KANON
LOADING EQUIPMENT

MLA 260

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Consists of:

- Self-bearing product piping

Suitable for:

- All products >-50° C

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Caracteristics:

The MLA 260 is a field proven marine loading arm which can be **manually** or **hydraulically** operated.

Cost effectiveness & simplicity have been major parameters of this model without sacrificing **functionality**.

The MLA 260 is designed around **self-supporting rigid welded structures**, absorbing all possible forces such as : self & fluid weight load, pressure & wind load …

That results in a **smaller baseplate** which in some cases provides a drastic benefit.

Balancing is provided by means of a simple **pantograph** type 'mechanical link' **rotating counterweight system**.

All these special cares ensure **smooth operation** with **minimum maintenance**.

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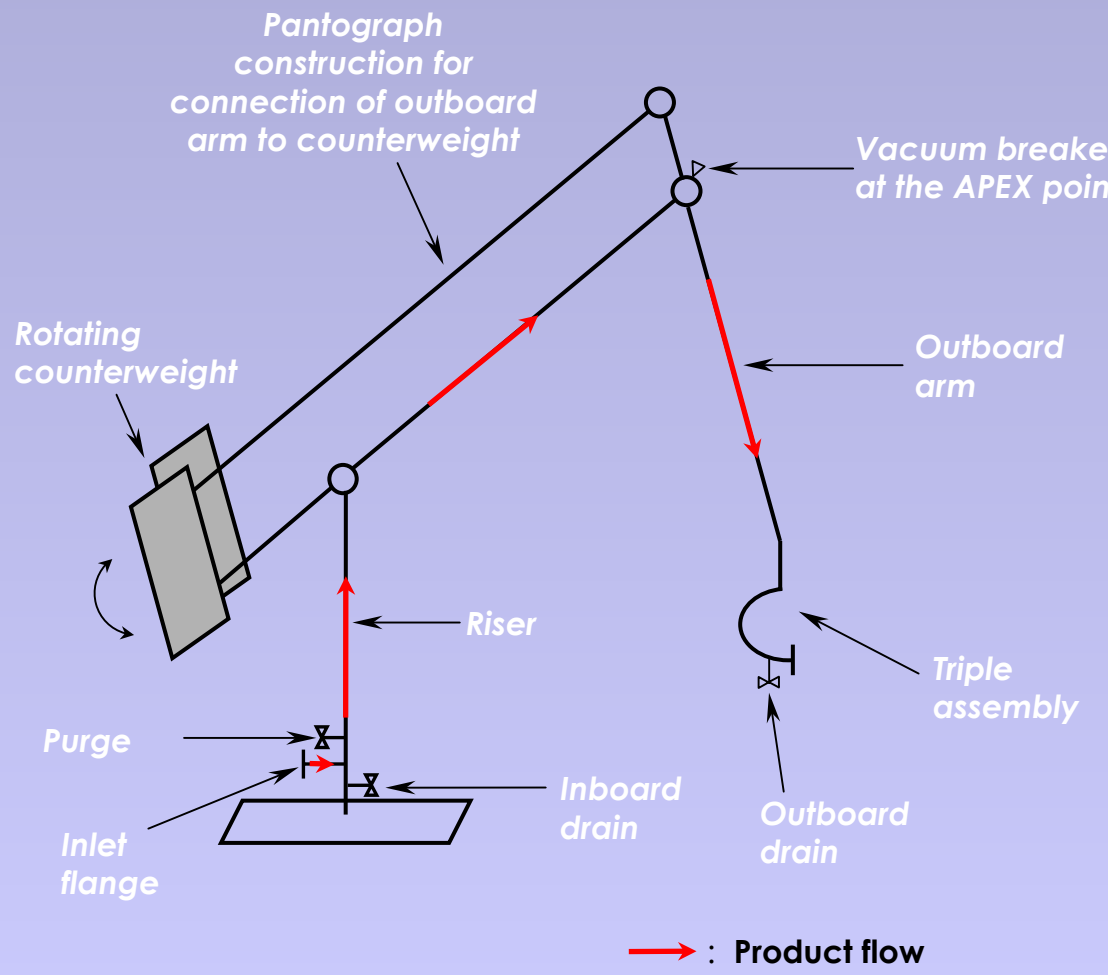
Merits of pantograph balancing system for Marine Loading Arms:

- **Lower maintenance costs**, due to no cables and main bearings, which need to be checked regularly
- Pantograph is rigid and therefore no influence on balance during operation.
- Suitable for larger diameters.
- Larger dimensions possible, thus larger operating envelopes
- Slim and **Proven** design
- Less weight (lower baseload and costs)
- Less wind load (<50%)
- In compliance with **OCIMF** rules



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MLA 260 in single inboard arm configuration

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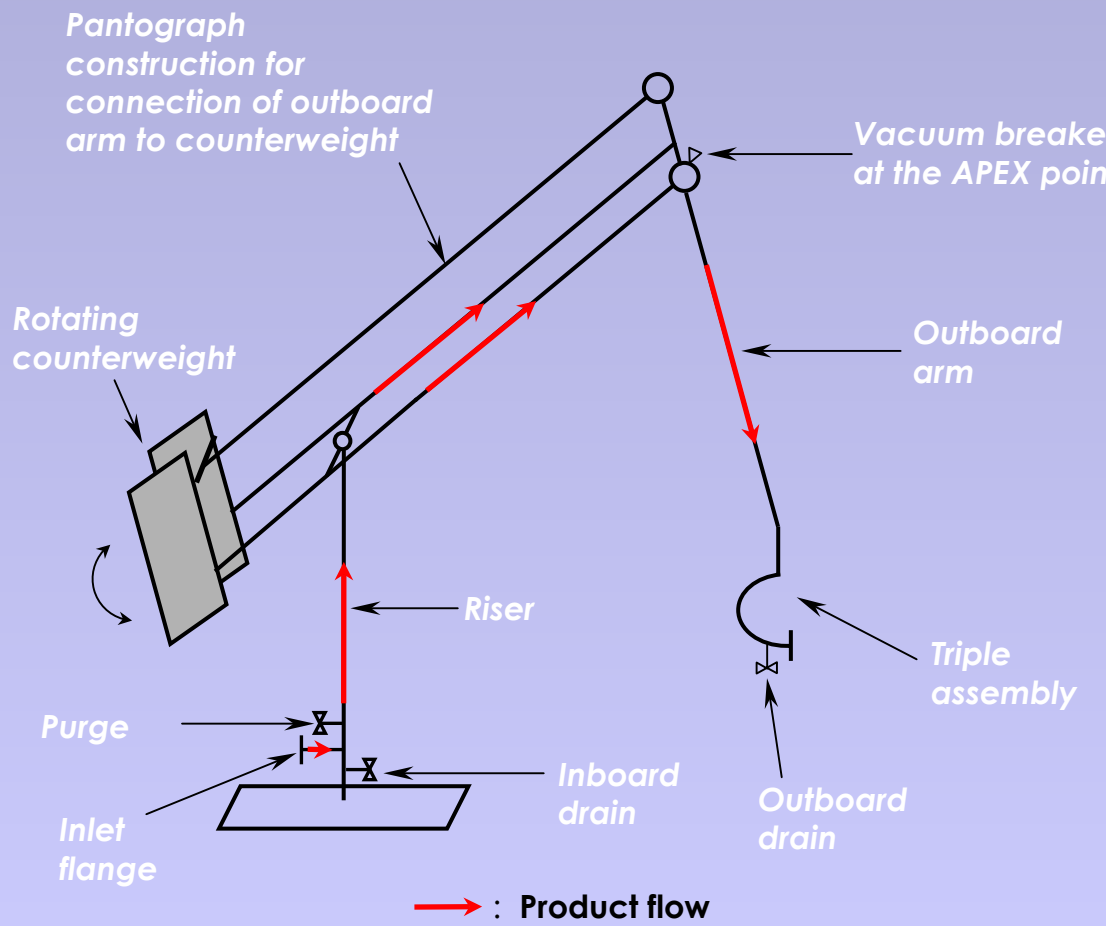
The Kanon Marine Loading arms are designed with a double inboard arm, which offers additional advantages:

- Symmetric design, thus symmetric loads
- Almost no bending moment on baseplate due to deadload
- Less moments on jetty, which means lower construction costs jetty.
- Apex acts as a fluid damper



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MLA 260 in double inboard arm configuration

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Configuration with double inboard arm and separate lines for liquid & vapour

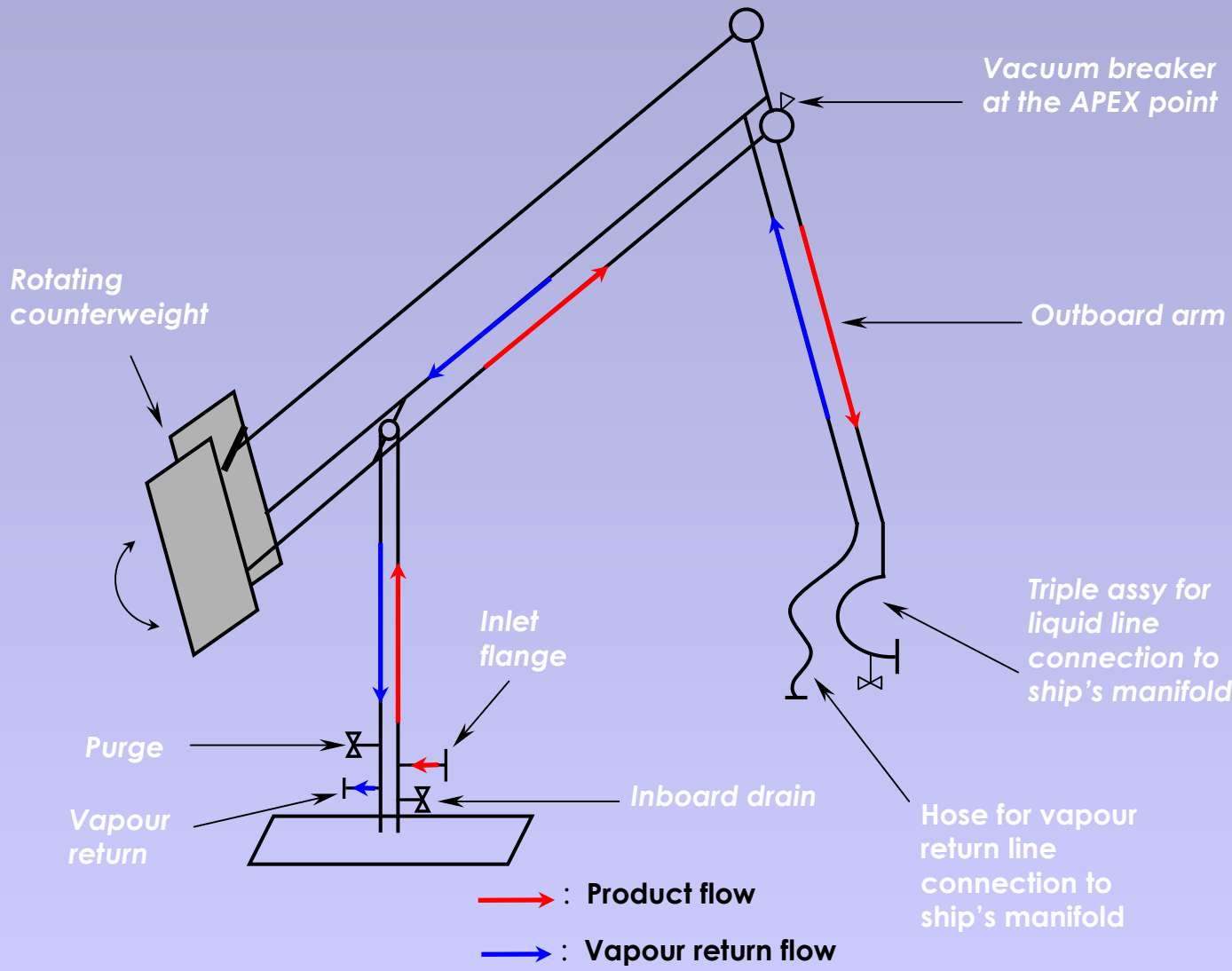
- Allows fully closed product transfer

⇒ Suitable for all products > -50° C which require a vapour recovery solution *(LPG, Hydrocarbons...)*

⇒ Allows to recover all product

OR

⇒ to recover vapour in a special filling tank



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MLA 260 in double inboard arm configuration with two separate lines, for liquid & vapour

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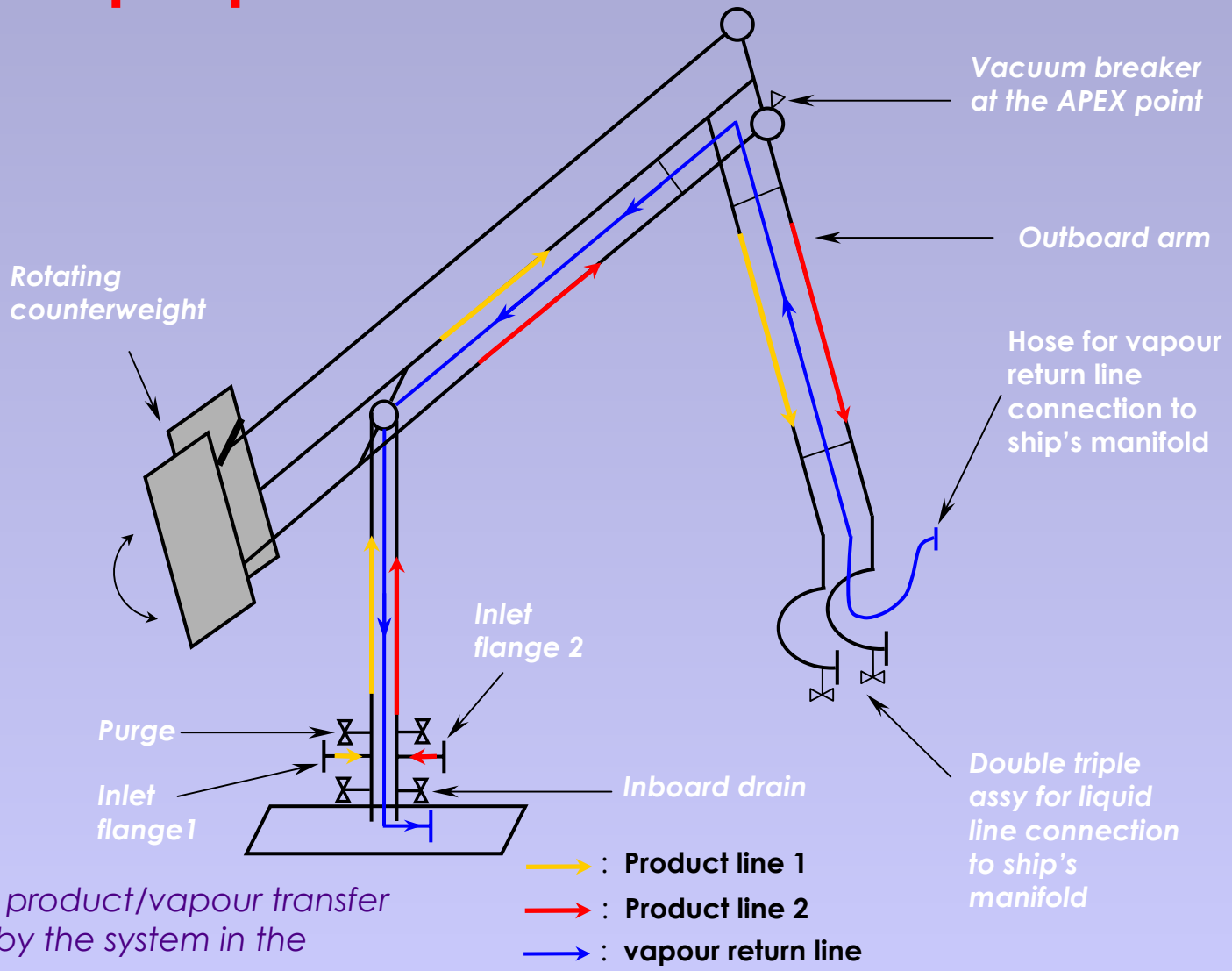
Multiple product MLA

- MLA 260 with double inboard, two separate lines for liquids and one piggy-back vapour line.

⇒ Allows transfer of multiple product* within a closed loading situation with only one common MLA



** Only one product/vapour transfer is allowed by the system in the same time*

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MLA 260 with two separate lines for products & one piggy-back vapour line