A-Frame Pipe (AFP) Bottom Loading Arm

StandardLine Loading Arms by OPW Engineered Systems raise the bar in quality and performance for the industry. Get OPW's best-in-class loading systems in pre-engineered sizes, materials and feed orientations with delivery in 20 days or less.

The AFP (A-Frame Pipe) Loader is a popular loading-arm configuration due to its flexibility and convenience of use. Ideal for lower riser heights and when crossover isn’t as important (one or two fueling lines). Similar to our AFH Loader, but utilizes piping in place of hose to simplify maintenance.

Features and Benefits:
- 3000 Series Swivel Joints
  - Simple, Proven Design
  - Carbon Steel/Aluminum Construction
  - Low-Temperature Fluorocarbon Seals
  - Wide Compatibility
- 790 EZ Adjust Counterbalance
  - Safe, Easy Spring Adjustment
  - Integral Upward, Downward Travel Stops
  - 5-Year Warranty
- Available with Lynx Bottom Loading Coupler
  - 3-Year Warranty
- 3” and 4” Sizes
- Stores In Upright, Near-Vertical Position
- Low Riser Mounting Heights

ALL STANDARDLINE ARMS FEATURE
- Fast Delivery – 20 Days or Less!
- Menu of Options to customize your arm
- Freight is included across continental U.S. & Canada
- Exclusive 3-Year Warranty included
A-Frame Pipe (AFP) Loader Dimensions*

StandardLine Terminal Configuration**

* Required to accommodate StandardLine Offering. Other options are available upon request.

** Left-hand configuration shown. Right-hand configuration would be mirror image with riser elevations going up from left to right. Contact OPW for layout assistance.
Build Your Standard AFP Arm

1. Fill in the corresponding code for your selections.
2. Add accessories by filling in the appropriate corresponding number for each option.

Example

<table>
<thead>
<tr>
<th></th>
<th>AFP</th>
<th>CA</th>
<th>60</th>
<th>UR</th>
<th>0402</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
</tr>
</thead>
</table>

Arm Style: (AFP)
A-Frame Pipe

Material Options: (CA) Carbon Steel/Aluminum

Dimension Options: (60) 60" x 60"

Orientation:
(UR) Upfeed/RH
(DR) Downfeed/RH
(UL) Upfeed/LH
(DL) Downfeed/LH

Size and Seal Type:
(0302) 3" with fluorocarbon
(0402) 4" with fluorocarbon

1. Drop Spool
   0 - Not Applicable for AFP

2. Drop Hose
   0 - Not Applicable for AFP

3. Coupler Swivel
   0 - Not Applicable for AFP

4. Isolation Valve
   0 - Isolation Valve by Others
   1 - 4" Full Flow (LBV 450VGL)

5. Spacer Spool
   0 - Spacer Spool by Others
   1 - 4" x 8" OAL, TTMA FLG (VSS4)
   2 - 3" x 4" Spacer Spool, 3" MNPT x 4" TTMA (H30734)

6. Site Glass
   0 - Site Glass by Others
   1 - 4" Acrylic (BF4-SG-25)

7. API Coupler
   0 - API Coupler by Others
   1 - 1004D3-0402
   2 - Lynx Coupler (852VG)

8. Assembly, Testing & Boxing (ATB)
   0 - No ATB
   1 - ATB Included
   2 - ATB, Export
### Technical Features

<table>
<thead>
<tr>
<th>Component</th>
<th>Material/Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet Flange</td>
<td>4&quot; 150 ANSI ASTM A105</td>
</tr>
<tr>
<td>Inlet Swivel</td>
<td>Carbon Steel, ASTM A536</td>
</tr>
<tr>
<td>Primary Arm Piping</td>
<td>Sch 40 Aluminum, ASTM B241</td>
</tr>
<tr>
<td>Apex Swivel (p/n 3640FT-0402)</td>
<td>Aluminum, ASTM B26 A356 T6</td>
</tr>
<tr>
<td>Coupler Swivel (p/n 3655FTH) (2-Plane)</td>
<td>Aluminum, ASTM B26 A356 T6</td>
</tr>
<tr>
<td>Isolation Valve</td>
<td>Cast Aluminum/Fluorocarbon</td>
</tr>
<tr>
<td>Spacer Spool (p/n VSS4)</td>
<td>Cast Aluminum, AA601</td>
</tr>
<tr>
<td>API Coupler (p/n 1004D3, Lynx852VG)</td>
<td>Aluminum/Fluorocarbon</td>
</tr>
</tbody>
</table>

### Additional Information

- **Weld Procedure**: Per the ASME Boiler & Pressure Vessel Code Section IX
- **Radiograph/X-Ray**: Per OPW Standard, 5% random/factory lot
- **Testing**: All assembled Loading Arms shall be tested to 1.5X the rated design pressure.
- **Surface Treatments**: All Carbon Steel components to be protected with a 2-part paint process. Aluminum components to be unpainted.
- **Lubricant**: OPW 880 High-Performance Synthetic Lubricant
- **Gasketing**: KlingerSil C5400
- **Warranty**: Standard warranty of three years after date of invoice shall apply. LYNX API Coupler warranty to be three years after shipment from factory. 790 Counterbalance warranty to be five years after shipment from factory.
- **Freight**: All shipments are F.O.B Factory Lebanon, OH. Full freight is allowed on surface transportation within continental United States and Canada.
- **Factory Assembly, Testing & Boxing (ATB)**: If this option is selected, Loading Arm would be fully assembled, tested and shipped in protective wooden crate. **Note**: It may be necessary to ship Loading Arm in sections to accommodate crating, shipping and rigging. Arm will be shipped as fully assembled as possible.

### RECOMMENDED SPARE PARTS LIST**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Where Used</th>
<th>Qty/Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000RK-0402</td>
<td>3000 Series Swivel Seal Kit, 4&quot; Fluorocarbon</td>
<td>All Swivels (Counterbalance, Apex, Coupler Swivels)</td>
<td>5</td>
</tr>
<tr>
<td>1004D3SRK-0402</td>
<td>Coupler Seal Repair Kit, 4&quot; Fluorocarbon</td>
<td>1004D3-0402 (API Coupler)</td>
<td>1</td>
</tr>
<tr>
<td>API850VGSK</td>
<td>Coupler Seal Repair Kit, 4&quot; Fluorocarbon</td>
<td>Lynx852VG (API Coupler)</td>
<td>1</td>
</tr>
</tbody>
</table>

* Estimated weight for entire Loading Arm (72" Reach). Weight can vary depending on selected options.
** Other seal kits/materials available upon request.
† '20 Days or Less' refers to twenty working days.