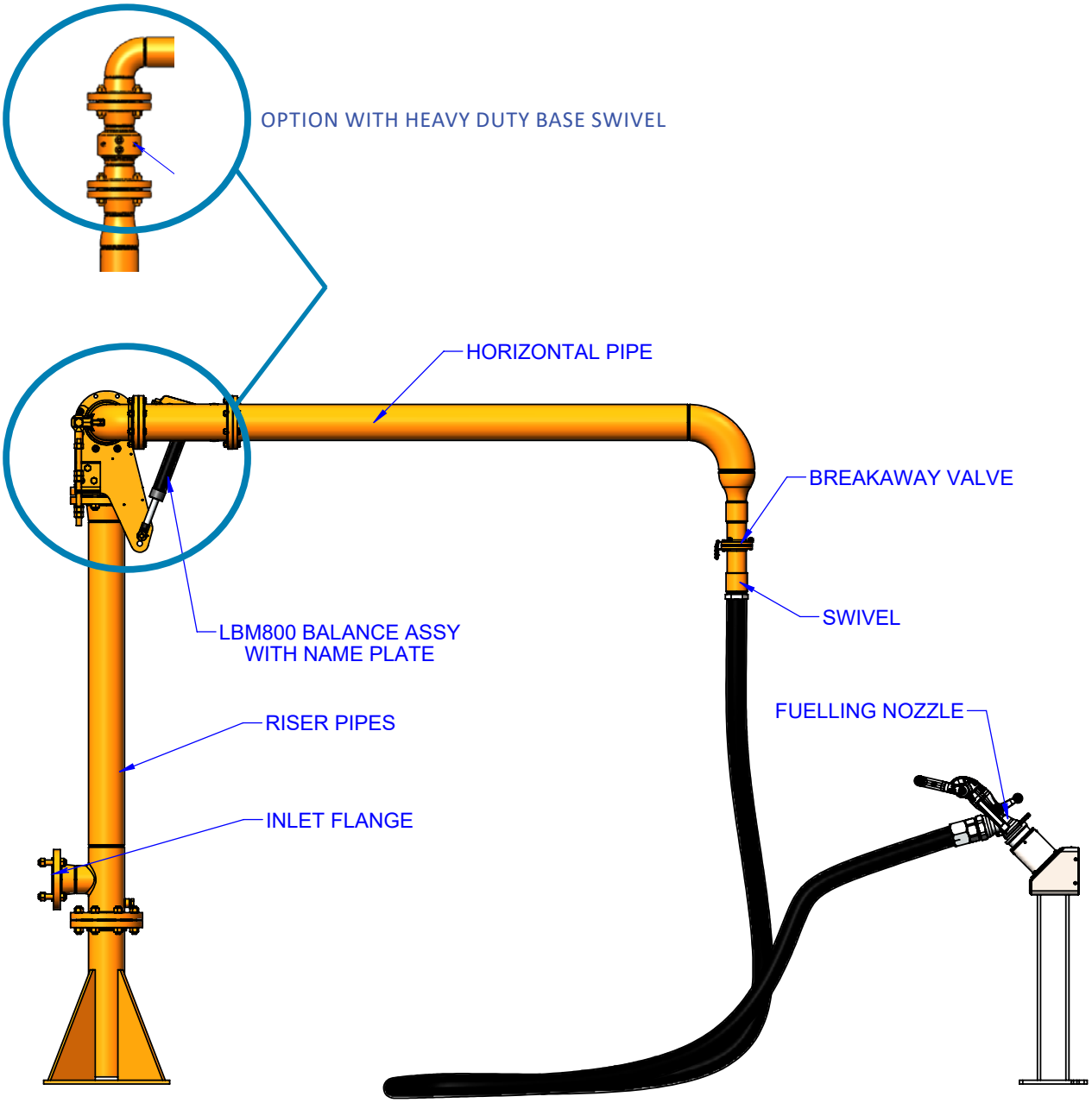
Alternatively, you can contact Liquip to receive a loading arm survey form and discuss any specific requirements you may have.

Associated Equipment

Inlet Flange	As Required	**Fuelling Nozzle**	As Required
Riser Pipes	As Required	**LBM800 Balance Assembly**	Optional
Breakaway Valve	As Required	**Heavy Duty Base Swivel**	Optional
Horizontal Pipe	As Required		

MINE SITE / RAIL LOADING ARM TECHNICAL SPECIFICATIONS

TOP VIEW



SIDE VIEW