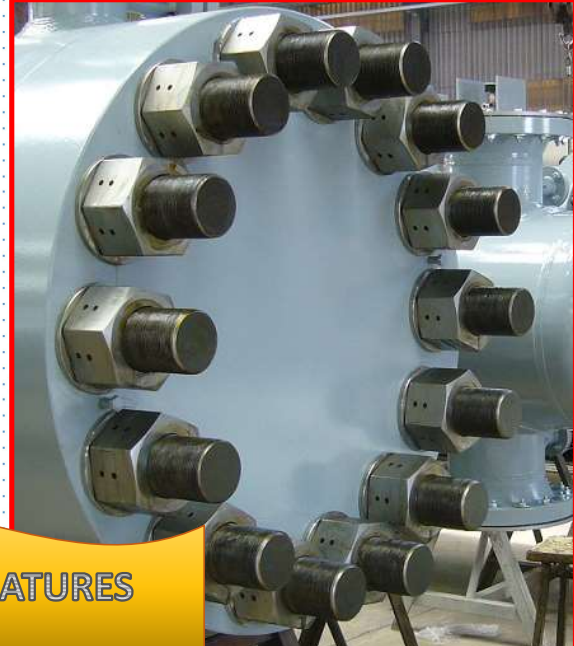


VILLA SCAMBIATORI BREECH-LOCK EXCHANGER

MAIN FEATURES AND APPLICATIONS

BREECH- LOCK VS. CONVENTIONAL WELDED DIAPHRAGM EXCHANGER



MAIN FEATURES

- Same pressure, higher temperature, same diameter: **SMALL BOLTS**
 - The pressure is resisted by the **threaded portion of the channel**.
 - The bolts are only designed to seat the channel gasket.
 - **No welded parts**, so in case of opening no need of grinding and re-weld
 - The bolts circle is coincident with the gasket diameter. As it isn't subject to additional bending moment exerted by the bolts, the channel cover is **thinner**
 - No **threaded holes** in the channel forgings
- Same pressure, lower temperature, same diameter: **BIG BOLTS**
 - The bolts are designed to resist the pressure: **that's why they are so big**
 - As sealing parts are **welded**, you need to grind for opening and weld again to reassemble the exchanger.
 - The channel cover is **bigger** than in the Breech-Lock Exchanger, as it is subject to bending moment exerted by the bolts.
 - There are **threaded holes** in the channel forgings

MAIN ADVANTAGES

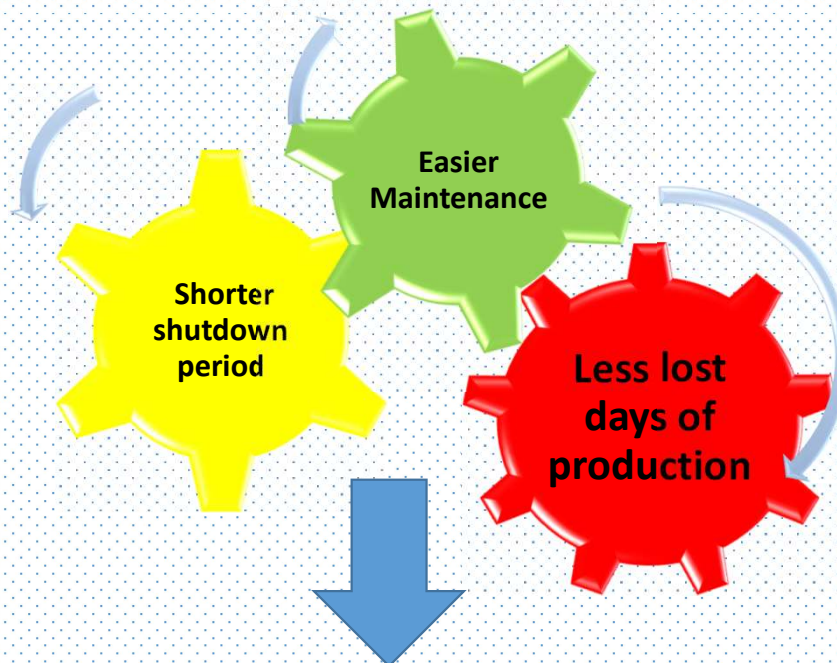
- In case of leakage, it is possible to seat the internal tubesheet gasket with the unit in operation.
- There is no need to cut any part during the dismantling of the closure.
- There is no need to weld any part during the closing of the equipment.
- There is no need of a bolts tensioner during the dismantling or the closing of the equipment as bolts work in compression.
- Maintenance is quicker and requires less specialized personnel than for a conventional exchanger

MAIN FEATURES AND APPLICATIONS

MAIN APPLICATIONS

- **Hydrocrackers** and **Hydrotreaters** (these are by far the most common applications)
- **Gas Compression** (on-shore, off-shore and marine)
- Or whenever high pressure is present and/or frequent opening of the joint is required.

Having a very reliable and tight type of sealing and being maintenance friendly, the Breech Lock type closure finds its most suitable applications in plants where High Pressure is present.



Breech-lock Exchanger

Do you wish to know more about the technology? Please contact:

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