

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



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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

Accessories

MaterialsCarbon Steel/AluminumDrop Spool4" Aluminum or Carbon SteelAs RequiredSealsLow Temp FluorocarbonProp Spool4" Rackmaster Composite, 80" OAL, TTMA Flanged Ends19080Working Pressure217 psi (1500 kPa)Hose4" Rackmaster Composite, 80" OAL, TTMA Flanged Ends19080Operating Temp-20° to 140°4" Staided Stainless Steel, 80" OAL, TTMA Flanged Ends19081Up/Down Angular Spacing15° to +15° (from horizontal)Coupler Swivel4" Style 30 (90°) Swivel Joint with Maneuvering HandleYNC-A4VGTypical Horizontal Spacing24" (650 mm)Ewivel4" Style 30 (90°) Swivel Joint with Maneuvering HandleVNC-A4VGTypical Vertical Spacing18" (450 mm)Butterfly Valve4" Full flow, Position-Locked Butterfly ValveBV450VGLTypical Reach (radius)0" to 80" (1300 mm to 2032 mm)Spacer Spool4" Loading Arm Coupler Spool, TTMA Flanged Ends, Aluminum Butterfly ValveFul Coading Arm Coupler Spool, TTMA Flanged Ends, AluminumTypical No. ofup to 64" to 240 (100 (100 (100 (100 (100 (100 (100 (1						
SealsLow Temp FluorocarbonSpoolImage: Comparison of the space of t	Materials	Carbon Steel/Aluminum	Drop Spool	4" Aluminum or Carbon Steel	As Required	
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Test Pressure217 psi (1500 kPa)HoseSo or or L, Hinterhanged EndsL19081Operating Temp-20° to 140°4" Braided Stainless Steel, 80" OAL, TTMA Flanged EndsL19081Up/Down Angular Movement-15° to +15° (from horizontal)Coupler Swivel4" Style 30 (90°) Swivel Joint with Maneuvering HandleL19081Typical Horizontal Spacing24" (650 mm)Euterfly Valve4" Style 30 (90°) Swivel Joint with Maneuvering HandleVNC-A4VGTypical Vertical Spacing18" (450 mm)Butterfly Valve4" Full flow, Position-Locked Butterfly ValveLBV450VGLTypical Reach (radius)50" to 80" (1300 mm to 2032 mm)Spacer Spacen Spacen4" Loading Arm Coupler Spool, TTMA Flanged Ends, Aluminum 6" OALVSS4	Working Pressure	145 psi (1000 kPa)	Drop Hose	4" Rackmaster Composite, 80" OAL TTMA Flanged Ends	L19080	
Operating Temp-20° to 140°If a Braded Stamless Steel, and a Stable State Steel, and a State State Steel, and a State Sta	Test Pressure	217 psi (1500 kPa)		4" Praided Staipless Steel	1 10091	
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Typical Horizontal Spacing24" (650 mm)Image: SpacingTTMA Flanged Ends, Aluminum/ Low Temp FluorocarbonVNC-A4VGTypical Vertical Spacing18" (450 mm)Butterfly Valve4" Full flow, Position-Locked Butterfly ValveLBV450VGLTypical Reach (radius)50" to 80" (1300 mm to 2032 mm)Spacer Spool4" Loading Arm Coupler Spool, TTMA Flanged Ends, Aluminum 6" OALVNC-A4VGTypical No. ofup to 6Vol 2002 mmVol 2002 mm Vol 2002 mmVol 2002 mm Vol 2002 mmVol 2002 mm Vol 2002 mm	Up/Down Angular Movement	-15° to +15° (from horizontal)	Coupler Swivel	4" Style 30 (90°) Swivel Joint with Maneuvering Handle		
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Typical Reach (radius)50" to 80" (1300 mm to 2032 mm)Spacer Spool4" Loading Arm Coupler Spool, TTMA Flanged Ends, Aluminum 6" OALVSS4	Typical Vertical Spacing	18" (450 mm)	Butterfly Valve	4" Full flow, Position-Locked Butterfly Valve	LBV450VGL	
Typical No. of up to 6 6" OAL VSS4	Typical Reach (radius)	50" to 80" (1300 mm to 2032 mm)	Spacer Spool	4" Loading Arm Coupler Spool, TTMA Flanged Ends, Aluminum		
	Typical No. of	up to 6		6" OAL	VSS4	
arms per baySight4" Acrylic Sight Glass, Tempered,BF4-SG-25GlassCast Acrylic	arms per bay	l	Sight Glass	4" Acrylic Sight Glass, Tempered, Cast Acrylic	BF4-SG-25	
API API Bottom Loading Coupler			API Coupler	4" API Bottom Loading Coupler		
Manual Version: 1004D3-0402 (Fluorocarbon Seals)	STAR			Manual Version:	1004D3-0402 (Fluorocarbon Seals)	
Semi-Automatic Version: LYNX852 (Fluorocarbon Seals)				Semi-Automatic Version:	LYNX852 (Fluorocarbon Seals)	
LEFT HAND UPWARD FEED INLET DOWNWARD FEED INLET Ordering Information	LEFT HAND UPWARD FEED INLET	LEFT HAND DOWNWARD FEED INLET	Ordering Information			



RIGHT HAND DOWNWARD FEED INLET

RIGHT HAND

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UPWARD FEED INLET





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90 = 90" (2286 mm)

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