

## Gas Strut - Liquid Balance Mechanism (LBM) Hose Loader

A new benchmark has been set for all bottom loading arms with the introduction of the LBM800. This state-of-the-art design is essential when you require safety and long service life with minimal maintenance.

The LBM800 provides effortless bottom loading in petrochemical distribution terminals through the use of the unique design known as the Velvet Touch.

The ability of 360° rotation in the horizontal plane allows the LBM800 to easily move from a parked to loading position, and to service vehicles on either side of the loading bay. While the vertical plane swivel allows users to position the coupler at different heights within the API envelope.



### Features:

- Velvet Touch provides smooth operation over the entire stroke of the loading arm
- Superior safety through Liquip's unique gas strut design
- Exceptional durability and minimal servicing requirements thanks to the best-in-class base swivel assembly and overall design
- Any unit can be easily configured for left hand, right hand, upward and downward configurations on-site
- Slimline drop leg bracket provides easy installation and compact overall size

### Benefits:

- Enhanced strength and ease of adjustment through a heavy-duty adjustment mechanism
- Downtime during installation is reduced by an all-flanged design
- Adjustable up/down stop that can be set with minimal effort
- Long reach capabilities



# Gas Strut - Liquid Balance Mechanism (LBM) Hose Loader

## Easily Adjust for Up or Down Feed, left hand or right hand:

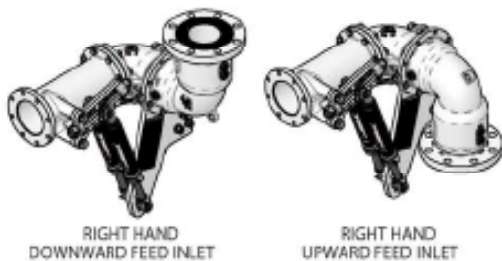
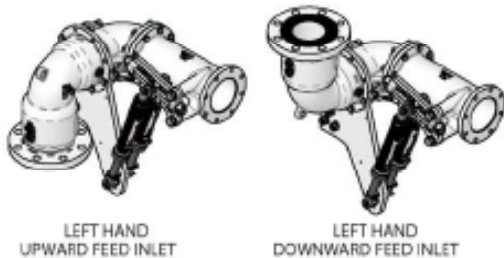
- Force adjustment is provided through spool piece adjustment bracket
- Three hole positions on the drop bracket provide angular adjustment
- Balancing the arm is achieved by changing strut positions
- Up/down stop is adjustable by changing position of the locking nuts on the rod

## Specifications

<b>Materials</b>	Carbon Steel/Aluminum
<b>Seals</b>	Low Temp Fluorocarbon
<b>Working Pressure</b>	145 psi (1000 kPa)
<b>Test Pressure</b>	217 psi (1500 kPa)
<b>Operating Temp</b>	-20° to 140°
<b>Up/Down Angular Movement</b>	-15° to +15° (from horizontal)
<b>Typical Horizontal Spacing</b>	24" (650 mm)
<b>Typical Vertical Spacing</b>	18" (450 mm)
<b>Typical Reach (radius)</b>	50" to 80" (1300 mm to 2032 mm)
<b>Typical No. of arms per bay</b>	up to 6

## Accessories

<b>Drop Spool</b>	4" Aluminum or Carbon Steel	As Required
<b>Drop Hose</b>	4" Rackmaster Composite, 80" OAL, TTMA Flanged Ends	L19080
	4" Braided Stainless Steel, 80" OAL, TTMA Flanged Ends	L19081
<b>Coupler Swivel</b>	4" Style 30 (90°) Swivel Joint with Maneuvering Handle TTMA Flanged Ends, Aluminum/ Low Temp Fluorocarbon	VNC-A4VG
<b>Butterfly Valve</b>	4" Full flow, Position-Locked Butterfly Valve	LBV450VGL
<b>Spacer Spool</b>	4" Loading Arm Coupler Spool, TTMA Flanged Ends, Aluminum 6" OAL	VSS4
<b>Sight Glass</b>	4" Acrylic Sight Glass, Tempered, Cast Acrylic	BF4-SG-25
<b>API Coupler</b>	4" API Bottom Loading Coupler	
	Manual Version:	1004D3-0402 (Fluorocarbon Seals)
	Semi-Automatic Version:	LYNX852 (Fluorocarbon Seals)



## Ordering Information

### Loading Arm Type

LBM = Liquid (Gas Strut) Balance Mechanism

### Orientation

RH = Right Hand  
LH = Left Hand

**L B M 3 2 F - 5 2 - 0 4 0 2 - R H**

### Feed

32 = Upfeed  
33 = Downfeed

### Reach

52 = 52" (1321 mm)  
60 = 60" (1524 mm)  
70 = 70" (1778 mm)  
80 = 80" (2032 mm)  
90 = 90" (2286 mm)

### Seal Type

02 = Fluorocarbon

### Size

04 = 4"

Distributed by:

