Corporate Profile

Oil, Gas & Marine solutions

www.hoseco.com.au
Flexible engineering solutions

Established in 1999, HoseCo Australia Pty Ltd is a West Australian owned and operated business specialising in hose and hose assemblies. The company was established to supply a complete range of industrial hose, hydraulic hose and assemblies servicing a diverse client base from a broad spectrum of industries.

In 2012 due to growth in the Oil, Gas and Marine space, HoseCo established a specific business division to allow focus on this growing part of the business.

The division with operations in Perth and more recently Darwin, provides industry specific hose assembly solutions as well as providing an array of services unmatched in the industry.

Our factories are equipped with state of the art assembly, testing and servicing equipment that provide clients with locally based facilities and best practices previously only available internationally.
Ensuring flexible hose assemblies are well maintained is essential to the productivity, reliability and safety of any operation. HoseCo’s Flexible Hose Management Programs assist in successfully delivering services taking a holistic approach and applying them to small scale packages right through to large facilities.

Key aspects of any Flexible Hose Management Program that should be considered include:

**Design Consultation and Datasheet Development**

Working with our clients to develop best practice specifications is one of the most effective ways to improve the performance of Flexible Hose Assemblies on facilities. Drawing upon our experience from around the globe we can assist in the design element of a project for a wide scope ranging from Hose Assemblies to Offtake Hoses, Bunkering Systems and beyond.

Associated documentation can also be produced including GA Drawings, Datasheets, Policy Documents, Preventative Maintenance Plans and much more.

**Audit and Inspection**

All Flexible Hose Management Programs rely on the integrity of the available data. This can be ensured with regular auditing and inspection of Flexible Hoses onshore and offshore. HoseCo have inspection teams able to be mobilised anywhere, anytime.

**Flexible Hose Assembly Register**

Data compiled from audits and inspections is compiled and collated into a Flexible Hose Assembly Register. HoseCo manages this data and uses it to create alerts and schedule maintenance. This also acts as a reporting tool to demonstrate the effectiveness of the program.

**Online Access**

Access HoseCo Flexible Hose Assembly Registers online from any device anywhere.
HOSE MANAGEMENT

Maintenance, Replacement and Recertification

Hose management programs drive the maintenance strategies of flexible hose assemblies. The programs take into account the criticality of the application, price, availability of replacements, service life of the assembly, and its suitability for refurbishment and or recertification.

Compliance

Hose Management Programs assist clients with the overall compliance and traceability of their assets. Assigning unique identifiers and using labels, tags, barcodes and or RFID chips in a variety of materials HoseCo can ensure that every Flexible Hose Assembly on a facility can be identified.

Historical information on the Flexible Hose Assembly and the Material Document Register documentation can also be verified, referenced and stored.

Training

HoseCo develops training tools and coordinates bespoke courses for clients. Delivered internally or externally, our programs ensure all levels of staff receive appropriate training, from awareness through to hands-on technical assembly.

KEY BENEFITS

Early Detection: identifying potential failures and taking preventative action reduces downtime, and mitigates safety and environmental risks.

Asset Integrity: maintaining asset integrity and compliance maximises the serviceable life span and reliability of hose assemblies.

Data Quality: reliable and accurate documentation enables traceability, ensuring correct maintenance and replacement schedules are adhered to.
ISO 9001 QUALITY MANAGEMENT SYSTEM
HoseCo management systems are certified to ISO 9001.

NATA ACCREDITATION
NATA accreditation provides independent third party assurance of technical competence and capability of a facility to conduct testing, inspection and calibration in line with Australian and International Standards.

Our facilities comply with ISO17025:2005 and are NATA accredited to perform:
- mechanical and hydrostatic pressure testing of up to 60,000psi
- electrical resistance and/or conductivity of hose assemblies

Accreditation No: 19144

DNV.GL CERTIFICATION
DNV GL is the world’s largest ship and offshore classification society and a technical advisor for global maritime, oil and gas and energy industries in over 100 countries. DNV certifies hose for use on floating vessels.

HoseCo can provide hose assemblies with DNV-GL certification.

Repairs and recertification
HoseCo technicians are skilled and equipped to repair and recertify a range of flexible hose assemblies both in-house and offshore.

Testing and certification

Offshore Transfer Hoses (GMPHOM)
Offshore Transfer hoses for the offtake of crude oil, LNG and condensate are manufactured in accordance with the OCIMF GMPHOM 2009 Guide. HoseCo install, test, repair, recertify and manage these hoses, their reeling systems and associated couplings.

API Drilling Production Hoses
Drilling Production Hoses for onshore and offshore applications should be inspected and tested at regular intervals. HoseCo carry out inspections to ISS 059 guidelines for API 7K, 16C and 17K hoses for cementing, choke and kill applications among others.

Mechanical Testing
HoseCo can offer Mechanical Testing services for hose assemblies and components including tensile strength, abrasion resistance, bend, impact and hardness tests.

Non Destructive Testing
HoseCo offers a full suite of NDT services including PMI, X-Ray, Dye Penetrant, Magnetic Particle and Ultrasonic testing.
A comprehensive offering
We offer a complete suite of products ranging from Flexible Hose Assemblies (FHAs) to complete fluid transfer systems which are sourced from our quality assured global network or directly imported to ensure consistent product availability. This galvanises our supply chain efficiency and preserves business continuity for our valued clients.

Our technically qualified teams manufacture a full spectrum of hose assemblies and custom engineered solutions to fulfill project specific requirements. All hose assemblies and couplings are factory tested and certified to the highest Australian and International safety standards.

Product overview

OIL, GAS & MARINE — HOSE
- Bunkering
- Process chemical
- LNG/cryogenic
- Offtake loading to the latest OCIMF guidelines
- Dock loading
- Blow Out Preventer (BOP)
- Subsea lines including umbilicals
- Top side utility
- Ultra high pressure
- General hydraulic
- Cementing
- High pressure drilling and production lines to the latest API specifications
- Fracturing hose

BUNKERING HOSE
Robust range of hoses designed to supply cement, fuel, potable water and drilling materials to offshore facilities via floating strings from offshore supply vessels in adverse conditions. The addition of crimped end fittings, floats, plus breakaway and dry disconnect couplings, ensure longevity of assemblies with a minimum of risk.

PROCESS CHEMICAL HOSE
Hose features extreme chemical resistance to easily transfer contaminated or hazardous materials. Applications include safe transfer of acids, solvents, petroleum products and other chemicals during oil and gas extraction and processing. Our extensive range of chemical hoses is suitable for 98% of existing chemicals.
**LNG/CRYOGENIC HOSE**

Cryogenic hoses are primarily used in the decanting or transfer of liquid nitrogen from one storage container to another. Constructed from high grade, flexible stainless steel, these hoses are kink resistant, and engineered to withstand cryogenic chemical processing pressure and temperatures.

Newly developed hose assemblies for the LNG market are now available in large sizes up to 20”.

**OFFTAKE LOADING HOSE**

Used in loading and unloading operations as a means to safely transfer product from fixed offshore installations to shuttle tankers. Transfer applications include Liquefied Natural Gas (LNG), Liquefied Petroleum Gas (LPG), condensate, oil, chemicals and particulates. Product range includes submarine and floating type hoses manufactured to suit specific loading facilities and installations.

All hose assemblies are manufactured in accordance with the latest OCIMF guidelines.

**DOCK LOADING HOSE**

Suction and discharge dock loading hose used for ship-to-shore applications; available in varying composition to suit media transfer for oil products, petrochemicals, LPG, bitumen and asphalt.

HoseCo’s range of dock loading hose assemblies is manufactured in accordance with EN 1765.

**BLOW OUT PREVENTER (BOP)**

Blow Out Preventers (BOP) provide effective control and flame resistance in emergency situations where operation is critical during exposure to fire and high temperature by providing hydraulic power to seal the well head.

Our BOP product range of high pressure hose assemblies is fire rated by Lloyd’s Register of Shipping and meets DNV Requirements.

**SUBSEA LINES INCLUDING UMBILICALS**

HoseCo offers a range of thermoplastic subsea lines, including the ability to supply umbilicals.

**TOP SIDE UTILITY**

HoseCo offers a complete range of air, water, and nitrogen utility hoses, in line with oil, gas and marine industry specifications.

**ULTRA HIGH PRESSURE**

Generally used in blasting applications and supplied as assemblies to support ongoing maintenance programs.

**GENERAL HYDRAULIC**

Available in a range of construction types, sizes, lengths and pressure ratings to suit low to ultra-high pressure hydraulic systems.

**CEMENTING**

High pressure hose assemblies specifically designed for cementing applications. Hose assemblies are normally supplied with one-piece hammer union style crimped ends.

**HIGH PRESSURE DRILLING AND PRODUCTION LINES IN ACCORDANCE WITH THE LATEST API STANDARDS**

Engineered specifically for drilling operations to withstand gouging, harsh weather, oil and other corrosive fluids common at drilling sites. Rotary drilling, vibrator and gas/liquid hose assemblies offer flexible, high pressure connection between standpipe and swivel, or between pump and standpipe.

**FRACTURING HOSE**

Used for the delivery of drilling water, mud, chemicals, slurry and oil in fracking applications, the abrasion resistant, high pressure and tensile reinforced lay-flat construction provides effective suction and discharge services for this Fracturing application. Other uses can include the transfer of fracturing fluid, frac sand, chemicals, gel and water.

**OIL, GAS & MARINE — COUPLINGS**

- ✔ Hammer unions
- ✔ Dry break couplings
- ✔ Claw type couplings
- ✔ Marine breakaway couplings
- ✔ Band and buckles
- ✔ Instrumentation tube fittings and valves
- ✔ Ultra High Pressure (UHP) valves and adaptors
- ✔ Camlocks
HAMMER UNIONS
High-pressure connections with threaded or butt weld ends, allowing multiple configurations for use in a variety of oilfield and industrial applications, particularly where hose or pipe require easy disconnection and reconnection.

DRY BREAK COUPLINGS
Dry break couplings are used to facilitate connection/disconnection of filled hose or pipelines when operating under pressure to transfer hazardous or non-hazardous material. Particularly effective for applications where people and/or the environment need to be protected from hazardous leaks, or protecting sensitive media without environmental contamination. Couplings feature automatic sealing mechanisms at both ends to transfer media without leaks or loss, effectively minimising the risk of spills, and reducing down time and labour costs associated with more conventional connection methods.

Applications include Ship-to-Ship transfer (Bunkering), Ship-to-Shore transfer (PSVs), Ship-to-Rig transfer, marine refuelling and bulk loading and unloading of road tankers, rail cars and ship terminals.

Our dry break couplings are manufactured in accordance with STANAG requirements and in a variety of materials.

CLAW TYPE COUPLINGS
Generally used with utility hoses, the claw type couplings are used to connect two ends without bolting, enabling quick coupling and decoupling to or from a moveable hose, or a loading arm to a fixed flange on a truck or ship. Couplings are resistant to oil and temperature changes, providing secure connection and long working life even under difficult conditions.

BUNKERING MARINE BREAKAWAY COUPLINGS
Disproportionate tension can mechanically damage or destroy the connection point and load line, posing potential hazards to human and environmental safety. Marine breakaway or weak link couplings are designed to break their bolts under excessive tensile load such as adverse sea conditions. Automatic seals provide instantaneous double closure with 100% shut-off to prevent loss of medium. Typically used in ship-to-ship transfer, ship-to-shore transfer, ship-to-rig transfer, and marine refuelling. Couplings are designed to resist bending or twisting, preventing unwanted tension on the load line under environmental demands of offshore product transfer.
**COUPLINGS**
Marine Breakaway Couplings for today’s offshore environment. Working with some of the world’s leading manufacturers, dedicated SPM terminal couplings can be supplied and serviced by HoseCo from within Australia.

**BANDS AND BUCKLES**
HoseCo offers a range of stainless steel bands and buckles suitable for varying applications, including coupling of undersea pipelines or wires and bundling of automation or electrical tubing, to pipe on drilling and production platforms.

**INSTRUMENTATION TUBE FITTINGS AND VALVES**
Offshore rigs, refinery plants and gas handling systems are highly sensitive to flow fluctuations. Components offer high standards of reliability, corrosion resistance and effective regulation of vibration, temperature and pressure surges.

**ULTRA HIGH PRESSURE (UHP) VALVES AND ADAPTORS**
Ultra-high pressure valves and fittings for fluid and gas flow in oil, gas and marine industries are able to accommodate the high temperatures and pressures typical in these applications.

**CAMLOCKS**
Fittings allow for quick, secure connections of hoses to tanks or other hoses to support air, fluid or gas transfer. Camlocks are available in a range of thread styles and material composition, including stainless steel, aluminium and brass.

**OIL, GAS & MARINE — ACCESSORIES**
- [-] Hose floats
- [-] Hose handling equipment
- [-] Single point mooring equipment

**HOSE FLOATS**
Float collars are used to support sections of bulk hose that trail between the rig platform and supply vessel during transfer operations. Designed to allow hoses to bend and flex, while maintaining low resistance to waves, wind and current. Hose collars can be provided in lace up or polyethylene bolted types.
HOSE HANDLING EQUIPMENT
Offshore hose strings endure harsh conditions during deployment. HoseCo offers a range of handling equipment to reduce damage risk and prolong hose life, including:

✓ Hose lifter: designed to lift and position rig supply hose assemblies, offering a secure lift point for lowering the bulk hose string onto and off the supply vessel.

✓ Hose bun: polyurethane saddles designed to suspend hoses, in line with manufacturer’s minimum bending radius, and protect the hose from kinking

✓ Hose caddy: designed to secure the hose and prevent slippage during transport when mobilising on deck.

SINGLE POINT MOORING
In partnership with world leading manufacturers, HoseCo offers a comprehensive designed package, tailored to suit individual location requirements and water temperatures.

Our full range of Single Point Mooring products is manufactured and supplied in strict accordance with the OCIMF “Guidelines for the Purchasing and Testing of SPM Hawsers”.

Our SPM product range offers outstanding operational performance, reliability, safety and on-time delivery.

Our bespoke Single Point Mooring packages can include:

✓ Chafe chains
✓ Mooring hawsers
✓ Pick-up and messenger ropes
✓ Support buoys
✓ Shackles
✓ Associated fittings
✓ Load monitoring equipment
✓ Marine hose ancillary equipment.
We are committed to providing our clients in the Oil, Gas and Marine industry with the highest quality independent certification and supply service. This approach has seen HoseCo appointed as the preferred supplier on a number of prominent projects for both local and international clients.

**March 2013**
**INPEX AUSTRALIA ICHTHYS PROJECT**
Developed hose and hose assembly specifications for use on the INPEX Ichthys Gas Field Development Project, including creation of datasheets. The specifications have been adopted as standard for all global Engineering, Procurement and Construction (EPC) contractors involved in the project.
- Hose management consultancy and datasheet development
- Flexible hose design

**December 2013**
**CONOCOPHILLIPS ABU WEST**
Contracted to provide hose management and maintenance services for ConocoPhillips at their offshore operations in the Timor Sea and the onshore facility in Darwin including delivery of 24/7 technical support.

HoseCo manages over 4,000 hose assemblies with dedicated full time staff based in ConocoPhillips’ Perth office.

In December 2015, the service contract was amended to include storage and maintenance of ConocoPhillips Flexible Hose Assemblies (FHA) inventory spares to Original Equipment Manufacturer (OEM) specifications at our Darwin facility.
- Flexible hose management, supply and maintenance
- Develop and implement FHA specifications
- Offtake loading condensate hose string change

**January 2014**
**KELLOGG JOINT VENTURE GORGON PROJECT**
HoseCo worked in collaboration with Dunlop Oil & Marine in the United Kingdom to fulfill a hose supply contract for the Gorgon Project, delivered in line with relevant Australian Standards for hose assemblies.

Contracted to supply 6” High Pressure Emergency Release Coupling (ERC) for the Barrow Island project.
- 6” high pressure Emergency Release Coupling (ERC)
- Supply of hose and hose assemblies

**December 2015**
**SAMSUNG HEAVY INDUSTRIES**
HoseCo was engaged by Samsung Heavy Industries to develop specific datasheets, supply hose assemblies and utility hose reels for the INPEX Ichthys Project facilities being built in South Korea. The scope included visits to South Korea and working with Samsung and INPEX engineers to develop project specific assets.
- Develop product specific datasheets
- Supply of hose assemblies and utility hose reels

**2016 onwards**
**SHELL AUSTRALIA**
Maintenance of all offtake condensate hose string and reeling systems on the soon to be operational Shell Prelude FLNG. A proposed full hose management and storage program is presently under consideration. All hose assemblies to be tested and certified in line with current OCIMF guidelines from our Darwin facility.
- Conduct hydrostatic and vacuum testing.

**May 2017**
**ROYAL AUSTRALIAN NAVY**
Audit and creation of flexible hose register for Anzac-class frigates.
OIL, GAS & MARINE DIVISION & FACTORY

CANNING VALE
37 Magnet Road
Canning Vale WA 6155
p: +61 8 9235 7500

DARWIN
18 Callanan Road
Yarrawonga NT 0830
p: +61 8 8936 7698

enquiries@hoseco.com.au

www.hoseco.com.au