



Oil & Marine Hoses



At Al Naba Hydraulics, we specialize in providing high-quality Subsea, Submarine floating hoses, composite hoses, Mud/Cement drilling hoses, and BOP hoses that are API certified.

Our hoses are designed and manufactured to meet the highest standards of safety and reliability, ensuring that they can withstand the most demanding applications and environments. We take pride in our reputation for excellence in the industry and are committed to providing our customers with the best possible products and services.

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HYDRAULICS**

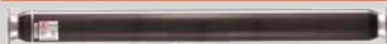


Technical features

- For high demanding submarine configurations
- API Spec 17K certified (ISO 13628-10)
- Compact nippleless reinforced flanges with integrated bending stiffener
- Reinforced structure with steel cable layers and steel rings
- Continuous inner liner and integrated gaskets
- Design pressure up to 100 bar depending on diameter
- Diameter up to 600mm (24"), smooth bore.
- Hose section length up to 12.2m (40')

Single Carcass Hoses

SUBMARINE HOSES



One end reinforced submarine hose



Mainline submarine hose



Tail submarine hose



Reducer submarine hose



Fully reinforced submarine hose



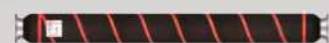
Tanker rail submarine hose

Submarine hoses can be built with location collars for the application of deepwater floats on request

FLOATING HOSES



One end reinforced half floating hose



Mainline submarine hose



Tail full floating hose



Reducer full floating hose



Fully reinforced full floating hose



Tanker rail full dumbbell floating hose

Double Carcass Hoses

SUBMARINE HOSES



One end reinforced submarine hose

Mainline submarine hose

Tail submarine hose

Reducer submarine hose

Fully reinforced submarine hose

Tanker rail submarine hose

Submarine hoses can be built with location collars for the application of deepwater floats on request

FLOATING HOSES



One end reinforced half floating hose

Mainline full floating hose

Tail full floating hose

Reducer full floating hose

Fully reinforced full floating hose

Tanker rail full dumbbell floating hose

Hoses for special applications can be manufactured on request



BOP HOSES



Eaton is excited to announce an extension to its industrial hose portfolio by introducing the new blowout preventer (BOP) hose.

The Eaton EC556 blowout preventer hose system is a critical part of oil & gas drilling and exploration equipment, where reliability and safety are of utmost importance.

The EC556 combines high-performing spiral-reinforced hose with special flame-resistant rubber and is qualified with our reliable 1W-ISC fittings (carbon steel and stainless steel).

Eaton EC556 is rated for 350 bar (5000 psi) constant working pressure in all sizes ½" through 1 ½", meets or exceeds the requirements of API 16D - minimum of 700°C (1300°F) for 5 minutes - and is certified by Lloyd's Registry.

The specially-designed cover is abrasion-resistant and allows for greater flexibility and is easier to route than steel-armored offerings.

Our hoses are proudly assembled by Eaton-certified partners to meet every unique customer need.

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Part Number	Hose I.D.			Hose O.D.		Max. Operating Pressure		Burst Pressure		Min. Bend Radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	Lb/ft
EC556-12	19	19	0.75	32	1.26	350	5000	1400	20000	280	11	1.58	11.4
EC556-16	25	25.4	1	38.3	1.5	350	5000	1400	20000	340	13.4	2	14.6
EC556-20	32	31.7	1.25	45.1	1.77	350	5000	1400	20000	460	18.1	2.47	17.8
EC556-24	38	38	1.5	56.4	2.12	350	5000	1400	20000	500	19.6	4.64	33.5

Fittings

Internal Skive Crimp (ISC) 1W series fitting for all sizes -12,-16, -20,-24

Operating Temperature

-40°C to +100°C
(-40°F to +212°F)

Agency Listings

Lloyd's certified
API 16D flame resistant

Construction

Black, oil resistant synthetic rubber tube
Multiple high tensile wire spiral reinforcement layers
Red, specially compounded, flame resistant cover

Application

For prevention of pressure escape at the wellhead during drilling-completion operations
Critical component of blowout preventer system
On-shore oil and gas exploration

EC556 BOP FITTINGS AND STAINLESS STEEL PROTECTIVE SLEEVE



N.P.T.F Male pipe stainless steel fittings

Part number	Hose size		Terminal end dash size	Thread	A		D cut off factor		E		Hex 1
	Dash	DN			mm	in	mm	in	mm	in	
1W12MP12BA	-12	19	-12	3/4-12	92.1	3.6	40.1	1.6	15.1	0.6	30
1W16MP16BA	-16	25	-16	1-11 1/2	114.5	4.5	47.8	1.9	19.6	0.8	36
1W20MP20BA	-20	32	-20	1 1/4-11 1/2	127.2	5.0	52.3	2.1	25.5	1.0	46
1W24MP24BA	-24	38	-24	1 1/2-11 1/2	150.5	5.9	55.5	2.2	30.1	1.2	50



Quick connect couplings for BOP application

FD85 Series Thread to Connect

The Eaton FD85 Series is a thread to connect coupling most commonly used in Oil and Gas applications, but can also be found on demanding applications on both mobile and stationary equipment where operating pressures of 5,000 psi are present.

Product Features

Thread to connect feature allows for use in high vibration and impulse applications

Standard body material: Zinc trivalent plated carbon steel. Stainless steel construction available upon request

Connect under pressure capability up to 5,000 psi (345 bar)

Standard seal material: Buna-N. FKM seals are available upon request

Wing nut and hex flat design allows for easy connection and disconnection

3/4" design is offered in a hex nut design

Female NPTF and BSPP ends available





MUD/CEMENT DRILLING HOSES

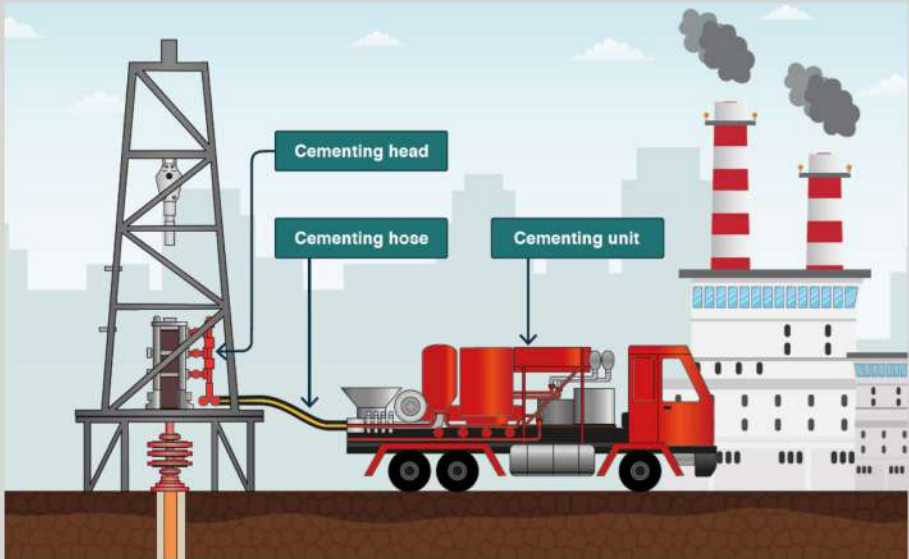
CEMENTING APPLICATIONS

The harsh environmental condition in the drilling fields required high quality products, safety, reliability and durability. Oil well cementing hose assemblies is the solution for cementing operations to connect the high pressure cementing pump to the cementing head.

High abrasion resistance inner tube special compound.

Oil well cementing 10K is provided with a Supertuff cover for the most demanding abrasion requirements.

Easy and faster installation compared to the iron pipe hoses.



DRILLING

ROTARY & VIBRATOR 5K



Rotary 5.000 psi
API SPEC 7K - Grade D - FSL2

Tube: oil and drilling mud resistant synthetic rubber.

Reinforcement: multiple layers of spiralled high tensile steel wire.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: Rotary drilling, Vibrator and Motion Compensator.

Temperature: -20 °C +100 °C (-4 °F +212 °F)

Length: 47,25 m (155 ft) max

ROTARY & VIBRATOR 7.5K



Rotary 7.500 psi
API SPEC 7K - Grade E - FSL2

Tube: oil and drilling mud resistant synthetic rubber.

Reinforcement: multiple layers of spiralled high tensile steel wire.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: Rotary drilling, Vibrator and Motion Compensator.

Temperature: -20 °C +100 °C (-4 °F +212 °F)

Length: 47,25 m (155 ft) max

RIG - OIL WELL CEMENTING



MSHA

Cementing 5.000 psi
API Spec 7K - FSL0

Tube: cement, oil and drilling mud resistant synthetic rubber.

Reinforcement: six high tensile steel spirals.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
"Minetuff" cover.

Application: high pressure cement slurry transfer between pump manifold and cementing head.

Temperature: -20 °C +121 °C (-4 °F +250 °F)

Length: 61 m (200 ft) max

Notes: Available with integral Fig. 1502 coupling or API threaded male extra-long hexagon fittings.



RIG - OIL WELL CEMENTING 10K SUPERTUFF



MSHA

Cementing 10.000 psi
API Spec 7K - FSL0

Tube: cement, oil and drilling mud resistant synthetic rubber.

Reinforcement: six high tensile steel spirals.

Cover: special "Supertuff" cover for excellent abrasion resistance and long service life in heavy duty applications.

Application: high pressure cement slurry transfer between pump manifold and cementing head.

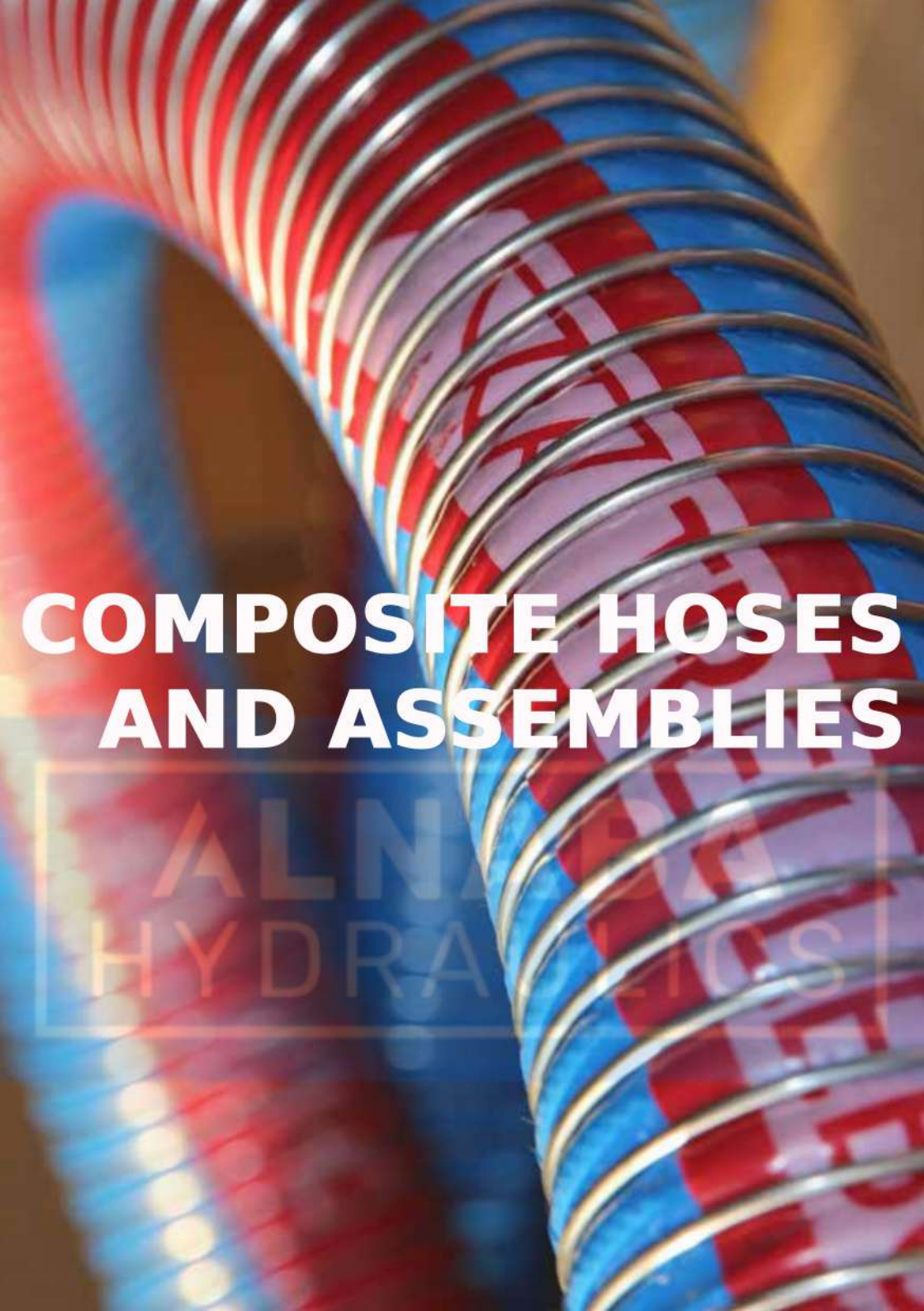
Temperature: -20 °C +121 °C (-4 °F +250 °F)

Length: 61 m (200 ft) max

Notes: Fully API 7K approved when supplied with Integral 2" 1502 Hammer Union couplings. Also available with API threaded male extra-long hexagon fittings.



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COMPOSITE HOSES AND ASSEMBLIES

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A FIELD-PROVEN TECHNOLOGY

DESIGN



TRELLFLEX composite hoses are designed from multi layers of foils wrapped between two steel wire helix.

The wires coating and the type of foil (PP, PA, PTFE) are optimized to resist to petroleum, chemicals and the application requirements.

DIAMETERS

Diameters can range from 25 to 250 mm.

Should your application require any specific designs, we can also offer tailor-made solutions to meet your specific needs, please consult us.

TRELLFLEX RANGE FOR OIL AND PETROLEUM TRANSFERS	INNER TUBE	WORKING PRESSURE			HELIX	TEMPERATURE	STANDARD
		4 bar	10 bar	14 bar			
TRELLFLEX OIL	 PP Polypropylene		✓	✓	AA AG GG	-30°C/+100°C	EN 13765
TRELLFLEX BIOFUEL	 PA Polyamide			✓	SS GG	-30°C/+100°C	EN 13765
TRELLFLEX JET	 PA Polyamide			✓	SS GG	-30°C/+100°C	EN 13765
TRELLFLEX OIL VR	 PP Polypropylene	✓			PG	-30°C/+100°C	EN 13765
TRELLFLEX ROOF DRAIN	 PP Polypropylene			✓	SS	-30°C/+100°C	EN 13765

COUPLINGS & ACCESSORIES

END CONNECTION

With 40 years experience, Trelleborg Fluid Handling Solutions can supply any tailor-made hose assemblies to suit your end connection requirements, like flanged, threaded, 1/2 symmetrical, camlock couplings, etc.

ACCESSORIES

A complete range of accessories is available on request: dry disconnect coupling, isolating flange, supporting device, etc.





TRELLEBORG
FLUID HANDLING SOLUTIONS



Industrial hoses



Oil & Gas hoses



Expansion joints



Rubber sheeting and matting





EATON

Danfoss


TRELLEBORG

Faster
easier to connect.

 **Aeroquip**

 **TRANSFER OIL**
Pure Fluid Attitude


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