# API BOTTOM LOADING ARM HSL-TYPE

OPW's most popular Terminal Bottom Loading Arm, the HL/HSL is a proven performer in Oil Terminals worldwide.

It's simple, yet robust, design has provided decades of reliable service. The arm is designed to accommodate specifically for API-RP 1004 bottom loading configurations allowing multiple tank truck compartments to be filled simultaneously.

OPW bottom loading arms are available in many different configurations to accommodate specific customer requirements.

## Dimensions (standard)*

| | |
|---|---|
| Primary arm | 1800mm |
| Drop hose assembly | 2570mm - 5770mm |
| End assembly | 465mm |

## Design Pressure/Temperature**

| | |
|---|---|
| Design Temperature | -20 to +100°C |
| Design Pressure | 10 Bar |
| MAWP | 5 Bar |

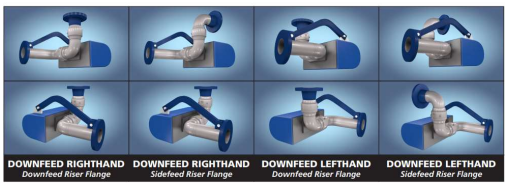
## Flow Rate M³/Hr***

| | |
|---|---|
| Recommended Maximum | 3" \| dn80 \| 90 m³/h |
| | 4" \| dn100 \| 135 m³/h |

## Features and Benefits

- **Proven design** OPW loading arms are in use at major oil terminals worldwide
- **Easy to handle**, smooth operation
- **All flanged construction** for ease of maintenance
- **Swivels** equipped with grease nipple
- **Durable** construction
- **Pre-balanced** at the factory to minimise installation and commissioning time
- **Standard Materials** of construction Carbon steel, Aluminium
- **High quality** Composite Drop Hose
- **Equipped with** OPW's unique API semi-automatic jump on model LYNX850VG
- **Wide range** of swivel seal materials available
- **50 years' experience** in fluid handling equipment
- **Possibility of 5 different products** and 1 vapor line loading the same time
- **Design standard** API RP1004, EN13480
- **Simultaneous loading** of multiple products

## Configurations


## Additional accessories

Include but are not limited to: position detection; parking lock, check valve; sight glass; break away coupler; rack hose cover and many more, please consult factory for information and availability. Overfill prevention & ground verification controllers are required when bottom loading: ask for OPW-Civacon rack electronics!

* Other dimensions on request

** Maximum pressure to operate API couplers and depending on materials

*** The most effective method of reducing the accumulation of static charges in piping systems is through proper pipe sizing to keep liquid velocities low. A recommended maximum velocity in piping system is 4,5 m/sec. Based on this we give the recommended flow rate.