

# LIGHTWEIGHT TA CAP

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## Technical Data / Specifications

Aluminum construction

ROV Friendly

Field Proven Design (multiple systems being used in the GoM)

Cost Effective

Deployed by ROV (no fast line or tugger required)

API 170 single port manifold

Made to order for specific well head profile

3 coat Carboline paint with extra top coat

Weight: 75 lbs



## Overview

As a means of protecting subsea wellheads, subsea equipment manufacturers devised a cap that could be lowered and locked on to the wellhead, providing a sealed void that could then be pumped with corrosion fluid by ROV intervention. These caps were constructed of steel, thus the weight was such that ROV installation and removal was negated and required topside winch, air tugger or use of Crane fast line.

Oceaneering Intervention Engineering devised an ROV friendly Light Weight TA Cap to resolve the weight, installation deck equipment needs and ROV inoperability. This cap is constructed of aluminum for weight benefit: at only 75lbs in water, the ROV is able to deploy and recover with out the need for topside support equipment. A three (3) coat Carboline paint system with extra topcoat, along with Delrin inserts, ensures that the cap is isolated from the wellhead to eliminate corrosion due to galvanic reaction. Four (4) Stainless Steel T-handles with Delrin shoes secure the TA Cap to the wellhead in order to prevent metal-to-metal contact with the wellhead. Once secured, the ROV can pump required corrosion inhibitor fluid in to the TA Cap. A 5 psi check valve ensures that water is fully displaced by the corrosion inhibitor fluid, once full inhibitor fluid is seen visually from the check valve discharge. OIE Tooling custom builds Light Weight TA caps to fit the type and size of each wellhead.