



# Oil & Gas Industry Offering (2017)



#### Vision

Pirtek Oil and Gas and participating Pirtek franchise partners will become the provider of choice to the oil and gas and other nominated specialised industries who are motivated by our product value and service performance objectives.

#### Mission

- ✓ Identify, penetrate and harvest opportunities to supply industrial, hydraulic and oilfield hoses, fittings, adaptors, protection, safety products and services to specialised markets including oil & gas, waterblast, mining and other specialised industries as required by the Pirtek group
- ✓ Develop further opportunities in specialised markets based on the strengths of our product and service ranges, not only with Pirtek's proven formula for supply chain benefits, but enhanced models developed from outcome reviews
- ✓ Foster positive relationships with all stakeholders who can have a material effect on the mission using continuous improvement techniques
- ✓ Provide justification of our plans and models with direct and indirect feedback from end users
- ✓ Using empathy and positive management techniques, build solutions to barriers for the franchisee and end user in reaching our objectives.
- ✓ Develop franchisee involvement with large and strategic prospects that need direct engagement from POG



a division of...

## Pirtek Fluid Systems Group (key benefits)

- 98 Service & Supply Centres around Australia
- 350+ Mobile Service Vehicles
- Over 800 employees
- NATA certified testing laboratories
- Registered Training Organisation
- Employee and Franchise experience
- ISO 9001:2015 Accredited
- Mature Hose Management Systems
- OEM facility
- Inventory management system
- Hose tagging (bar coding)



# Pirtek Oil & Gas



Quality Management System  
ISO9001:2015  
Cert. no.: QMS42749



NATA Accredited Laboratory  
ISO/IEC 17025 Mechanical Testing  
Accreditation no. 19624



## Industries served

All industries fully supported by  
the Franchisee network

Offshore exploration drilling  
rigs and production rigs

Mine site process plants

FPSO Floating Production and  
Storage Operations

Mine site Dewatering  
operations

Vacuum sucker truck

Flushing and  
testing contractors

Waterblast operators

Pressure Iron works (hammer  
unions, hose loops, swivels etc)

Land Drilling rigs and Fracking  
operations

Fuel and Chemical refineries,  
terminals and depots

Hire Industry

Hydrostatic Pressure Testing of  
hoses

Hydraulic powerpack  
manufacturers

Air Compressor

Fire Fighting  
Industry

Ship to Ship and Ship to Shore  
fuel loading

Minerals drilling rigs

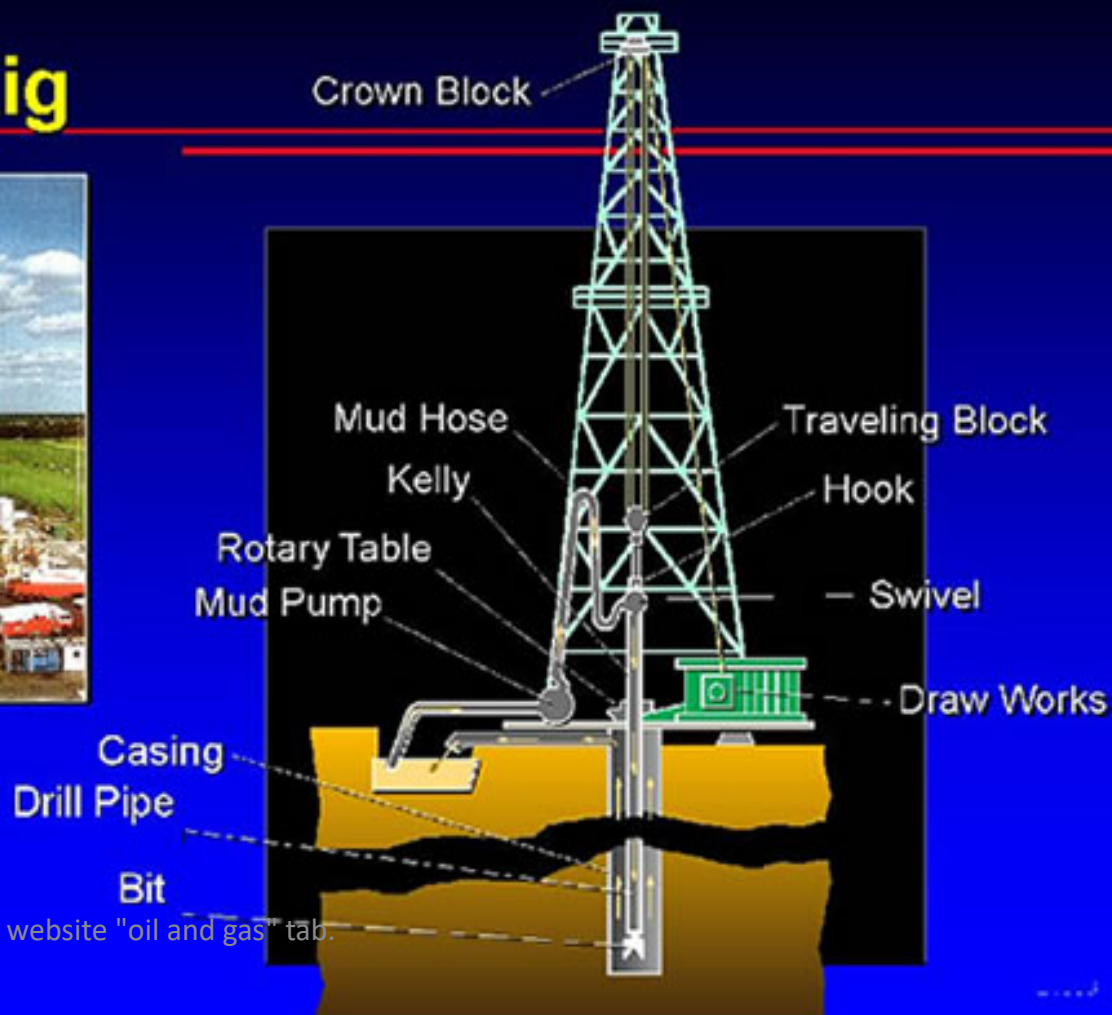
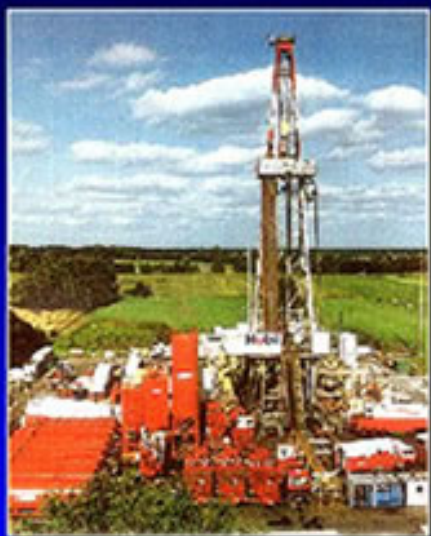
Water cutting  
industry

FRAS mining

Dry cement tanker industry

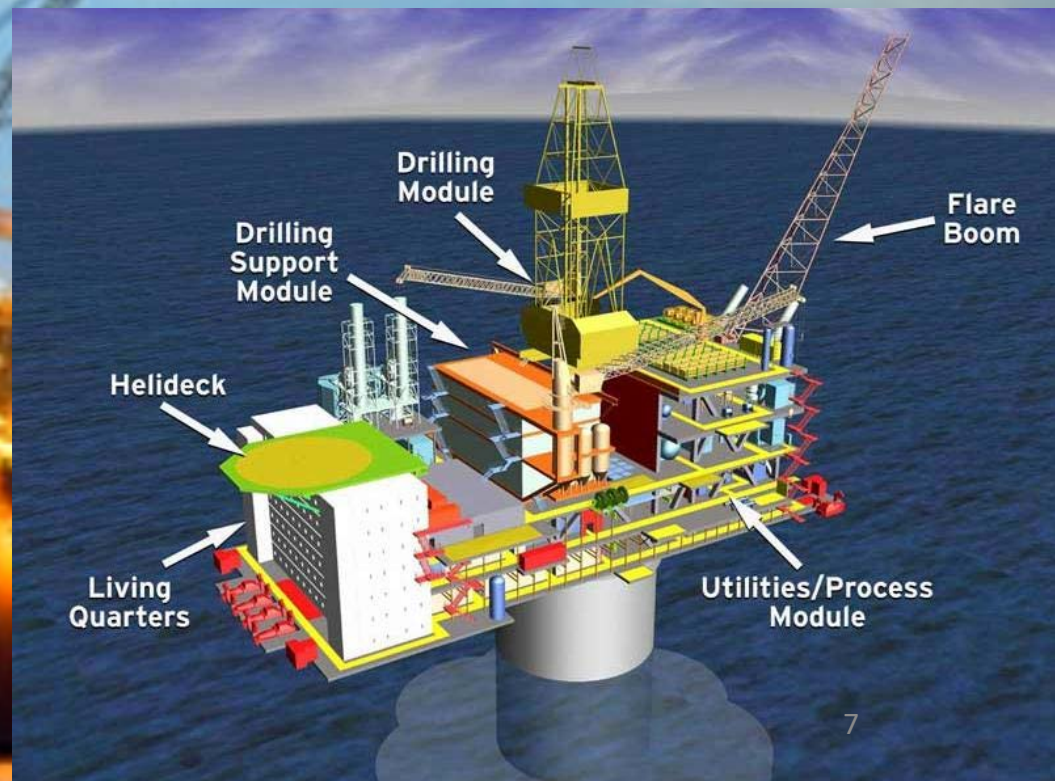
Bolt Tensioning

## Drilling Rig





## *Offshore Drilling Rig*





Subject	Slide number
Vision & Mission Statement	2
Pirtek Fluid Systems	3
Certification	4
Industries served	5
Land Drilling Rig	6
Offshore Drilling Rig	7
Index	8
Industrial & Utility Hose	9-20
Bulk Rig Supply Hose	21-24
Drilling Hose	25-30
Ultra High Pressure Hose (Spir Star)	31
High Pressure Hose 10k injection	32
NATA testing Services	33
Hose Protection Products	34-38
Hose Fittings	39-46
Dry Breaks and Breakaway couplings	47-48
Ironworks (Hammer unions/swivels/pup joints)	49-50
Instrumentation Products (Ham-Let)	51
Ultra High Pressure adaptors/valves (HiP)	52
Hose Equipment (Crimpers, cutting, insertion, handling)	53-57
Questions	58

**Index**





## **Air & Water Hoses**

**Economy range (OGDR109/OGDR206);**

12mm to 51mm

Colour stripe and full colour for instant identification

Green for water (marked water), Blue for air (marked air)

20 bar working pressure (4:1 safety factor)

20 and 30 metre coils

Pirtek AS2554 branded

**Premium range (OGIRSAWY);**

12mm to 102mm

Colour stripe and full colour

20 bar working pressure (4:1 safety factor)

Full yellow, blue or green marked air/water

AS2554

61 metre coils

Marked Pirtek

**FRAS range (OGIRSAWYAAFRAS);**

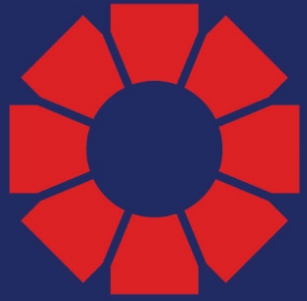
FRAS over white stripe

Anti static wires

AS2554 Class AA 25 bar wp.

61 metre coils

Pirtek branded



# PIRTEK

oil and gas

*Industrial & Utility*

## Large Bore Water Hoses

### Premium range (OGIRSWSD)

254mm & 305mm

Colour stripe

15 bar working pressure (3:1 safety factor)

12 metre lengths

EPDM tube

Pirtek branded



Crimp style ferrules and sleeves are available in carbon steel which can be zinc plated or heavy duty galvanised and stainless steel. Any style of flange can be welded as required.

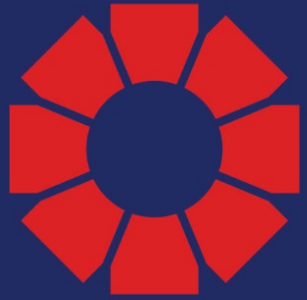
Data Sheets are available on Pirtek website "oil and gas" tab.



Shell Ferrule

Interlock Ferrule





# PIRTEK

oil and gas

**Industrial & Utility**

## Potable Water Hose

### Potable Water Hose (OGIRSPWHW)

FDA approved *license tit.21, item 177.2600 for aqueous foods. BfR XXI cat.2 for foods.*

EU regulation CE 1935/04 and CE 2023/06

122 metre coils

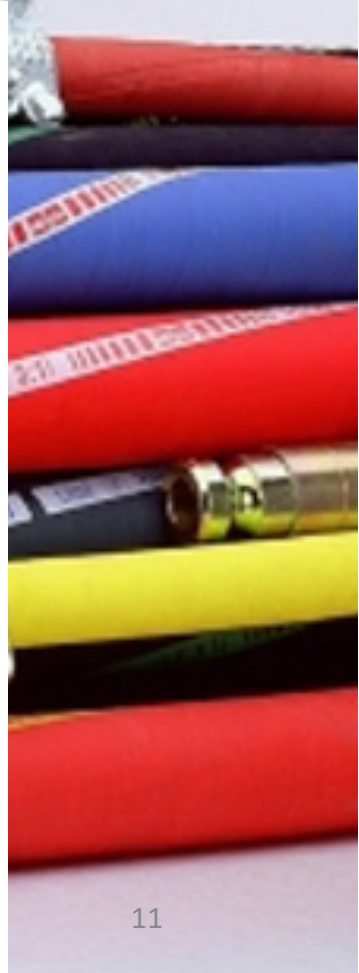
76 and 102nb

Full orange cover

Built for heavy duty offshore drilling rig use, but can be used where quality drinking water hose is required.

Pirtek branded

Data Sheets are available on Pirtek website  
"oil and gas" tab.





### Fire Lay Flat & Washdown Hose (OGLF\*\*\*\*)

- 30 metre and 200 metre lengths
- AS2792 Class H and AS1851.9 compliant
- Red or Yellow colour
- Pneumatically controlled band clamping
- Full range of BIC, Stortz and many other types, in hose tail and adaptors.



Data Sheets are available on Pirtek website "oil and gas" tab.



## **Steam Hoses**

Premium range (OGIRSSSAWY);  
12mm to 102mm  
Red full colour cover, pin pricked  
18 bar working pressure (10:1 safety factor)  
ISO/EN 6134 Type 2, Class A  
61 metre coils  
Pirtek branded

### Special Fittings

**1.0 NPT male with safety clamp Brass and stainless steel**



**2.0 NPT male and ground joint style with U Bolt clamps in galvanised steel**



**3.0 Crimp style by special arrangement**



## Air Bull Hoses (Hi-Temp)

### HT1 & HT2

Blue cover wire braid reinforced  
40 and 80 bar working pressure  
135o Celsius  
45 metre lengths  
Pirtek branded

### OGIRSAWY40 (80)

Yellow cover  
40 and 80 bar working pressure  
160o Celsius  
45 metre lengths  
No wire reinforcement  
61 metre coils  
Pirtek branded



## Fuel Hose

**Premium range (OFSD, FHW20, FHW34, FHW37/FHW40)**

19nb to 203nb

61 and 122 metre coils

AS2683

Red stripe

10, 20, 34, 37 & 40 bar working pressures

Pirtek branded

**Economy range (DR404/401/406)**

19nb to 203nb

20 and 30 metre coils

AS2683

Red stripe

10 to 20 bar working pressure

Pirtek branded

## **Fuel Hose-Bunkering**

### Premium range (OGIRSFHWB)

51nb to 305nb

61 metre coils

Complies with BS1435:1987, EN1765:99 S15

15 bar working pressure 60 bar burst pressure

Red stripe

Pirtek branded

### Crimp Fittings

Full range crimp on hose tails in carbon steel, hot dipped galvanised or stainless steel. Lifting lugs, hooky hooks, hose caddy trolleys, float collars, dry break and breakaway couplings are available.



Economy range (OGDR924)

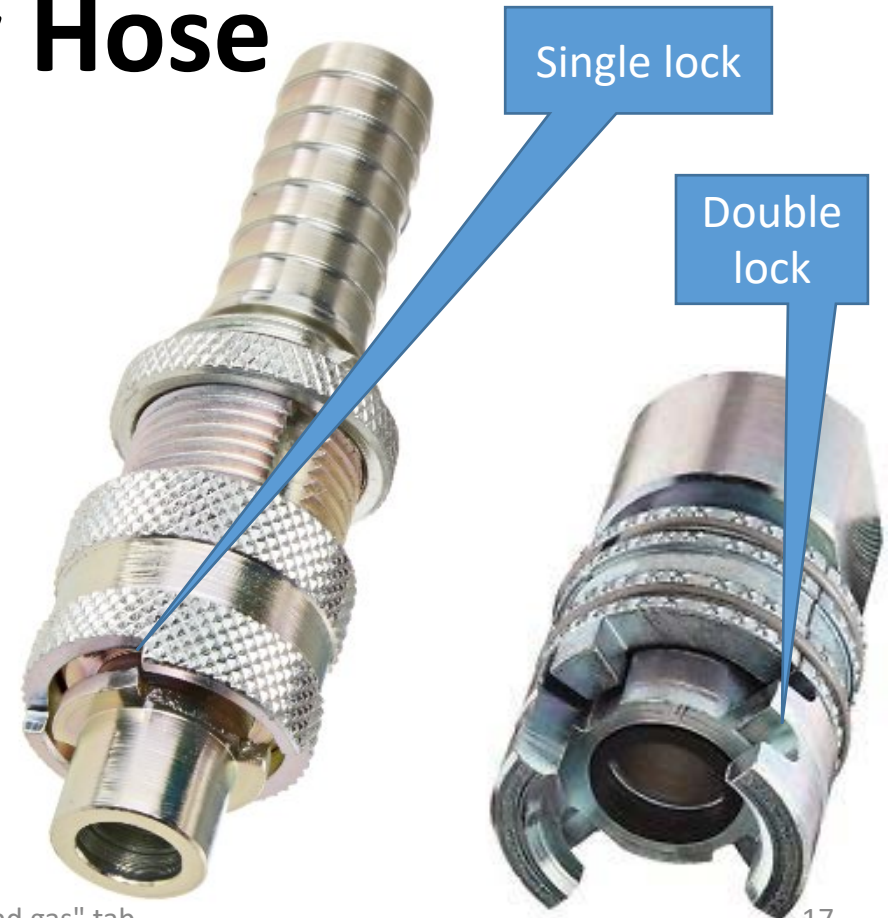
19nb

24 bar working pressure (4:1 SF)

20 metre coils

Pirtek branded

# Nitrogen Utility Hose





## Abrasive Resistant Bulk Hoses

### **Bulk Powder Cement Hose (OGIRSBKSWL)**

6 and 10 bar working pressure (4:1 safety factor)

61 metre coils

Pirtek branded

### **Bulk Products Hose (OGIRSBHW)**

20 bar working pressure (4:1 safety factor)

61 metre coils

Pirtek branded

Muff Couplings fit on the outside of the DR801 hose to avoid wearing from the medium. Available in aluminium and cast iron



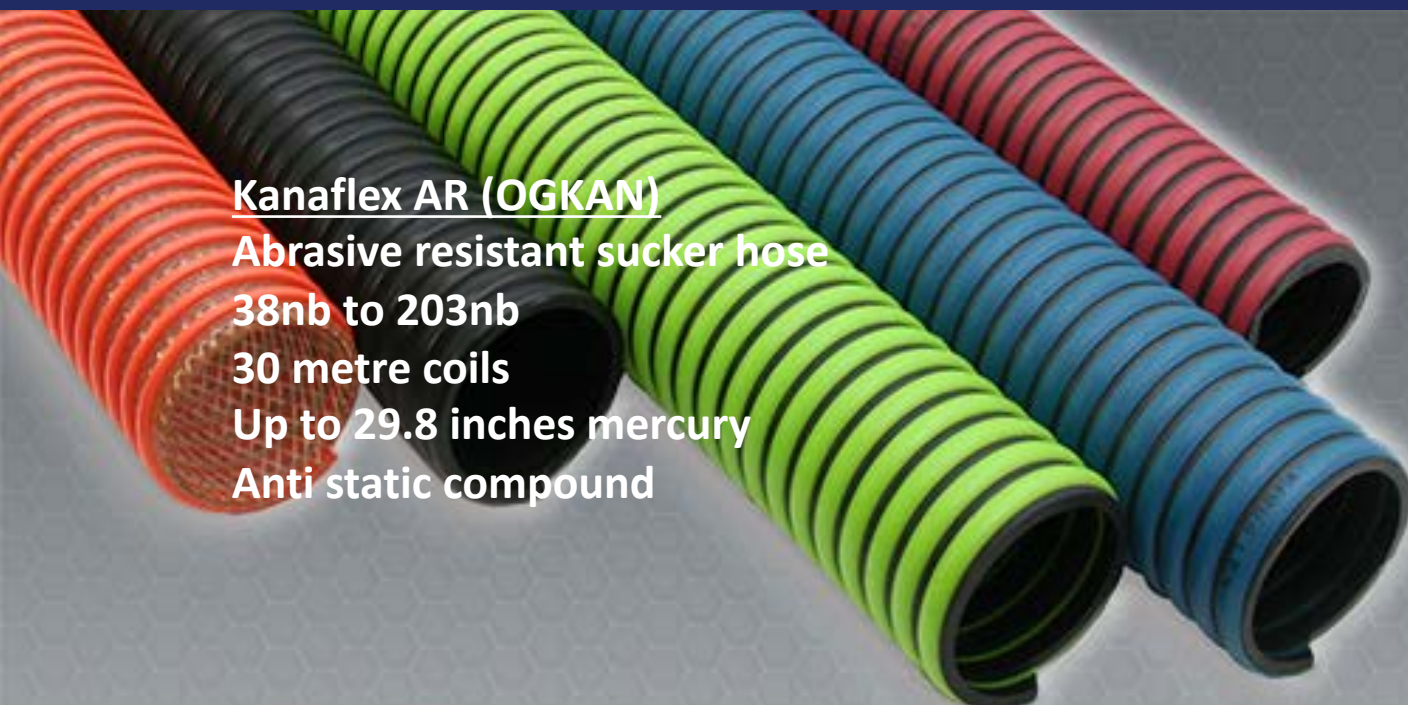
### **Bulk Material Hose (OGDR801)**

10 bar working pressure (3:1 safety factor)

30 metre coils

Can be used with Muff Couplings

Pirtek branded



### Kanaflex AR (OGKAN)

Abrasive resistant sucker hose

38nb to 203nb

30 metre coils

Up to 29.8 inches mercury

Anti static compound

## Vacuum truck sucker hose



### Vacuflex (OGDRVAC)

Abrasive resistant  
rubber hose

38nb to 203nb

30 metre coils

10 bar w.p. (3:1 SF)

A/S wires

Pirtek branded



Banding coil used to fill in  
convolutions and allow for  
clamp or crimp attachment  
of fittings



Spiral clamp used to slot in  
convolutions for the  
attachment of fittings



## Chemical Hose

**Premium UHMWPE inner (OGIRSCHW)**

16 bar working pressure (4:1 Safety factor)

Anti static wires

Fire proof cover

FDA approved for water and food.

19mm to 102mm nb

61 metre coils

Pirtek branded

Rounded barbs,  
not too intrusive



**Crimp Fittings (OGNS300SS)**

Specifically designed to not harm the inner tube when crimping to this hose

Data Sheets are available on Pirtek website "oil and gas" tab.



## **The ultimate larger bore Multi-Purpose Fire Resistant hose**

**OGIRSMPFH-Hardwall  
OGIRSMDFS-Softwall**

*20 bar working pressure  
5:1 safety factor*

**Particularly suited to oil rig firewater lines**

*Size range;  
50nb to 203nb  
60 metre coils*

Data Sheets are available on Pirtek website "oil and gas" tab.



## Bulk Rig Supply Hose



All are Pirtek branded

Data Sheets are available on Pirtek website "oil and gas" tab.



**Bulk** 20bar 60mtrs 102, 127nb



**Fuel & oil Based Mud**  
20/34/37/40 bar  
60mtrs 51, 76, 102, 127, 152, 203nb



**Air** 20/40/80 bar  
60mtrs 51, 76, 102nb  
80 to 160o Celsius



**Potable Water** 20 bar  
60/120 mtrs 76, 102nb



**Fuel Bunker** 15 bar  
60mtrs 51, 76, 102, 152, 203nb. EN1765



**Drillwater** 20 bar  
60mtrs 102



## Bulk Rig Supply Hose



External **crimp tails** from 52nb to 305nb carbon steel zinc plated or stainless steel. NPT, flanged, plain end terminations.



**Dry disconnect** Hose Units and Tank Adaptors in aluminium and stainless steel with NPT and flanged ends. Sizes from 25nb through to 152nb.



**Breakaway** or weak link couplings. Stainless steel marine style with NPT or flanged ends. Replaceable break bolts and seals available. 76nb, 102nb

Data Sheets are available on Pirtek website "oil and gas" tab.

Hose **caddies** (trolleys, robust aluminium or steel powder coated finish with heavy duty castors and hold down straps. Hose **HOG** to keep hose from wearing out during pump pulsations.



**Hose Buns.** Lifting saddles to protect the hose from damage during positioning. Slings are rated for Australian lifting standards Pirtek branded



**Float Collars.** Two half style with rubber anti slide bushes. Bolts and nuts in galvanised or stainless steel. Pirtek branded. Flexible style ex stock





## Bulk Rig Supply Hose



**Hammer Unions.** Stock range from 25mm through to 254mm threaded and butt welded. Fig 50 through to Fig 1502.



**Safety Whipchecks and Whip Socks.** Affixed to the recess of the hooky hook crimp hose tail on rig supply hoses and used to lift the hose string into place by the oil rig crane.

Data Sheets are available on Pirtek website  
"oil and gas" tab.

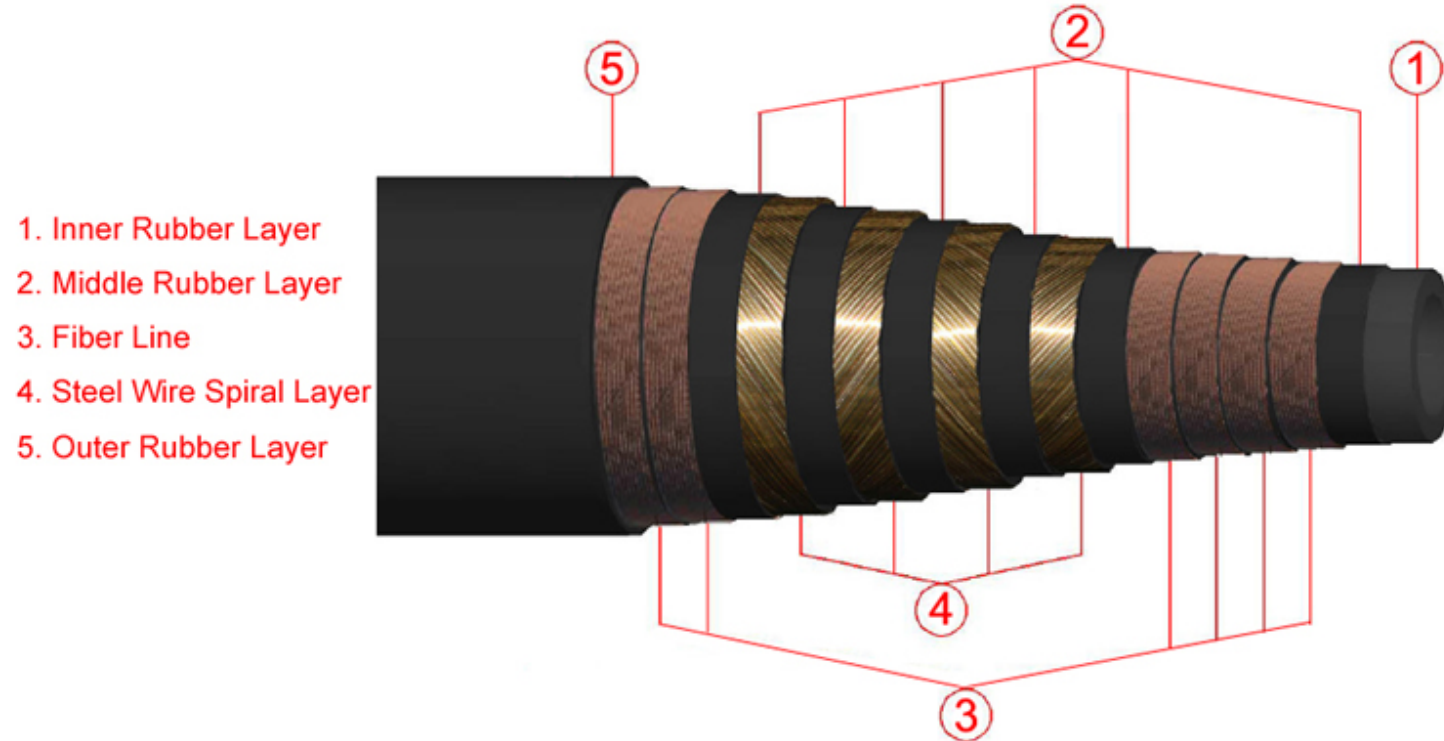


**Hammer Union Caps & Plugs.** Designed to protect pipelines and hoses from infestation and dirt. Available in female and male subs, most types are covered from Fig 100 through to Fig 1502.



**Hooky Hook Hose Lifter.** Affixed to the recess of the hooky hook crimp hose tail on rig supply hoses and used to lift the hose string into place by the oil rig crane.

### Kelly, Vibrator and Cementing hoses



**Cement** Drilling hoses are manufactured to API 7k standards. These are used to pump the drilling muds into the drill hole, which are usually done at very high pressures. We have pressure ranging from 5,000psi through to 15,000psi working pressure. Test pressures are 1.5 times working pressure. Our NATA laboratory is authorised to test to API 7k specifications. Built in end couplings are most common, but delivery can be 8-12 weeks. Crimped and swaged versions are more readily available.

## Drilling Hoses



### BOP (Blowout Preventer Hose)

**BOP** hoses are usually 3000 or 5000 psi hydraulic hoses with stainless steel crimp end fittings. This hose are specially manufactured with glass cloth and subjected to fire tests which means they have to withstand 800 degrees Celsius for 30 minutes whilst under full pressure without bursting. Hoses range from ¼" through to 2"nb and must be stamped and comply with API 16D. The end crimp fittings are applied with an extra metal sleeve to prevent flames from breaching through the outer cover near the external ferrule. Sometimes a stainless steel external strip wound cover is applied for added protection.





## *Drilling Hoses*

### Choke and Kill hose

Choke and Kill hose assemblies are the most important hose on the drilling rig. These hoses need to perform to the very hard to attain API 16C requirement for performance. They are usually encased in fire and damage proof stainless steel external armour.



## *Drilling Hoses*

### Jetting Hose



Used to pressurise the base of drilling rigs in preparation for grouting, these hoses can rate very high working pressures. Either built in or crimp version are available depending on configuration and pressures required.

## *Drilling Hoses*

## Production Hoses



These hoses are used in production facilities for condensate and gas and oil at high pressures and larger diameters. 6 and 8" inch hoses rated to 3000psi working pressure are not uncommon. Generally controlled by the API 17 K and E standards, these hoses have to be built to order, which require a sacrificial test trial hose for each application. A typical production hose may cost \$100k.



### **OCIMF Floating Hoses**

These hose assemblies are used to transfer oil and gas from the production facility to shuttle ship tankers. Highly regulated to perform in very intense and challenging environments, these are subjected to OCIMF and other shipping forums and standards. There are a variety of styles including double carcass so any spills are contained and float cells to suit the various positions along the string eg. over the ship's rail, or partly submerged. A string of 300 metres of 16 inch would cost approximately \$3mil. We can supply sections which can be \$23k for a 12 metre section or perform the relevant hydrostatic and electrical continuous or discontinuous testing which has to be performed every three years.

Data Sheets are available on Pirtek website "oil and gas" tab.




## *Ultra High Pressure Hoses*

*Working pressures from 1100 bar to 3200 bar*

Ultra High Pressure

**Spir Star** range of ultra high pressure hoses range from 3mm id to 25mm id. These are used for water blast, power packs, downhole methanol injection, bolt tensioning and anywhere high pressure, low volumetric expansion and smooth covers and tubes are required. Particularly good for gas transfer due to no or very low permeation.

## ***High Pressure Hoses***



Thermoplastic hoses rated at 10,000 psi working pressure requiring high flexibility and low weight. This range has a 4:1 safety factor and meets all the requirements of the ABS (American Bureau of Shipping) and the DNV (Det Norske Veritas). A complete range of stainless steel crimp fittings and matching adaptors are also available.

A twin version of this hose is also stocked.  
Pirtek branded





*This document is issued in accordance with NATA accreditation requirements.  
Accredited for compliance with ISO/IEC 17025.  
Accreditation number 19624*

## Nata Testing Services

We are a qualified NATA testing laboratory for;

- ❖ Hydrostatic proof
- ❖ Hydrostatic Leak
- ❖ Hydrostatic Change in Length
- ❖ Hydrostatic Burst
- ❖ Electrical Continuity

***Qualified hose experts available to guide you on the most appropriate test and inspect program plus provide the best hose safety advice.***

*The majority of our new hose assemblies are tested to Nata compliance in accordance with the appropriate listed procedures. Special contract rates for in house and remote locations testing can also be quoted.*



### Hose Caddy

A heavy duty aluminium or steel powder coated frame with heavy duty swivel wheels and hold down straps. Ideal for moving either large bore hoses or bunches of smaller hoses around the terminal or wharf or process plant.



### HOG

The hose off the ground plastic hose stand was designed as an easy and cost efficient means to raise hose assemblies off the ground negating the wear and tear of hoses caused by pump pulsations. We have also found that this is an excellent means to identify leaks and drips during the testing process.



### **Hooky Hook Lifting Eyes** (hose lifting eye hooks)

A heavy duty carbon steel lifting eye, fully rated for offshore lifting standards which are affixed to the special recess in crimp hose tails and secured with the lifting eye clamp. Extensively used in the oil and gas rig supply hose industry globally. Sizes from 50mm nb to 203mm are stocked.



### **Hosebun** (hose lifting saddles)

A heavy duty polyurethane saddle to protect and maintain the hose curve whilst crane lifting the hose into position for use or storage. Lifting slings are fully rated for global and Australian lifting standards and are stamped Pirtek. Sizes are based on nominal inside diameter of hoses ranging from 25mm to 305mm nb. Pirtek marked





### Hose Float Collars

Manufactured from polyethylene these are applied in two halves over two rubber buffers and then bolted down with galvanised or stainless bolts. Internal rubber discs do allow for various hose outside diameters to be catered for. The oil and gas industry predominantly use them to keep their supply hoses above the water line so that the supply boat does not destroy the hose. Also used on dewatering pipelines and hoses in the mining industry. Pirtek marked.



### Flexible Hose Float Collars

Manufactured from composite materials and stitched into roll style forms to enable wrapping around the hose and tied together using snap locks or hook and eye. These are available in standard orange with fluorescent strips or can be made with fluorescent green material. These float allow for the curvature of the hose and are especially suitable for when hoses are stored on hose reels.



### Hose Restraints (Stockings/Socks)

These are the ultimate in protecting the hose from whipping off the equipment when rupture or unexpected disconnection under pressure is expected. Available in galvanised steel and stainless steel standard sizes include from very small to 180mm diameter. Special sizes and different configurations are built to order.



### Whipchecks

A low cost hose restraint where the end loops are opened up to slip over the hoses and piece of equipment to protect from hose rupture or incorrect disconnection. Galvanised and stainless steel materials and sizes from small, medium and to large options are available.

## *Hose Protection Products*



**Spiralguard** (Hose Wrap), is manufactured from PE pipe and is designed to be wrapped around a single hose or bundle of hoses to protect and keep them tidy. Available in many colours.



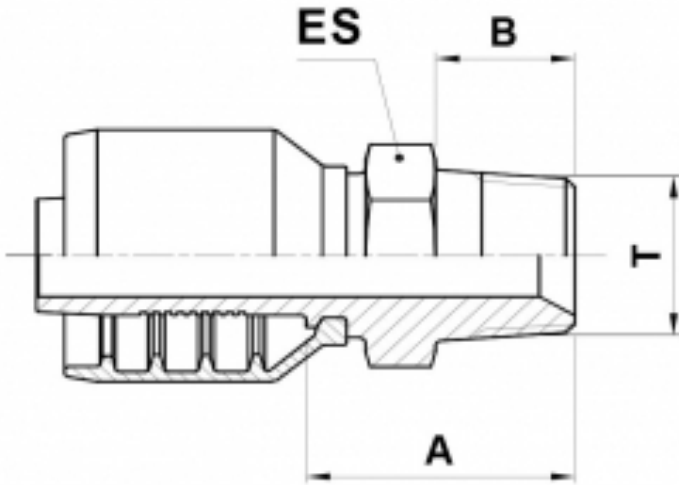
### **Hose Beads.**

Available in yellow mostly and to suit specific outside diameter of hoses such as Aircraft refuelling.



## Hose Fittings

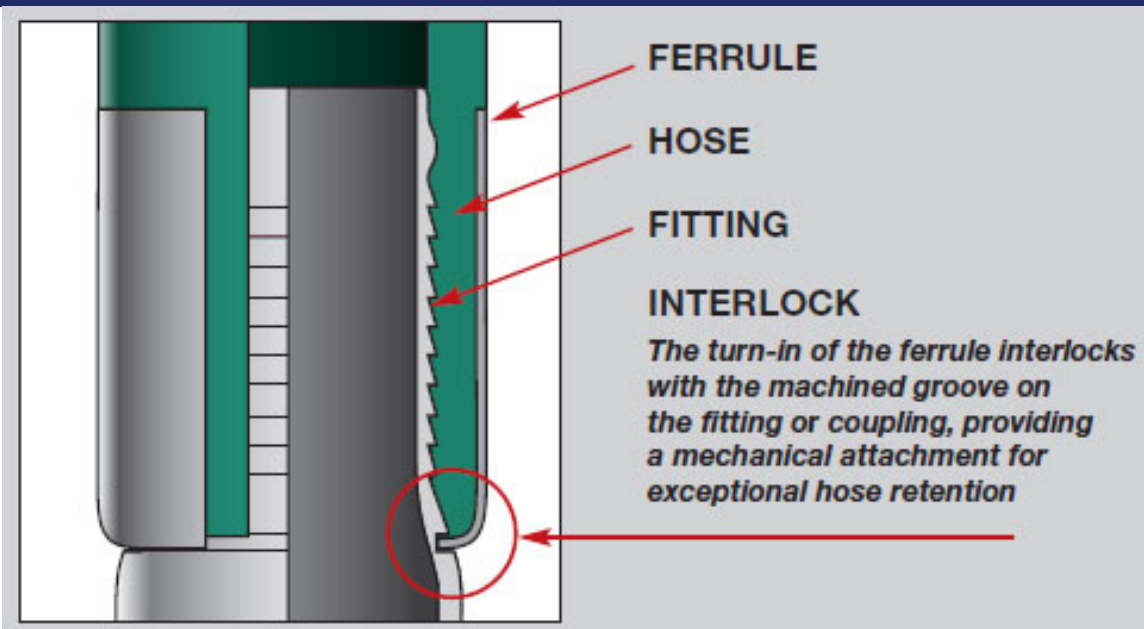
### NPTF MALE (60° CONE SEAT) - LONG NOSE API STYLE VERSION



These are one piece H series crimp tails but with an extended NPT male thread as per API requirements so that they do not “bottom out” when affixing to hammer unions. Good stocks are held at Oil and Gas.

Code	Hose			T	A		B		ES		
	DN	INCH	SIZE		[mm]	[in]	[mm]	[in]	[mm]	[in]	[in]
MNA10H-24-32	38	1.1/2"	24	2" - 11.1/2	109,5	4,31	51	2,01	65	2,559	2.9/16"
MNA10H-32-32	51	2"	32	2" - 11.1/2	111,7	4,40	51	2,01	65	2,559	2.9/16"

## Hose Fittings



A full range of industrial hose fittings in the CRIMPNOLOGY range covering camlocks, threaded, flanged, Bauer, chemjoint and many more options. Ferrules and crimp sleeves along with crimp charts and guidelines on assembly procedures are available on line. Steel, aluminium and stainless from ½" through to 6".

Data Sheets are available on Pirtek website "oil and gas" tab.

**CampbellCrimpnology™**

Ferrule & Sleeve Selection  
and Crimp Specification Guide

Your guide to excellence!



**Download Our Crimp Chart**



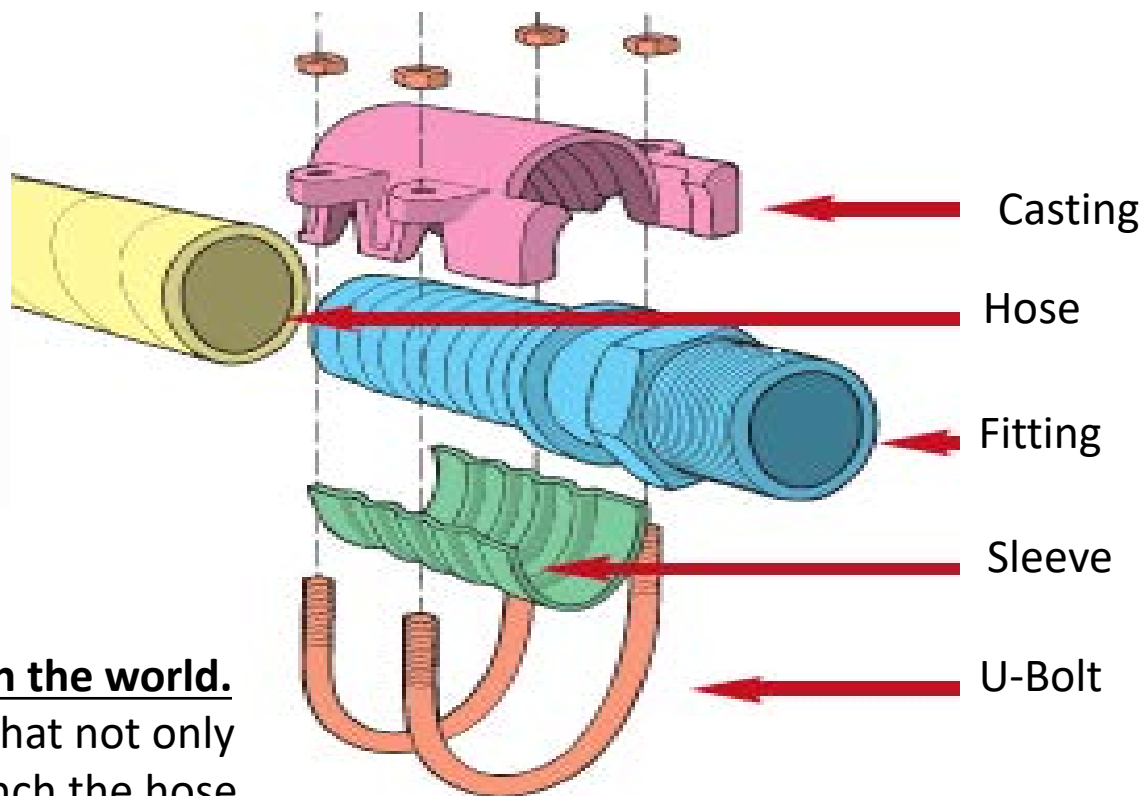
Supersedes all previous versions. 40  
Please note: This is for use with Campbell couplings, fittings, ferrules and sleeves only. Prices listed in our catalog and website may be referenced only when using Campbell components following the procedures outlined in this guide. © Campbell Fittings, Inc.

## Hose Fittings

### U Bolt Hose Clamps



*Triple style*



*Double style*



*This 2" 1000 psi rated hose exploded in a test at 5200 psi. The hose exceeded its minimum 4X safety factor. The fitting and clamp exceeded the capacity of the hose.*

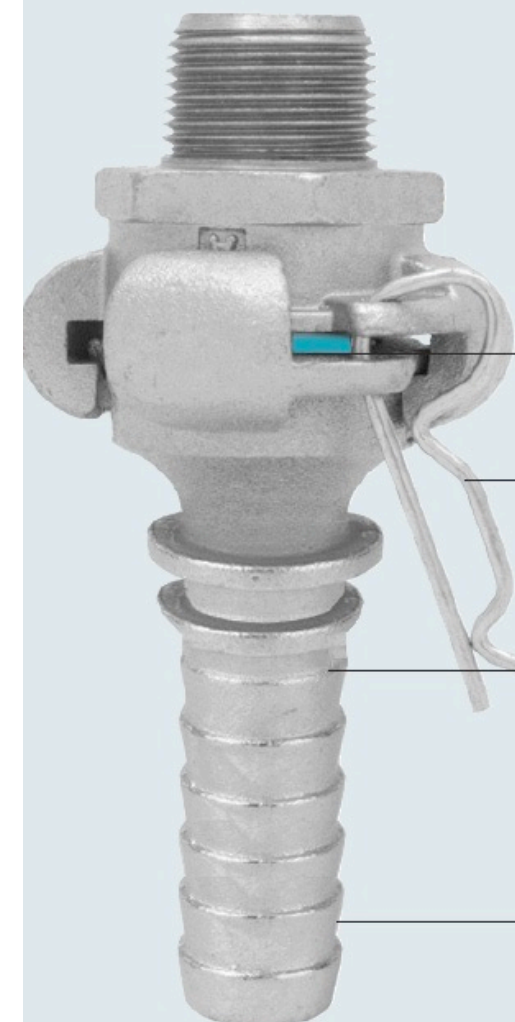
**The strongest bolt clamp in the world.**  
360o rotation connection that not only fully seals, but does not pinch the hose.  
Easier installation with bolts on one side.

Data Sheets are available on Pirtek website "oil and gas" tab.



## Type A crimp couplings

- Superior retention in hose
- Heat resistant seal (120oC)
- Softer seal for easier assembly



### SG Iron & Stainless Steel Type A and Staytite



Manufacturing Standards: Couplings are manufactured in accordance with the following Standards

- AS 1831 Iron Castings – Spheroidal or Nodular Graphite Cast Iron
- ASTM A 395. Ferritic Ductile Iron pressure retaining castings for use at elevated temperatures.  
This Standard specifies chemical, physical and hardness required.
- ASTM A 536. Standard specifies tensile requirements
- ISO 1083-1976. Intn'l Organisation for Standardisation Spheroidal /Nodular Graphite cast iron.
- BS 2789-1985. Specification for SG Iron mechanical properties.
- DIN 1693 -1973. Grade & Structure for Iron with nodular graphite.
- US Military 11466A [ordnance] for instructions on heat treatment.

Manufactured under strict Quality Assurance Standards in ISO Accredited Foundry.

**Note: These couplings are not to be used in steam applications.**

**Material:** Coupling body is manufactured of Spheroidal Graphite Iron which has undergone ferritization heat treatment. Couplings are also available in Grade 316 Stainless Steel Material; and in Steel material. Nitrile Rubber Seals are oil resistant. All iron couplings zinc plated silver.

**Pressure Ratings:** "NATA" Laboratory tested in accordance with AS1180-5D. Couplings with standard Nitrile rubber solid Seal 11,000 kpa [ 1600psi]. Couplings with standard Nitrile rubber Bellow seal 1190psi.

Pressures Ratings exceed AS2554, Hose & Hose Assemblies for air: Max WP 1.6mpa [232psi], Min BP 6.4mpa [928psi]; and AS2660, Hose & assemblies air/water for underground Mines: Max WP 1.75mpa [254psi], Min BP 7mpa [1015psi].

## Type B Universal Air Coupling Crimp Style



### Standard

#### **Investment Cast**

#### **Universal Hose Ends**

- Investment casting provides a crisp, high quality, hose-end surface-finish, without costly machining.
- Crimpnology hose ends for superior retention and sealing.

### Universalok

#### **Features and Benefits**

- Mates with domestic and imported Universal Couplings.
- UniversaLock's automatically lock onto mating coupling.
- Crimpnology hose end for superior retention and sealing.
- Cast ductile iron meets ASTM A536 specification.
- Washers manufactured from nitrile for superior oil resistance.





### Cobra Camlocks



#### Cobra camlocks are...

- manufactured to the codes. ASTM F1122, MIL-C-27487, CID A-A-59326
- The crimp tail range has special features that reduce stress on the inner liner of the hose
- Aluminium, stainless, brass and other materials
- Locking lever design, one hand to lock, two hands to unlock
- Locking lever kits available separately and can be retrofitted to standard Cobra camlocks.
- Variety of rubber seals to suit a variety of mediums
- Full range of adaptors, plugs and caps

Data Sheets are available on Pirtek website "oil and gas" tab.



## Hose Fittings



**Hose  
Crimps**  
25nb to 350nb



Kombo heavy duty sleeve 20 bar wp



Stainless Steel 2 piece



Steel Kombo



**Hooky Hook**  
for rig supply  
hoses

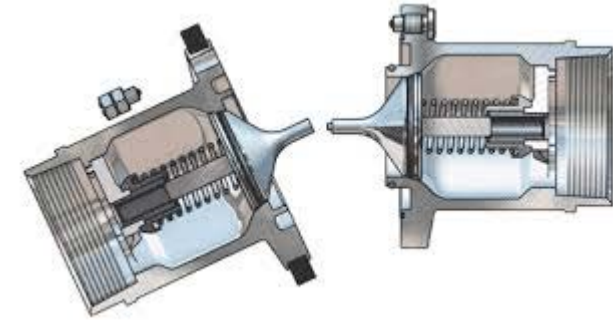
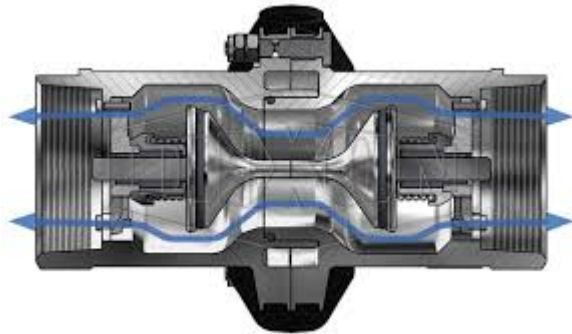


**The Beast.**  
Fig 1502 for 6  
wire/API  
hoses.



Data Sheets are available on Pirtek website "oil and gas" tab.

## Breakaway (weak link) Couplings



Breakaway couplings are threaded or flanged and usually fitted between hose assemblies. Marine style are designed to break away at predetermined breaking strain





## Breakaway (weak link) Couplings



### Cleanbreak Dry Disconnects

- Stanag 3756 and TEAM compatible
- Stainless steel or aluminium
- High flow rates
- Swivel included
- Dust plugs and caps with lanyard available
- NPT, BSP or flanged
- Variety of seals
- 25nb through to 152nb
- Used on;
  - Supply vessels for oil rigs
  - Fuel/chemical depots and terminals
  - Ink and oil manufacturers

## Ironworks



Fig 100



Fig 200/206



Fig 400



Fig 602



Fig 1002



Fig 1502



Fig 2202



Manifold System



Plug Valve



Positive Choke Valve

## Ironworks



Elbow



Tees



Cross



Bull Plug



Bull Plug



Male/Female Adaptors



Y Piece



Swivel Joints



Cementing Steel Hose Loops



FRAC Adaptor (Goat Head)



## *Instrumentation Fittings*



A broad range of tube fitting, valves, manifolds, gauges and many other products to assist the instrumentation engineer. Ham-Let are one of the leading quality manufacturers of instrumentation tubing products which has a long history with Pirtek. Shipping and oil and gas companies have extensive use of these products.

### Range

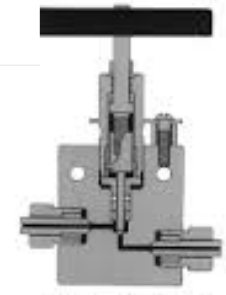
- Needle, ball and check valves
- Ball valves
- Subsea valves
- Line Filters
- Adaptors (tees, nipples, crosses)
- Cone & thread nipples
- Cone, thread & seating tooling
- Pressure vessels and reactors
- Pumping systems
- Intensifiers
- Gas boosters
- HP Generators
- NACE approved valves & adaptors



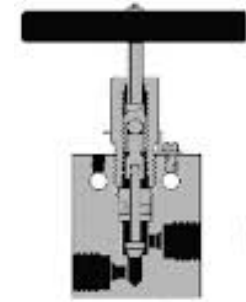
Since 1954



10,000psi  
to  
150,000psi



Positive Guide Stem



Pinned Stem



Rolled Stem

Data Sheets are available on Pirtek website "oil and gas" tab



# Integrated and Accessible

eQuip  
Online



IC  
Mobile



IC  
Desktop



IC  
Testbench



A powerful cloud based asset tracking and management system provides total visibility and absolute control over asset utilization, accurate documentation, and information transference







# The OnGuard™ Solution

## Easy to use

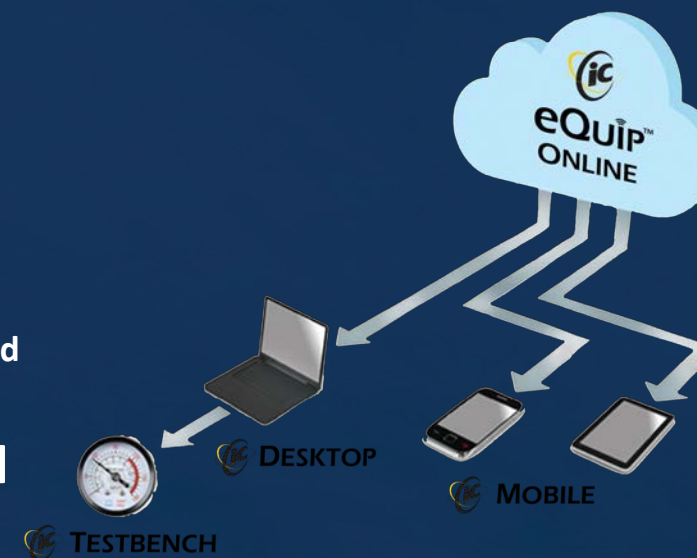
- ✓ Off the shelf solution
- ✓ Intuitive interfaces

## Compatible with target industries

- ✓ Meets API and ASME standards
- ✓ Customizable enough to adapt to new products and markets

## Dynamic enough for use in ground level operations to high level management

- ✓ Light and versatile for mobile devices
- ✓ Reliable in operations outside zones of connectivity
- ✓ Smart and Intuitive enough to provide data in ways to give executives and officers information to make good business decisions





# Features

## Safety Compliance

- ✓ Inspection Forms
- ✓ Inspection Scheduling
- ✓ Certification Document Creation, Storage & History
- ✓ Inspection Status & History
- ✓ IC Test Bench Pressure Testing Software



## Asset Tracking

- ✓ Asset Categories, Identification & Details
- ✓ Location Tracking (App Entry or GPS From Handheld)
- ✓ Free Mobile Apps for team or partners
- ✓ Inventory Count & Reporting
- ✓ Safety & Usability Status
- ✓ Parent-Child Functionality





# Core Technology

Online Certs  
And  
Reporting



## RFID

- ✓ Accurate
- ✓ Efficient
- ✓ Digital Validation
- ✓ Logistics



## Apps

- ✓ Identification
- ✓ Location
- ✓ Inspection
- ✓ Re-order



## Test Bench Integration

- ✓ Capture test results
- ✓ Automate certificate generation, upload, and assignment
- ✓ Reduce errors & save time





# Durable RFID Tags

Ultra-durable InfoChip Technology

- Chip inlay
- Antennae design
- Polycarbonate encasements
- Metal reinforcement

Ultra High Frequency (UHF) (860-960MHz)

High Frequency 13.56 MHz NFC compatible



## UV / Chemical / Corrosion

Corrosion tested for eight months with 100% read performance



## Heat

-40°F to 390°F  
-40°C to 200°C

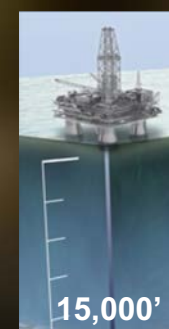


## Magnaflux & Gamma

Voltage to 75kv

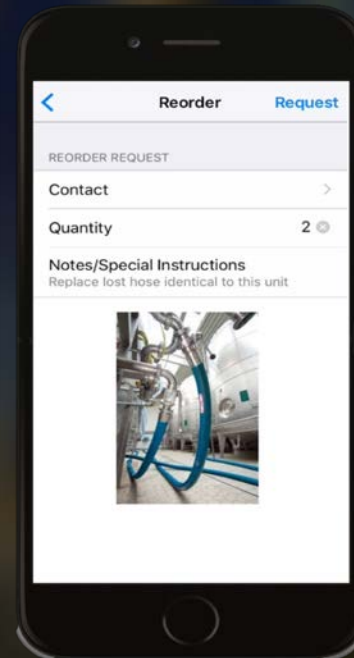
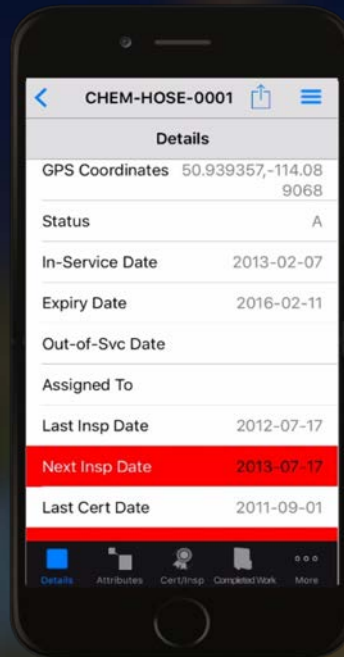


## Downhole & Deep Sea





# ID & Inspect with Ease



- ✓ Identify with RFID chip or serial number
- ✓ Item details: inside diameter, maximum working pressure, part number, industry standards that the hose meets, mfg date, inspection/cert status, etc.
- ✓ View service history
- ✓ Access latest certificate
- ✓ Perform inspections
- ✓ Scrap out of service items
- ✓ Use reorder form



# Pressure Test







10" Industrial Hose Crimper



12" Industrial Hose Crimper



2" hydraulic 4 wire Hose Crimper



1-1/4" 4 wire-1-1/2" 2 wire  
Hydraulic Hose Crimper



Workbench  
set ups

Check out the website

Let us know what you  
wish for

We will create the best  
solution for you.

Website:  
<https://www.op-srl.it>



Automatic hose cutting machine



3''6 spiral cut off machine



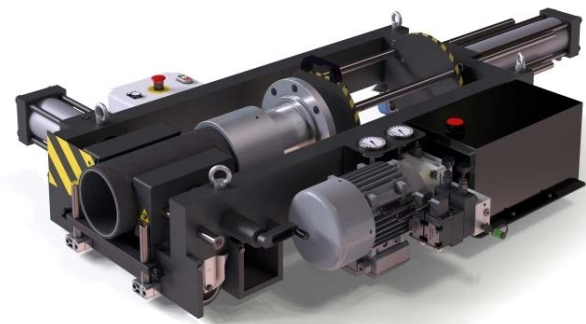
Hose meter



80mm Hose pricker



Motorised  
Hose  
Winder



8'' hose fitting inserter

Check out the website

Website: <https://www.op-srl.it>

## Equipment



Hose Testing 1200 bar



Hose Testing 800 bar Pallet Load



Hose Testing 4500 bar

Check out the website

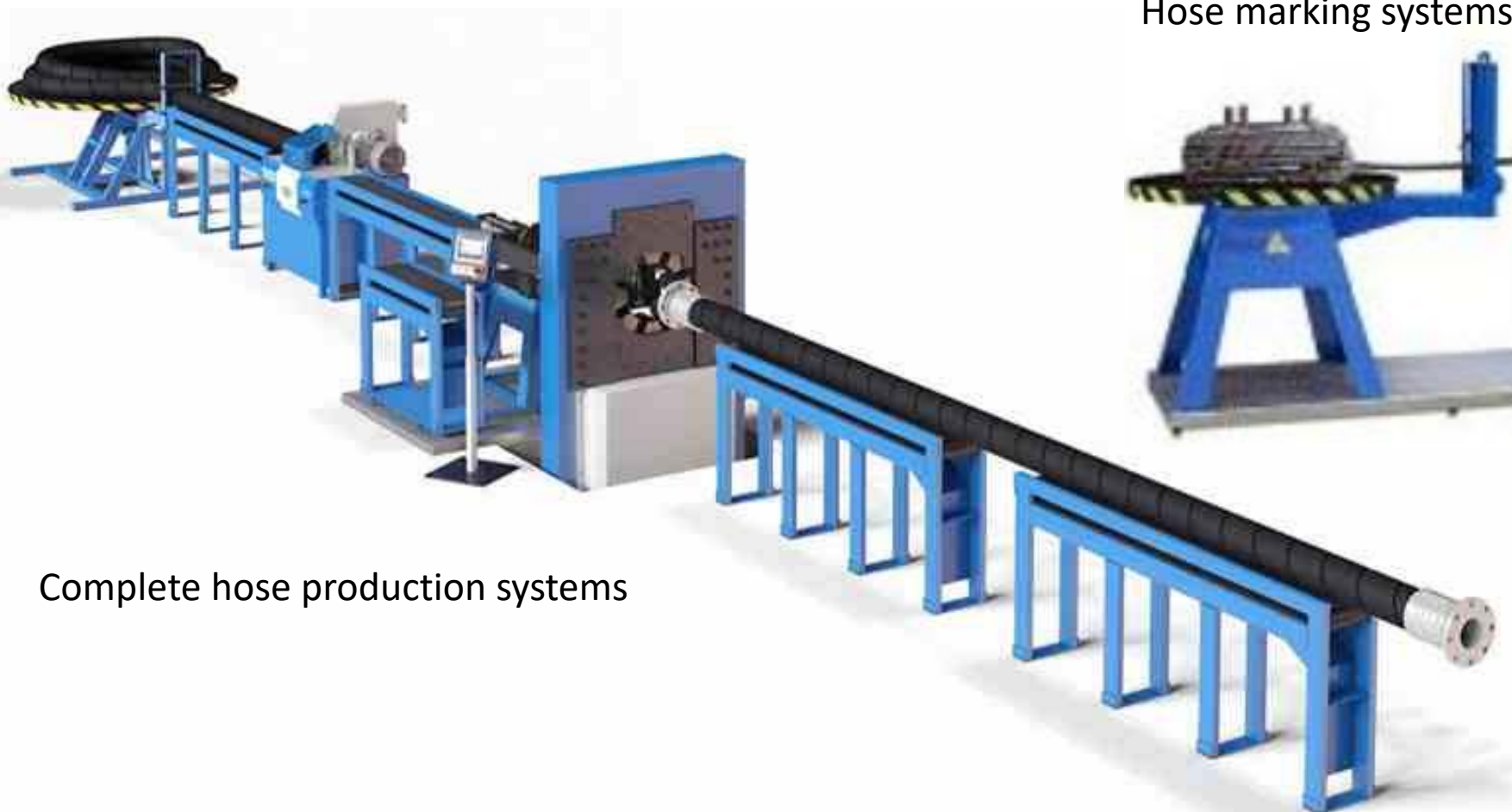
Website: <https://www.op-srl.it>



Hose marking systems



Complete hose production systems



Check out  
the  
website

Website: <https://www.op-srl.it>

## Equipment

Bending, flaring,  
deburring and  
cutting machine  
for tube



Hose cleaning  
machines



Burst testing  
machine



Thread Checkers

Check out the website

Website: <https://www.op-srl.it>

