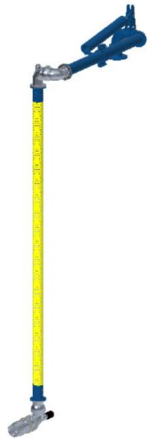


## VAPOUR BOTTOM UNLOADING ARM VSL-TYPE

Our most popular Terminal Vapour Bottom Unloading Arm, the VL/VSL, is a proven performer in Oil Terminals worldwide.

It's simple, yet robust, design has provided decades of reliable service.

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



### Dimensions (standard)\*

Primary arm	1800mm
Drop hose assy	3400mm
End assy	465mm

### Design Pressure/Temperature\*\*

Design Temperature	-20 to +80°C
Design Pressure	0,5 Bar
MAWP	0,5 Bar

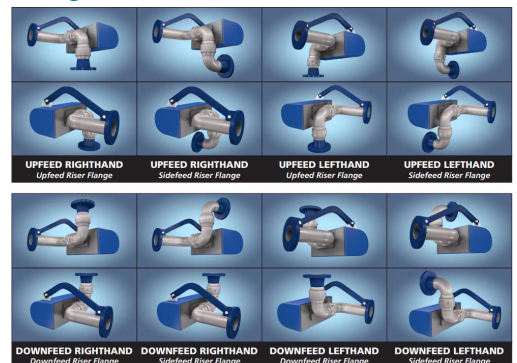
### Flow Rate M<sup>3</sup>/Hr\*\*\*

Recommended Maximum	3"   dn80   90 m <sup>3</sup> /h
	4"   dn100   135 m <sup>3</sup> /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** 633CPP Vapour coupler
- **Wide range** of swivel seal materials available

### 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.