

Fluid Handling Systems

Fluid Technology



ContiTech Beattie Fluid Handling Systems

ContiTech Beattie Limited is recognised as a world leader in the design, manufacture and supply of flexible hoses, couplings and fluid transfer systems to the Oil and Gas Industry. The company, which is now a wholly owned subsidiary of Continental AG, began trading over 45 years ago and has modern manufacturing facilities at its Ashington headquarters and also in Aberdeen.

ContiTech Beattie is capable of offering a comprehensive range of products and services, from flexible hose assemblies to complete fluid transfer systems. The products and services offered by the Company are split into four main business areas "Hose and Couplings", "High Pressure Drilling and Production Hoses", "Fluid Handling Systems" and "Hose Management".

Experienced engineering and project management teams meet customer requirements from conceptual

Fluid Handling Systems

ContiTech Beattie Limited provides a comprehensive range of flexible hose storage and handling systems. These range from a single utility hose storage reel to complete hose handling and fluid transfer systems. The company has extensive experience in the design and supply of offloading, loading and sea water intake systems for FPSO's, FPU's FSO's, fixed offshore platforms and supply vessels. Systems and packages are designed and manufactured to customer specifications, conforming to international standards, to provide reliable and trouble-free service.

ContiTech Beattie fluid handling systems are located in installations throughout the world, operated by major international Oil & Gas companies, delivering quality performance in demanding conditions in a high expectation environment. The company's extensive expertise in the design, manufacture, installation and commissioning of fluid handling systems is complemented by over 45 years experience in the supply of flexible hoses to the offshore oil & gas industry.

stage to the delivery of fully integrated hose systems. The company can also provide installation and commissioning services, and provide training of client's personnel for both onshore and offshore projects. All products supplied are backed by extensive research and development.

The company is structured to provide a worldwide service that enhances our reputation of consistently providing innovative solutions through practical design. Quality, Safety and Environmental issues are of prime importance to ContiTech Beattie Limited and the company holds the following approvals; LRQA Quality Management System approval to ISO 9001:2000, Environmental Management System Standard ISO 14001:2004, Health & Safety Standard OHSAS 18001:2007 and Lloyds Register Verification to Pressure Equipment Directive 97/23/EC.

Offloading Systems

A complete offloading system consists of the following major components:-

- Offloading reel
- OCIMF floating offloading hose complete with couplings and end fittings
- Mooring hawser
- Hawser storage reel
- Fairlead
- Electro hydraulic power and control system

ContiTech Beattie Limited has designed, engineered and project managed many offloading systems complete with fully floating OCIMF transfer hose.

The systems supplied range from 6" nominal bore through to 24" and have incorporated hose strings of up to 300m with reel diameters in excess of 10m.

Several systems supplied have incorporated mooring equipment necessary to facilitate the offloading process as well as full control and instrumentation of the complete system.



Hose Loading Stations

ContiTech Beattie Limited has designed, engineered and project managed numerous loading station projects and has supplied more than one hundred hose reel skids. The hose reels are skid mounted for ease of deck connection and are generally supplied with their own dedicated electro hydraulic power unit and control station. The hoses stored on these reels range from 2" to 8" nominal bore with a hose string that can be in excess of 120m in length.

Typically, a hose loading station would comprise the following major components:-

- Hose reel/s
- Hydraulic power unit (HPU) and starter panel
- Wander lead control station
- Hose string/s complete with 'Weaklink' dry break coupling and client specific hose end valves
- Flotation aids for hose string

Seawater Intake Systems

ContiTech Beattie Limited seawater intake systems are available for operation in depths in excess of 100m below sea level.

The intake system can be mounted internally through a caisson in the hull of a vessel or externally on the vessel's side.

Typically, an intake system would comprise the following major components:-

- Riser Head / Riser Seat / Top Flange adaptor (dependent upon mounting arrangement)
- Required number of hose sections
- Internal hypochlorine line
- Suction strainer / filter

Engineering Capability

The ContiTech Beattie design and engineering department has the expertise and experience to design an engineered solution to project specific requirements in fluid handling. Experienced engineers can perform advanced structural analysis as well as static and dynamic analysis of flexible pipes to ensure the most practical and effective design for our products for reliable and efficient operation in the field.

Fluid Handling Systems supplied by ContiTech Beattie are supported by experienced after sales service engineers to provide technical support at site or from the office.



Delivering Flexible Engineering Excellence

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