

ITT Goulds Custom Drop-In Replacement with Increased Reliability

Application

Sea Water Fire Jockey Pumps – Offshore Platform

Pump

Vertical inline pump (OH3 style)

Challenges

- Match existing pump foot print and nozzle locations (Drop In Replacement – No modification work allowed at site)
- Upgrade power end for increased reliability
- Upgrade metallurgy for sea water application
- Proven hydraulics required

Solution

- Goulds 3996 1.5x3-10 pump casing was modified to match existing pump flanges and critical dimensions. New pump stool designed to match existing footprint.
- All wetted parts upgraded to NiAlBrz.
- Pump was performance tested in ITT Service Facility Perth
- Proven reliable Goulds power end with radial and thrust bearings compared to OEM pump which only had one single bearing.
- Wear parts are standard 3996 parts often available off the shelf and interchangeable with other Goulds 3196/3996 pumps at site.

