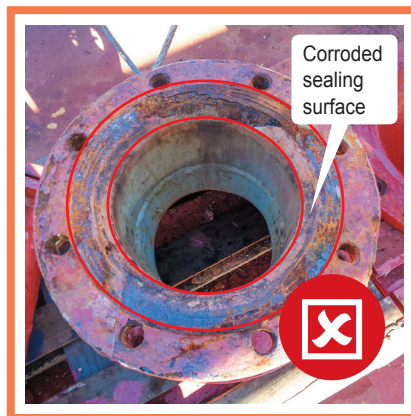


Safe Manifold Operations

(Applicable for tankers only)

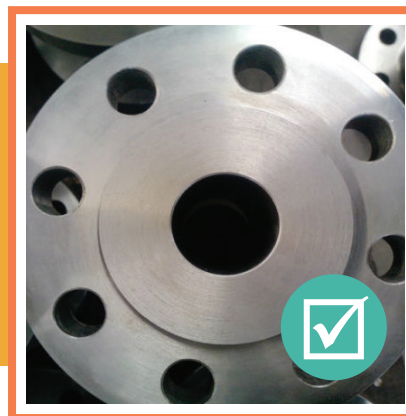
Poster
023

Cargo Equipment Housekeeping



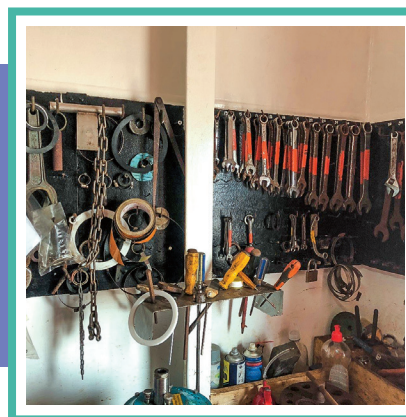
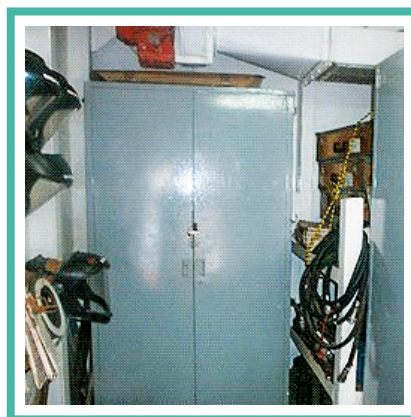
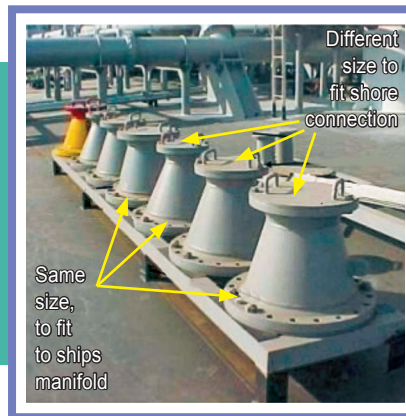
Corroded
sealing
surface

**Prior usage inspect
sealing surfaces**

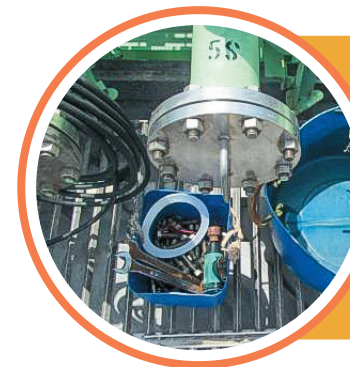


Proper Stowage Reducers & Connectors

Cargo reducers should be properly marked and secured. Reducers should either have blind flange or should be covered with canvas.



Safety Checks for Cargo Operations



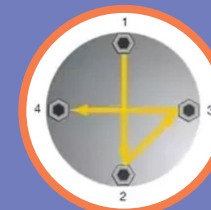
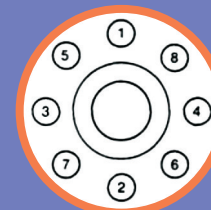
1. Proper tools and housekeeping, half cut drums, spare gaskets should be used.
2. Air/N2 line should be available for blowing of cargo lines/hoses prior disconnection.
3. During pigging/blowing, keep manifold monitored by responsible person
4. Prior disconnection, lines drained properly and well blown.
5. Proper type and size of gasket should be used.



**Bolts must have at least 3
threads visible, after nut is
fully tightened**



Sequence of Tightening Bolts



1. Manifold pressure testing prior cargo operations.
2. While loading/discharging/Tank cleaning of any corrosive/toxic cargo, usage of spray shields or splash guards is a must. During manifold connection/disconnection crew should wear appropriate PPE as listed under TGP 1.2.3 A1.

