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Polyurethane Engineering

OFFICIAL REPRESENTATIVE IN BRAZIL

INDUSTRIAL SOLUTIONS

KELITONG – OFFICIAL REPRESENTATIVE IN BRAZIL



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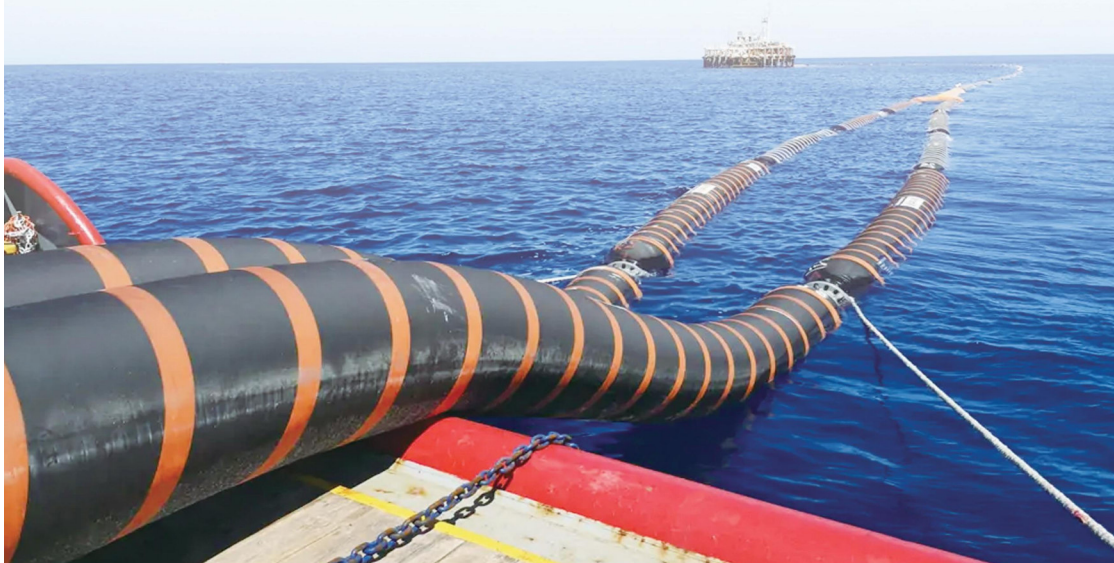
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KELIT



NG

复合软管

COMPOSITE HOSE

工业软管

INDUSTRIAL HOSE

漂浮软管

OFFSHORE HOSE

衡水科力通软管技术有限公司

HENGSHUI KELITONG HYDRAULIC RUBBER TECHNOLOGY CO.,LTD

KELITONG INDUSTRIAL



发展历程

CORPORATE MILESTONES

2001: Corporate Establishment

Hengshui Kelitong Hydraulic Rubber Technology Co., Ltd. was established in 2001, covering an area of 23000 square meters. It is a professional manufacturer engaged in the research and development, production, sales, and service of Industrial Rubber Hoses, Flexible Composite Hoses, Chemical & Food Grade Hose, Dredging Hose and Marine Floating Hoses.

2016: Initiate Strategic Transformation

In 2016, we start transforming systematic products from traditional handmade products to high-quality industrial and marine engineering hoses

2019: Successful Transformation Starting High-end Product Development

In 2019, overall improvement has been completed, we set up over 10 Italian VP automated production lines for high quality industrial rubber hoses, our systematic products has been successfully expanded to Marine Floating Hoses, STS Hoses, Submarine Hose ,LPG hoses, and other offshore or onshore hoses



2024: Initiate Marine Offshore Hose R&D Center Establishment

In 2024, Kelitong Company strictly follows international OCIMF 2009 standards, invest a lot of money to built a Technology R&D Center for marine floating hose. In order to simulating complex marine environments, we customized Dynamic Fatigue Testing machines including Bending Machine, Tensile Machine, Torsion Machine and other testing machines including Vacuum Testing Machine, Pulse Testing Machine, and so on. We also set up the Rubber Physical and Chemical Laboratory to control the rubber raw materials quality

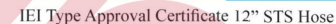
2025: Initiate IUR Collaboration Projects

In 2025, Kelitong company signed a contract with Jiangsu Marine University of Science and Technology, cooperation between school and enterprise to established the postgraduate practice base, They will provided us with strong technical support on Marine Hydrodynamics Analysis and Marine Floating Analysis.

2026: Initiate Type Test Certification & ISO Certification

In 2026, Kelitong Company obtained the ABS and BV Type Approval Prototype Test Certificates for marine floating hoses, ISO9001 Quality Management System, ISO14001 Environmental Management System, ISO45001 Occupational Health and Safety Management System Certification.







精密检测设施

PRECISION TESTING FACILITIES



Physical and Chemical Laboratory



Crush Testing Machine



Vacuum Pressure Test Machine



Hydrostatic Testing Machine



专业检测中心

PROFESSIONAL TESTING CENTER



Bending Test Machine



Pressure Pulse Test Machine



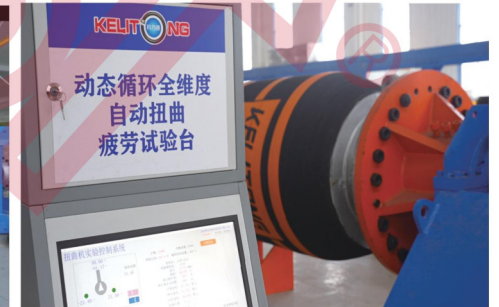
Lifting Lug Test Machine



Dynamic Bend Testing Machine



Dynamic Tensile Testing Machine



Dynamic Torsion Testing Machine

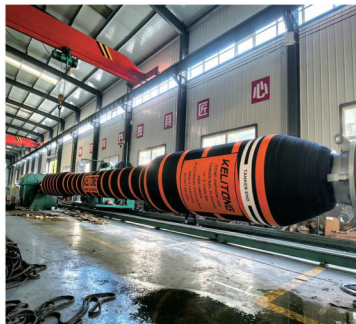
客户见证

CUSTOMER TESTIMONIALS

科力通 & 江苏科技大学浮式防波堤军工项目 KELITONG & FLOATING BREAKWATER MILITARY PROJECT



科力通 & 印度 ONGC 国家石油天然气公司 FPSO 外输软管项目 KELITONG & INDIAN ONGC FPSO OFFSHORE FLOATING HOSE PROJECT



全球合作伙伴共同见证 PROVEN BY GLOBAL PARTNERS

科力通 & 非洲蒙巴萨码头改造项目 KELITONG & AFRICA MOMBASA PORT RENOVATION PROJECT



科力通 & 马来西亚 16 寸船对船输油软管项目 KELITONG & MALAYSIA 16INCH STS HOSE PROJECT





海上系泊外输软管

MARINE HOSE FOR OFFSHORE MOORINGS

SCOPE OF APPLICATION

Kelitong marine hoses are used for crude oil and petroleum product loading and unloading offshore moorings systems.

Single-carriage and double carriage structural designs are available for the hoses.

This hose is fully conform to a prototype in reference and according to OCIMF GMPHOM 2009 (Guide to Manufacturing and Purchasing Hoses for Offshore Moorings).

Hose working pressure grades include 15 bar, 19 bar, 21 bar or higher specifications for special applications and customized requirements.

Currently, Kelitong is capable of manufacturing three hose series: Floating series, Submarine series and Catenary series.

CONSTRUCTION

The main structure of Kelitong marine hose consists of the following components:

- 1: Smooth and flat inner rubber layer, resistant to various hydrocarbons, with a maximum allowable aromatic hydrocarbon content of 60%.
- 2: Reinforcement layers capable of withstanding high pressure, strong tensile force and intense torsional force, as well as textile reinforcement layers and spiral steel wires with excellent vacuum resistance and bending resistance.
- 3: Outer rubber layer featuring seawater resistance, anti-aging performance, UV resistance and superior watertightness (closed-cell foam floats can be attached upon request)

Compared with Single Carriage Hoses, Double Carriage Hoses feature an additional auxiliary hose body to trap fluid spilled from slow seepage or burst of the main hose, along with supporting leak detectors.

TECHNICAL SPECIFICATION

Electrical Continuity: Continuous / Discontinuous

Rate Working Pressure: 15bar/19bar/21bar

Primary Carriage Safety Factor: 1:5

Secondary Carriage Safety Factor: 1:2

Vacuum Pressure: -0.85bar

Maximum Flow Velocity: 21 m/s

Fluid Temperature range: -20°C~82°C

Ambient Temperature range: -29°C/+52°C

Maximum Temporary Elongation: 2.5%

Maximum Permanent Elongation: 0.7%

Minimum Bending Radius: 4D

Minimum Reserve of Buoyancy: 20% or as request.

Flange Type: ASME B16.5 CL150 or CL300 Welding Neck Flat Face (other type available on request)

Flange Material: ASTM A105 with a carbon of maximum 0.25% (other materials available on request)

Flange Coating: Hot dip galvanized according to EN ISO 1461 (610 gr./sqm.)

Gasket Contact Surface: Finished according to EN 1759-1

Nipple Material: ASTM A-106 grade A or B or API 5L grade A or 8 killed or semi-killed steel with a carbon content of maximum 0.23%

Butt Weld: Radiographic inspection shall be carried out in accordance with EN 1435 or ASME VIII UW-51B.

Fillet Weld: MPI according to ASME VII app.6

CERTIFICATIONS & APPROVALS

Each Hose has a test certificate in accordance with UNI EN 10204 3,1,B are included and will be issued by our Quality Inspection Department

Classification society inspection reports can be issued in accordance with customers' requirements.



产品范围

PRODUCT RANGE

漂浮软管 FLOATING HOSE

半浮式端部加强型 (浮筒端首件管)

End Reinforced Half Floating
(i.e. First off Buoy)



漂浮式主线型

Main Line Floating



漂浮式缩径型

Reducing Floating



漂浮式尾管

Tail Floating



漂浮式油轮围栏型

Tanker Rail Floating



水下管 SUBMARINE HOSE

无挡圈主线型

Main Line without Float Collars



含挡圈主线型

Main Line with Float Collars



悬链管 CATENARY HOSE

端部加强型

End Reinforced



主线型

Main Line



控制浮力型

Controlled Buoyancy





船用驳油软管

MARINE SHIP TO SHIP OIL HOSE



SCOPE OF APPLICATION

Flanged heavy-duty oil discharge hoses are designed for sludge discharge and other non-vacuum suction operations. Widely used for loading and unloading at tank trucks, oil depots, oilfields and ship-to-ship (STS) transfer operations, to convey gasoline, crude oil and other petroleum-based products. Suitable for media with aromatic content up to 60%. Its wide corrugated outer cover delivers excellent kink resistance and outstanding flexibility. The product complies with OCIMF EN 1765:2018 Type S15 or L15 specifications.

PRODUCT SPECIFICATIONS

Inner Tube: Black high-grade oil-resistant nitrile rubber (NBR).

Outer Cover: Black neoprene rubber, resistant to abrasion, oil, weathering and ozone (CR).

Reinforcement: Multiple layers of polyester textile cords with helix steel wire reinforced and static conductive copper wire.

Working Pressure: 15 Bar

Vacuum Rating: -0.85 Bar

Burst Pressure: 60 Bar

Minimum Bending Radius: 4D

Operating Temperature: -20°F ~ 180°F (-30°C ~ 82°C)

Size	I.D mm	O.D mm		Weight in Air kg		
		Head	Body	L=9.1m	L=10.7m	L=11.8m
6"	152	250	210	335	390	450
8"	203	310	250	533	650	700
10"	254	380	340	630	750	840
12"	305	400	360	835	980	1100
16"	386	520	460	1500	1700	1900

(Consult Kelitong engineers for more valid technical details)



船用 LPG/LNG 软管

MARINE LPG/LNG HOSE



DESCRIPTION

Marine LPG/LNG Composite Hose adopts multi-layer different polymer materials and 316L stainless steel helix. Manufactured with state-of-the-art technology, it provides a reliable and safe solution for cryogenic media service. It withstands temperatures down to -50°C (-196°C for LNG service) with a maximum working pressure of 25 bar. Typical applications include the transfer of liquefied petroleum gas and ammonia for tanker trucks, rail tank wagons and marine operations, including bunkering and ship-to-ship transfers.

PRODUCT SPECIFICATIONS

Inner Wire: Stainless Steel (316L)

Outer Wire: Stainless Steel (316L)

Inner Reinforcement: Polyamide

Outer Cover: PVC Coating

Standard: EN13766:2010

Temperature Range: -196°C ~ 100°C

Safety Factor: 4:1

Vacuum Rating: 0.9 Bar

Minimum Bending Radius: 4D



MARINE LPG/LNG HOSE TECHNICAL DATA SHEET									
Inner Diameter (in)	1	1-1/2	2	2-1/2	3	4	6	8	10
MBR (mm)	150	200	200	200	250	500	670	930	2550
Weight (Kg/m)	1,60	1,80	2,20	2,65	3,80	5,70	16,40	28,70	31,00

(Consult Kelitong engineers for more valid technical details)



卷盘捕鱼泵软管

FISHING PUMP REELING FLEXIBLE HOSE



SCOPE OF APPLICATION

Kelitong fishing pump hoses are used for offshore fishing catch transportation, hose features an ultra-smooth inner wall, specially engineered for offshore fishing and salvage operations. Its smooth lining minimizes abrasion and injury to aquatic products during fish and shrimp transportation, delivering gentle conveying conditions for catches. The rubber materials are non-toxic and environmentally benign. The custom-formulated outer layer maintains excellent flexibility stably even under extreme low-temperature conditions such as the Antarctic environment.

PRODUCT SPECIFICATIONS

Inner Rubber: Black synthetic rubber, featuring seawater resistance and anti-aging performance.

Reinforcement: High-tenacity polyester textile plies combined with spiral steel wire reinforcement.

Outer Rubber: Black fabric-textured synthetic rubber, with outstanding resistance to abrasion, ozone aging, weather aging and seawater corrosion.

Minimum Working Pressure: 40Bar

Working Temperature: -40°C ~ +80°C

ADVANTAGES

- Designed especially for hard external stresses.
- Extremely flexible and robust, especially in the cold.
- Inner tube compound is highly resistant to fish fat.
- Smooth tube and no sharp edges inside the hose means no damage on the fish.

Size	I.D mm	O.D mm		Weight in Air kg		
		Head	Body	L=9.1m	L=10.7m	L=11.8m
6"	152	250	210	335	390	450
8"	203	310	250	533	650	700
10"	254	380	340	630	750	840
12"	305	400	360	835	980	1100
16"	386	520	460	1500	1700	1900

(Consult Kelitong engineers for more valid technical details)



重型吸排水管

HEAVY DUTY WATER SUCTION DISCHARGE HOSE



SCOPE OF APPLICATION

Specially designed for seawater lifting and conveying systems on offshore platforms. The hose connects the submersible pump of the seawater lifting winch. While supporting its own weight, the hose is structurally reinforced to withstand the long-term static load of the submersible pump. The pump can be lifted and retracted directly via the hose, eliminating the need for auxiliary hoisting systems and simplifying offshore operational equipment.

PRODUCT SPECIFICATIONS

Inner Tube: Black nitrile rubber, featuring seawater resistance, high-temperature resistance, acid and alkali resistance.

Reinforcement: High-tensile layers combined and high-strength helical steel wire reinforcement.

Outer Cover: Black neoprene compound with excellent flame retardancy, seawater resistance, abrasion resistance and aging resistance.

Temperature Range: -20°C ~ +100°C

Inner Diameter		Outer Diameter	W.P		B.P		Safety Factor	Vacuum Pressure	MBR	Weight	Length	Rate Tensile Loads
Inch	mm		Bar	PSI	Bar	PSI		Bar	mm	Kg/m	Mtr	kN
3/4"	19	31	20	300	80	1200	1:4	-0.85	80	0.6	60	3
1 "	25	37	20	300	80	1200	1:4	-0.85	100	0.9	60	5
1-1/4"	32	45	20	300	80	1200	1:4	-0.85	120	1.1	60	6.5
1-1/2"	38	52	20	300	80	1200	1:4	-0.85	150	1.5	60	7.5
2"	51	66	20	300	80	1200	1:4	-0.85	200	2.1	60	10
2-1/2"	64	78	20	300	80	1200	1:4	-0.85	250	2.6	60	15
3"	76	92	20	300	80	1200	1:4	-0.85	300	3.7	60	20
4"	102	121	20	300	80	1200	1:4	-0.85	400	4.9	60	28
6"	152	172	20	300	80	1200	1:4	-0.85	600	7.9	60	38

(Consult Kelitong engineers for more valid technical details)



食品级吸排胶管

FOOD GRADE SUCTION DISCHARGE HOSE



SCOPE OF APPLICATION

Potable water food grade hoses comply with FDA standards for conveying milk, beer, red wine and other liquid food media. Suitable for food, pharmaceutical and biotechnology industries.

Matching food-grade couplings are manufactured from SS316L stainless steel with polished surfaces to meet food-grade requirements.

PRODUCT SPECIFICATIONS

Inner Tube: White NR/NBR/EPDM compound, non-toxic and tasteless FDA approval

Outer Cover: Blue EPDM compound, non-toxic and tasteless

Reinforcement: Multiple layers of polyester textile cords with helix wire

Inner Diameter		Outer Diameter		W.P		B.P		Safety Factor	Vacuum Pressure	MBR	Weight	Length
Inch	mm	Inch	mm	Bar	PSI	Bar	PSI		Bar	mm	Kg/m	Mtr
3/4"	19	1.22	31	20	300	80	1200	1:4	-0.85	80	0.6	60
1 "	25	1.45	37	20	300	80	1200	1:4	-0.85	100	0.9	60
1-1/4"	32	1.77	45	20	300	80	1200	1:4	-0.85	120	1.1	60
1-1/2"	38	2.05	52	20	300	80	1200	1:4	-0.85	150	1.5	60
2"	51	2.60	66	20	300	80	1200	1:4	-0.85	200	2.1	60
2-1/2"	64	3.07	78	20	300	80	1200	1:4	-0.85	250	2.6	60
3"	76	3.62	92	20	300	80	1200	1:4	-0.85	300	3.7	60
4"	102	4.76	121	20	300	80	1200	1:4	-0.85	400	4.9	60
6"	152	6.77	172	20	300	80	1200	1:4	-0.85	600	7.9	60

化学品加注软管软管

CHEMICAL RUBBER FLEXIBLE HOSE



SCOPE OF APPLICATION

Kelitong chemical rubber flexible hose is widely deployed for chemical liquid suction and delivery and offshore petrochemical. The hose is compatible with acids, alkalis, alcohols, esters and various industrial solvents, serving chemical transportation, marine new energy fuel bunkering, offshore petrochemical exploitation and port terminal logistics industries.

PRODUCT SPECIFICATIONS

Lining: Dupont proprietary PTFE material, double extruded transparent/white lining with ultra-smooth inner surface. It features excellent high-temperature resistance, mechanical stress resistance and oxidation resistance.

Outer Rubber: Colored EPDM rubber, electrically conductive, abrasion-resistant, anti-ageing and ozone-resistant.

Reinforcement: Multi-layer polyester textile cords with copper wires for static dissipation, reinforced with embedded spiral steel wire.

Working Temperature: -30°C ~ 100°C

PRODUCT ADVANTAGE

- 1, Heat & oxidation resistant
- 2, Conform to EN12115, FDA 21 CFR 177.1550, EU 1935/2004, EU 10/2011, CE certified
- 3, Meets explosion-proof standard
- 4, Phthalate-free, RoHS compliant
- 5, Inner rubber resistance $\leq 10\Omega$; Outer rubber resistance $\leq 10\Omega$

Inner Diameter		Outer Diameter		W.P		B.P		Safety Factor	Vacuum Pressure	MBR	Weight	Length
Inch	mm	Inch	mm	Bar	PSI	Bar	PSI		Bar	mm	Kg/m	Mtr
3/4"	19	1.22	31	20	300	80	1200	1:4	-0.85	80	0.6	60
1 "	25	1.45	37	20	300	80	1200	1:4	-0.85	100	0.9	60
1-1/4"	32	1.77	45	20	300	80	1200	1:4	-0.85	120	1.1	60
1-1/2"	38	2.05	52	20	300	80	1200	1:4	-0.85	150	1.5	60
2"	51	2.60	66	20	300	80	1200	1:4	-0.85	200	2.1	60
2-1/2"	64	3.07	78	20	300	80	1200	1:4	-0.85	250	2.6	60
3"	76	3.62	92	20	300	80	1200	1:4	-0.85	300	3.7	60
4"	102	4.76	121	20	300	80	1200	1:4	-0.85	400	4.9	60
6"	152	6.77	172	20	300	80	1200	1:4	-0.85	600	7.9	60



船用耐磨泥浆 & 散装物料软管

MARINE SLURRY & BULK MATERIAL RUBBER FLEXIBLE HOSE



SCOPE OF APPLICATION

Intended for suction and discharge conveyance of highly abrasive slurry containing 30%-40% sand and gravel; applicable medium pH ranges from 8~11; the hose can resist negative pressure down to -0.9 bar; the abrasion loss of inner rubber shall be no more than 60mm³ in accordance with ISO 4649 standard.

PRODUCT SPECIFICATIONS

Inner Rubber: Black compound rubber blended with natural rubber (NR) and styrene-butadiene rubber (SBR), featuring excellent abrasion resistance.

Outer Rubber: Black blended rubber of chloroprene rubber (CR) and natural rubber (NR), with outstanding resistance to ageing, ultraviolet radiation and abrasion.

Reinforcement: Multiple layers of polyester fabric, high-tensile spiral textile cords plus embedded steel wire helix reinforcement.

Working Temperature: -30°C ~ 100°C

Inner Diameter		Outer Diameter		W.P		B.P		Safety Factor	Vacuum Pressure	MBR	Weight	Length
Inch	mm	Inch	mm	Bar	PSI	Bar	PSI		Bar	mm	Kg/m	Mtr
3/4"	19	1.22	31	20	300	80	1200	1:4	-0.85	80	0.6	60
1 "	25	1.50	38	20	300	80	1200	1:4	-0.85	100	0.9	60
1-1/4"	32	1.77	45	20	300	80	1200	1:4	-0.85	120	1.1	60
1-1/2"	38	2.05	52	20	300	80	1200	1:4	-0.85	150	1.5	60
2"	51	2.60	66	20	300	80	1200	1:4	-0.85	200	2.1	60
2-1/2"	64	3.07	78	20	300	80	1200	1:4	-0.85	250	2.6	60
3"	76	3.62	92	20	300	80	1200	1:4	-0.85	300	3.7	60
4"	102	4.76	121	20	300	80	1200	1:4	-0.85	400	4.9	60
6"	152	6.77	172	20	300	80	1200	1:4	-0.85	600	7.9	60



重型水气输送软管

HEAVY DUTY AIR WATER RUBBER FLEXIBLE HOSE



SCOPE OF APPLICATION

Kelitong Heavy-Duty Air Rubber Hose suitable for transferring compressed air, oil, gas and other general media. Widely used for multi-purpose services in marine and industrial sectors. Constructed with high-tensile synthetic-fiber reinforcement, the hose delivers excellent pressure resistance and structural stability. The premium NBR inner tube offers great resistance against oil, seawater, acid-alkali corrosion and high temperature. The yellow NBR outer cover provides outstanding performance against abrasion, ozone aging, oil and heat.

PRODUCT SPECIFICATIONS

Inner Rubber : Black NBR, resistant to oil, seawater, high temperature, acid and alkali

Outer Rubber: Yellow NBR, excellent resistance to abrasion, ozone aging, oil and heat

Reinforcement: High-tensile synthetic fiber layers

Working Temperature: -30°C ~ +100°C

Inner Diameter		Outer Diameter		W.P		B.P		Safety Factor	MBR	Weight	Length
Inch	mm	Inch	mm	Bar	PSI	Bar	PSI		mm	Kg/m	Mtr
3/4"	19	1.18	30	20	300	60	900	1:3	150	0.6	60
1 "	25	1.41	36	20	300	60	900	1:3	200	0.9	60
1-1/4"	32	1.69	43	20	300	60	900	1:3	250	1.1	60
1-1/2"	38	1.96	50	20	300	60	900	1:3	300	1.4	60
2"	51	2.48	63	20	300	60	900	1:3	400	1.9	60
2-1/2"	64	3.03	77	20	300	60	900	1:3	500	2.4	60
3"	76	3.62	92	20	300	60	900	1:3	650	3.3	60
4"	102	4.76	121	20	300	60	900	1:3	800	4.5	60