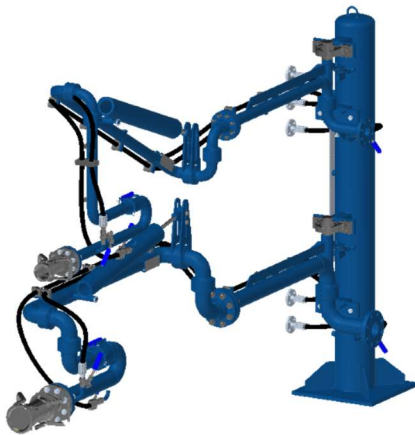


## BOTTOM AND TOP LOADING ARMS FOR LIQUEFIED GASES

The comprehensive range of OPW top and bottom loading arms for liquefied gases are designed to offer maximum flexibility and safety during (off)loading operations. Applications are found in the transfer of LPG, Gas condensate and similar media into railcars or tank trucks. Connections can be made at the rear, side or top. Typically consisting of a product and vapour arm the set is mounted on a stand post. A set generally consists of a 3"/dn80 product arm and 2"/dn50 vapour arm. For higher throughputs a 4"/dn100 product arm with 3"/dn80 vapour arm is available.

Shut-off or loading valve, purge or relief line, safety break away coupler as well as position indication and parking lock are often selected as useful options. Coupling systems to accommodate any customer standard are available.



### Dimensions (standard)\*

Boom arm	1500mm
Primary arm	1500mm

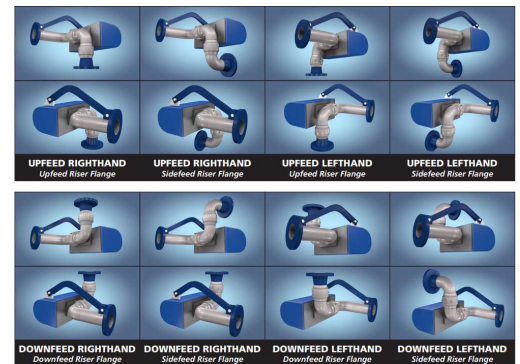
### Design Pressure/Temperature\*\*

Design Temperature	-20 to +100°C
Design Pressure	40 Bar
MAWP	15 Bar

### Features and Benefits

- **Dimensioned** to suit customers working envelope
- **Easy to handle**, smooth operation
- **Compact storage** when not in use
- **Balanced end swivel assembly** for easy handling
- **Swivels** equipped with grease nipple
- **Durable construction**
- **Available in 2" / dn50, 3" / dn80, 4" / dn100**
- **Inverted** intermediate swivel and/or inlet orientation possible
- **Boom arm** can be made with upwards or downwards slope
- **Wide range** of swivel seal material available
- **Pre-balanced** at the factory to minimise installation and commissioning time
- **Alternative materials** of construction 316/316L Stainless Steel

### 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 and depending on materials