

SYSTEM AND METHOD OF ALIGNMENT FOR AN AUXILIARY LINES HYDRAULIC COUPLING

ABSTRACT

A system for aligning an auxiliary line connection in a termination assembly of a marine riser assembly includes a terminal block (30) secured to an outer diameter of a termination ring (18). The terminal block has a piston housing (32) that extends through a sidewall of the termination ring. A ring adapter (24) has an outer diameter sized to engage an inner diameter of the termination ring when a shoulder of the ring adapter is landed on a load shoulder of the termination ring. A moveable floating ring assembly (52) is retained within the piston pocket (50) of the ring adapter. A piston (40) housed within piston housing is moveable between a retracted position where an outer end of the piston is spaced apart from the floating ring assembly, and an extended position for forming a sealed auxiliary path from the terminal block to the ring adapter.

[FIG.2]