

# OIL & GAS DRILLING



HIGH QUALITY PRODUCTS FOR OIL & GAS DRILLING

## OIL & GAS DRILLING AT MANULI HYDRAULICS

Founded on the experience of 80 years of design and manufacture of high-pressure hydraulic connectors, the Manuli Hydraulics Drilling products range was formed with the aim of driving value into the customers' drilling processes. With a dedicated team of design engineers and experienced sales representatives, Manuli Hydraulics is fully geared to ensuring that the customers' precise needs are met with reliable, durable and innovative solutions.

Our drilling products manufacturing and assembly facilities operate a quality assurance system which is fully compliant with API Q1 (9th Edition) requirements, and which allows us to exercise complete control of all aspects of the hose assembly build and validation process.

### ROTARY AND VIBRATOR HOSE

Used to convey high-pressure drilling liquids (mud) in drilling rigs, rotary and vibrator hoses are at the core of the drilling process. **GoldenDrill** hoses by Manuli come in a variety of sizes (between 2" and 4") and pressure ratings (4,000psi to 7,500psi) to suit most applications.

Manufactured to API 7K, FSL 1, and drawing on Manuli's extensive experience of developing high-quality hydraulic connectors, this is a hose to redefine industry expectations.

Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
API 7K, FSL 1, ISO 14693	UP TO 45M	2" TO 3" 3" TO 4" 2" TO 4" (†)	GRADE C - 4,000PSI GRADE D - 5,000PSI GRADE E - 7,500PSI	-20°C TO +100°C -46°C TO +100°C

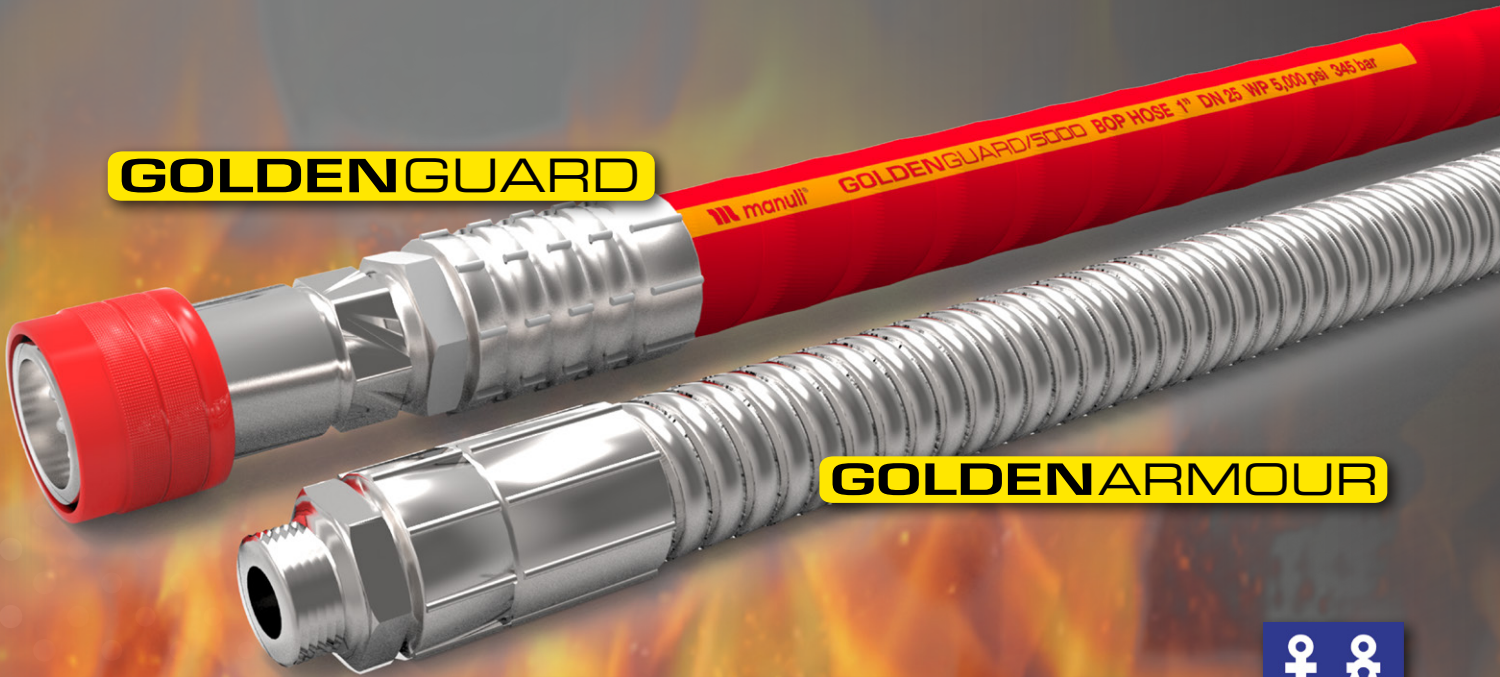
(†) Grade E - 4" available soon

# GOLDEN drill





## GOLDENGUARD



## GOLDENARMOUR



### BOP HOSES AND QUICK COUPLINGS

BOP equipment on drilling rigs is essential to ensure safety in the field. Required to perform under the harshest operational conditions, these systems can mean the difference between life and death for drilling rig operators.

Manuli Hydraulics have developed two hose solutions designed specifically for BOP applications:

**GoldenGuard** - Available in both 3,000psi and 5,000psi ratings, this hose has a unique cover compound, Brickcoat™, which allows it to exceed the fire test requirements of API 16D specifications and is also DNV type approved.

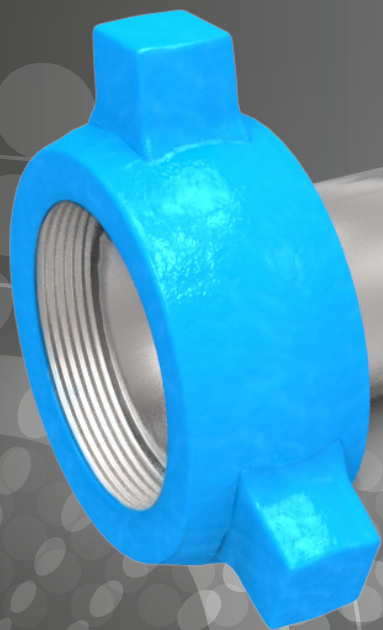
Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
API 16D	45M	3/4" AND 1" 3/8" TO 2"	3,000PSI 5,000PSI	-40°C TO +121°C

**GoldenArmour** - A premium-quality hydraulic hose enclosed in a stainless-steel armoured sleeve. API 16D compliant, this solution also offers outstanding resistance to abrasion and mechanical damage.

Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
API 16D	45M	1/2" TO 2"	5,000PSI	-40°C TO +121°C

In addition, Manuli Hydraulics offers a range of dedicated BOP quick couplings as part of our Q.Safe range, which exceed the fire test requirements of API 16D and are painted red for easy identification.

Product	Standards	Safety Factor	Sizes	Working Pressure	Temperature Ranges
MQS-BOP	ISO 7241B	4:1	1/2", 3/4" AND 1"	5,000PSI	-20°C TO +200°C
MQS-FS		4:1	5/8" TO 1 1/2"	5,000PSI	-30°C TO +110°C



## GOLDENCEMENT

### CEMENT HOSE

**GoldenCement** hoses by Manuli Hydraulics have been specifically designed to withstand the high pressures required when conveying the cement slurries used to fix drill casings in place. Equally suited to both land and off-shore applications, and manufactured to API 7K, FSL 0, this is a high performance hose that is equal to the toughest challenges.

Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
API 7K, FSL 0, ISO 14693	UP TO 45M	2" TO 3"	10,000PSI	-20°C TO +100°C -46°C TO +100°C



## GOLDENdrill/H

### GREASE INJECTION HOSE

**GoldenDrill/H** hoses comprise of a high quality rubber hose with a compact wire spiral structure, allowing for high flexibility, excellent kink resistance and outstanding performance when compared to thermoplastic solutions.

Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
MANULI STANDARD	LONGER THAN 50FT; 100FT FIXED LENGTH	1/2"	15,000PSI	-40°C TO +100°C



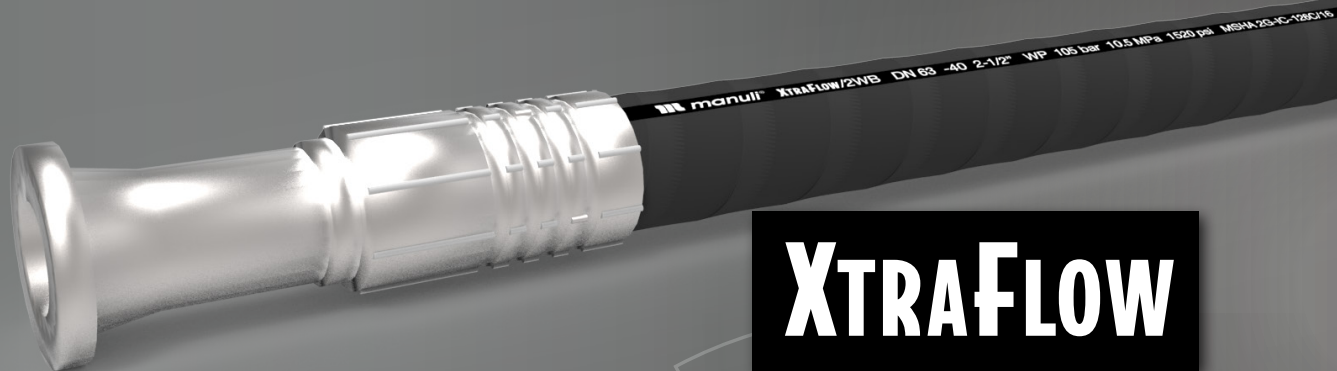


**GOLDEN**wave

## MOTION COMPENSATOR HOSE

**GoldenWave** hoses are the perfect solution for off-shore rigs which require a reliable solution for connecting the pressure accumulator to the hydraulic cylinders on the derrick, whilst compensating for the rig movement.

Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
ISO 18752-B, SAE J517	UP TO 45M	2" TO 3"	3,000PSI	-40°C TO +100°C



**XTRA**FLOW

## BULK MATERIAL TRANSFER HOSE

Working with high flow rates, **XtraFlow** hoses offer the perfect solution for off-shore and industrial fluid transfer applications. These hard wall hoses are supplied with compatible fittings for optimum reliability and performance. All products are lab tested and validated in the field.

Standards	Lengths	Sizes	Working Pressure	Temperature Ranges
ISO 18752	UP TO 45M	2½" TO 4"	500PSI TO 2,000PSI	-40°C TO +100°C

## CONNECTORS, FITTINGS AND ACCESSORIES

Manuli Hydraulics offers a wide selection of specially designed fitting termination ends for rotary drilling applications. With a range of bevelled to weld fittings with integrated inserts and ferrules, we can supply any termination end required. All welding is carried out by qualified engineers according to ASME IX procedures.

Termination ends comply with API 16A, API 6A, API 5B, API 5L, API 16BX, API 6B and API 6BX.

Fittings design, qualifications and control methods comply with API 7K, API 7L, ASME IX, ASTM and E709. In addition Manuli Hydraulics also offers a wide range of accessories including lift eyes, safety clamps and metal sleeves in both metric and imperial sizes.



[www.manuli-hydraulics.com/conveyors](http://www.manuli-hydraulics.com/conveyors)



Global Marketing Office  
Email: [marketing@manuli-hydraulics.com](mailto:marketing@manuli-hydraulics.com)

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