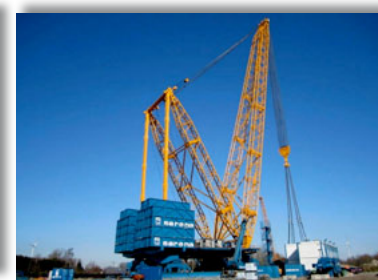




HEBEI QIANLI RUBBER PRODUCTS CO., LTD.



## HIGH PRESSURE RUBBER HOSE



# About the company



## Customer oriented supplier

HEBEI QIANLI RUBBER PRODUCTS CO., LTD. is a technical company, which focus on researching, developing, manufacturing and exporting rubber hose and related products. Sited in Jing county west industrial zone, our company covers an area of 40 thousand square meters and has 30 million investment scale.

It has established a strict quality assurance system and got the ISO9001 certification. Testing by the relevant authorities, the main products have reached the international level of the same industry. The company's main products steel wire reinforced hydraulic hose, steel wire spiraled hydraulic hose, high pressure steam hose, high pressure air hose, textile reinforced hydraulic hose, thermoplastic hydraulic hose, nylon resin hose and rotary drilling hose.

The company's aim is to provide users high quality and effective services. Our products are manufactured according to national standards, industry standards, corporate standards of production and delivery, ISO, DIN, SAE, production and supply of the common international standard. Engineering and technical personnel can also offer door service based on customers' requirements to design and produce all kinds of non-standard products. And we are looking forward to cooperating with you in the near future.



Contact Information  
[www.thehydraulicchase.com](http://www.thehydraulicchase.com)

# [ Table of contents ]



01

High Pressure Rubber Hose

02

Company Introduction

03

Table of Contents

04

Customers Visiting

## SAE Series

SAE 100R1 Steel Wire Reinforced Hydraulic Rubber Hose	05
SAE 100R2 High Pressure Steel Wire Reinforced Hydraulic Rubber Hose	06
SAE 100R3 Double Fiber Braid (Nonmetallic) Hydraulic Rubber Hose	07
SAE 100R4 Wire Inserted Hydraulic Suction Hose	08
SAE 100R5 Single Wire Braided Textile Covered Hydraulic Rubber Hose	09
SAE 100R6 Fiber Reinforced (Nonmetallic) Hydraulic Rubber Hose	10
SAE 100R7 Thermoplastic Hydraulic Hose	11
SAE 100R8 High Pressure Thermoplastic Hydraulic Hose	12
SAE 100R9 High Pressure Four Spiral Steel Wire Hydraulic Rubber Hose	13
SAE 100 R12 Heavy Duty High Four Spiral Steel Wire Hydraulic Rubber Hose	14
SAE 100 R13 Heavy Duty High Multiple Spiral Steel Wire Hydraulic Rubber Hose	15
SAE 100R14 PTFE Lined Hydraulic Hose	16
SAE 100R15 Heavy Duty High Pressure Impulse Spiral Steel Wire Hydraulic Rubber Hose	17
SAE 100R16 Compact High Pressure One and Two Steel Wire Hydraulic Rubber Hose	18
SAE 100R17 Compact 21 MPa Maximum Working Pressure Hydraulic Rubber Hose	19

## EN Series

EN 853 1SN Steel Wire Reinforced Hydraulic Rubber Hose	20
EN 853 2SN Steel Wire Reinforced Hydraulic Rubber Hose	21
EN 856 4SH Steel Wire Spiraled Hydraulic Rubber Hose	22
EN 856 4SP Steel Wire Spiraled Hydraulic Rubber Hose	23
EN 857 1SC Steel Wire Reinforced Hydraulic Rubber Hose	24
EN 857 2SC Steel Wire Reinforced Hydraulic Rubber Hose	25

26

Production Process

27

Precautions for Use

28

Application

# Customers visiting



Occupied with first class rubber hose manufacturing technology, the high pressure rubber hose products from HEBEI QIANLI RUBBER PRODUCTS CO., LTD. have a broad market and well-deserved reputation. We have set up a series of strictly quality control system through bringing in advanced equipment and learning advanced technologies. Nowadays, all of our main products have achieved the international level in the same trade and won the customers trust and praise. We are very delighted to have the opportunity to cooperate with you and welcome to visit our company.



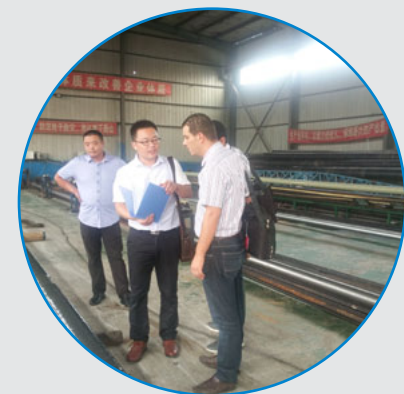
Customer from Italy needs suction hose with flanges.



Customers from France need hydraulic hose EN856 4SH and 4SP.



Customer from Iran is talking about the quality of rubber hose and packing details with manager.



Customers from Tunis are visiting our factory and confirming the length of dies.



# SAE Series

## SAE 100R1 Steel Wire Reinforced Hydraulic Rubber Hose



**Tube:** An inner tube is made of oil resistant synthetic rubber.

**Reinforcement:** A single steel wire braid reinforcement.

**Cover:** Oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R1 single steel wire braided hose is a typical medium pressure hydraulic hose and it is especially suitable for hydraulic lines or general industrial system. High tensile strength steel wire reinforcement makes SAE 100R1 hose support higher pressure than common steel wire does. SAE 100R1 rubber hose, features high temperature and high abrasion resistance. They are designed to meet higher standard.

Size		SAE Size	I.D		Reinforcement W.D		O.D			Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	A	max	AT	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.6	5.4	8.9	10.1	11.9	13.5	12.5	21	3045	42	6090	84	12810	90	0.20
6.3	1/4	-4	6.2	7.0	10.6	11.7	15.1	16.7	14.1	19.2	2780	38.5	5580	77	11165	100	0.25
8	5/16	-5	7.7	8.5	12.1	13.3	16.7	18.3	15.7	17.5	2540	35	5075	70	10150	115	0.31
10	3/8	-6	9.3	10.1	14.5	15.7	19.0	20.6	18.1	15.7	2280	31.5	4570	63	9135	125	0.36
12.5	1/2	-8	12.3	13.5	17.5	19.0	22.2	23.8	21.5	14	2030	28	4060	56	8120	180	0.45
16	5/8	-10	15.5	16.7	20.6	22.2	25.4	27.0	24.7	10.5	1520	21	3045	42	6090	205	0.52
19	3/4	-12	18.6	19.8	24.6	26.2	29.4	31.0	28.6	8.7	1260	17.5	2540	35	5075	240	0.65
25	1	-16	25.0	26.4	32.5	34.1	36.9	39.3	36.6	7	1015	14	2030	28	4060	300	0.91
31.5	1 1/4	-20	31.4	33.0	39.3	41.7	44.4	47.6	44.8	4.3	620	8.7	1260	17.5	2540	420	1.30
38	1 1/2	-24	37.7	39.3	45.6	48.0	50.8	54.0	52.0	3.5	510	7	1015	14	2030	500	1.70
51	2	-32	50.4	52.0	58.7	61.9	65.1	68.3	65.9	2.6	380	5.2	750	10.5	1520	630	2.00

# SAE Series

## SAE 100R2 High Pressure Steel Wire Reinforced Hydraulic Rubber Hose



**Tube:** An inner tube is made of high quality synthetic rubber compounds.

**Reinforcement:** Two braided layers are made of hardened, tempered, surface protected steel wires.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R2 hydraulic hose has three parts, excellent oil resistance nitrile tube, good weather and petroleum products resistance neoprene cover and double high-tensile wire braid reinforcement. It is ideal for outside working environments including offshore, forestry, construction and mining where high abrasion resistance is required. Petroleum and water based hydraulic fluids with high pressure can pass through the inner tube smoothly and freely without producing excessive heat and leak. It is also widely used in mobile equipment including farm tractor, dump truck and in-plant hydraulic equipment.

Size		SAE Size	I.D		Reinforcement W.D		O.D			Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	min	max	AT	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.6	5.4	10.6	11.7	15.1	16.7	14.1	35	5075	70	10150	140	20300	90	0.32
6.3	1/4	-4	6.2	7	12.1	13.3	16.7	18.3	15.7	35	5075	70	10150	140	20300	100	0.36
8	5/16	-5	7.7	8.5	13.7	14.9	18.3	19.8	17.3	29.7	4310	59.5	8630	119	17255	115	0.45
10	3/8	-6	9.3	10.1	16.1	17.3	20.6	22.2	19.7	28	4060	56	8120	112	16240	125	0.54
12.5	1/2	-8	12.3	13.5	19	20.6	23.8	25.4	23.1	24.5	3550	49	7110	98	14210	180	0.68
16	5/8	-10	15.5	16.7	22.2	23.8	27	28.6	26.3	19.2	2780	38.5	5580	77	11165	205	0.8
19	3/4	-12	18.6	19.8	26.2	27.8	31	32.5	30.2	15.7	2280	31.5	4570	63	9135	240	0.94
25	1	-16	25	26.4	34.1	35.7	38.5	40.9	38.9	14	2030	28	4060	56	8120	300	1.35
31.5	1 1/4	-20	31.4	33	43.2	45.6	49.2	52.4	49.6	11.3	1640	22.7	3290	45.5	6600	420	2.15
38	1 1/2	-24	37.7	39.3	49.6	52	55.6	58.7	56	8.7	1260	17.5	2540	35	5075	500	2.65
51	2	-32	50.4	52	62.3	64.7	68.3	71.4	68.6	7.8	1130	15.7	2280	31.5	4570	630	3.42

# SAE Series

## SAE 100R3 Double Fiber Braid (Nonmetallic) Hydraulic Rubber Hose



**Tube:** An inner tube is made of oil resistant synthetic rubber.

**Reinforcement:** Two braids of suitable fiber.

**Cover:** Oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R3 double fiber braid hydraulic rubber hose is ideal for medium pressure fuel and oil lines as well as return and suction hoses of hydraulic systems. Two plies of braided textile protect the inner tube in case that the outside cover is broken. Nitrile tube has the advantages of premium oil resistance and will not react with petroleum or water-based hydraulic fluids within -40 °C to 100 °C.

Size		SAE Size	I.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.5	5.4	11.9	13.5	10.5	1520	21	3050	42	6090	75	0.16
6.3	1/4	-4	6.1	7.0	13.5	15.1	8.7	1260	17.5	2540	35	5075	75	0.18
8	5/16	-5	7.6	8.5	16.7	18.3	8.4	1220	16.8	2440	33.5	4860	100	0.27
10	3/8	-6	9.2	10.1	18.3	19.8	7.8	1130	15.7	2280	31.5	4570	100	0.31
12.5	1/2	-8	12.4	13.5	23.0	24.6	7	1015	14	2030	28	4060	125	0.45
16	5/8	-10	15.6	16.7	26.2	27.8	6.1	885	12.2	1770	24.5	3550	140	0.53
19	3/4	-12	18.7	19.8	31.0	32.5	5.2	750	10.5	1520	21	3045	150	0.72
25	1	-16	25.1	26.2	36.9	39.3	3.9	570	7.8	1130	15.7	2280	205	0.90
31.5	1 1/4	-20	31.4	32.9	42.9	46.0	2.6	380	5.2	750	10.5	1520	250	1.07

# SAE Series

## SAE 100R4 Wire Inserted Hydraulic Suction Hose



**Tube:** An inner tube is made of oil resistant synthetic rubber.

**Reinforcement:** A ply or piles of woven or braided textile fibers with a suitable spiral of body steel wire.

**Cover:** Oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R4 wire inserted low pressure hydraulic hose is frequently applied to suction and return line, anti-static delivery line, and vacuum applications for petroleum and water-based hydraulic fluids. With superior abrasion and weather resistance, neoprene cover serves as guard to avoid hydraulic fluid leakage and protecting the inner tube.

Size		SAE Size	I.D		O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
19	3/4	-12	18.2	19.8	34.9	2.1	305	4.2	610	8.4	1210	125	0.92
25	1	-16	24.6	26.2	41.3	1.7	250	3.5	510	7	1015	150	1.10
31.5	1 1/4	-20	30.6	33	50.8	1.4	200	2.8	410	5.6	810	200	1.30
38	1 1/2	-24	36.9	39.3	57.2	1.05	150	2.1	305	4.2	610	255	1.80
51	2	-32	49.2	52.4	69.9	0.7	100	1.4	200	2.8	410	300	2.23
63	2 1/2	-40	61.9	65.1	82.6	0.4	60	0.85	120	1.7	250	355	3.23
76	3	-48	74.6	77.8	95.3	0.4	60	0.8	120	1.6	230	460	4.25
89	3 1/2	-56	87.3	90.5	107.9	0.3	40	0.6	90	1.25	180	530	5.05
102	4	-64	100	103.2	120.7	0.25	40	0.5	70	1	145	610	5.60



# SAE Series

## SAE 100R5 Single Wire Braided Textile Covered Hydraulic Rubber Hose



**Tube:** An inner tube is made of oil resistance synthetic rubber.

**Reinforcement:** A single layer of braided high tensile steel wire.

**Cover:** Fiber braided cover.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R5 single wire braid and textile covered hydraulic rubber hoses are widely used in medium pressure applications. They are suitable for conveying petroleum-based hydraulic oil, air and water with specified pressure to air brakes, power steering, turbo oil lines and tilt cab cylinders. Oil resistant tube, single wire braid reinforcement and fiber braided cover contributes high performance. Fabric braids should be resistant to oils and mildew.

Size		SAE Size	I.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.8	5.5	12.7	13.7	21.0	3045	42	6090	84	12180	75	0.24
6.3	1/4	-4	6.4	7.2	14.3	15.3	21.0	3045	42	6090	84	12180	85	0.28
8	5/16	-5	7.9	8.7	16.7	17.6	15.7	2270	31.5	4570	63	9135	100	0.35
11	1 3/32	-6	10.3	11.1	18.9	20	14.0	2030	28	4060	56	8120	115	0.38
12.5	1/2	-8	12.7	13.7	22.8	24	12.2	1770	24.5	3550	49	7105	140	0.51
16	5/8	-10	15.9	17	26.8	28	10.5	1520	21	3045	42	6090	165	0.68
22	7/8	-14	22.2	23.3	30.6	32.2	5.6	810	11.2	1620	22.4	3250	185	0.70
29	1 1/8	-22	28.6	29.8	37.3	38.9	4.3	620	8.7	1260	17.5	2540	230	0.80
35	1 3/8	-26	34.9	36.1	43.7	45.2	3.5	510	7	1015	14	2030	265	0.93
46	1 13/16	-30	46.0	47.2	55.2	57.6	2.4	350	4.9	700	9.8	1420	335	1.32
60	2 3/8	-38	60.3	61.9	71.8	74.2	2.4	350	4.9	700	9.8	1420	610	2.96
76	3	-48	76.2	77.8	89.3	91.7	1.4	200	2.8	410	5.6	810	840	4.10

# SAE Series

## SAE 100R6 Fiber Reinforced (Nonmetallic) Hydraulic Rubber Hose



**Tube:** An inner tube is made of oil resistant synthetic rubber.

**Reinforcement:** One layer of suitable fiber.

**Cover:** Oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R6 textile braided hydraulic hose is commonly applied to low pressure conditions, especially where tight routing is urgently required. It is also including return & suction lines, power steering return hoses, lube lines and air lines without brake applications. Black nitrile tube is quite coMPatible with petroleum base hydraulic fluids with temperature ranging from -40 °C to 100 °C. Neoprene cover protects the inside parts from degradation from ozone, weather, oil and abrasion. Fiber reinforcement gives great flexibility to low pressure hydraulic hoses and suits narrow working spaces.

Size		SAE Size	I.D		O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.2	5.4	10.3	3.5	510	7	1015	14	2030	50	0.10
6.3	1/4	-4	5.6	7.2	11.9	2.8	410	5.6	810	11.2	1620	65	0.13
8	5/16	-5	7.2	8.8	13.5	2.8	410	5.6	810	11.2	1620	75	0.15
10	3/8	-6	8.7	10.3	15.1	2.8	410	5.6	810	11.2	1620	75	0.18
12.5	1/2	-8	11.9	13.5	19.0	2.8	410	5.6	810	11.2	1620	100	0.26
16	5/8	-10	15.1	16.7	22.2	2.4	350	4.8	710	9.8	1420	125	0.34
19	3/4	-12	18.3	19.9	25.4	2.1	310	4.2	610	8.4	1220	150	0.40

# SAE Series

## SAE 100R7 Thermoplastic Hydraulic Hose



**Tube:** Thermoplastic inner tube resistant to hydraulic fluids.

**Reinforcement:** Reinforced with suitable synthetic fiber.

**Cover:** A layer of hydraulic fluid and weather resistant thermoplastic.

**Temperature:** -40 °C to +93 °C (-40°F to +199.4 °F).

SAE 100R7 nonconductive thermoplastic hydraulic hose is available for applications where there is potential to contact with high voltage sources. Nylon tube is coMPatible with petroleum, water and synthetic based hydraulic fluids for mobile equipment, lube lines, blowout preventers and hydraulic lifts where nonconductive character is necessary.

Size		SAE Size	I.D		O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.6	5.4	11.4	21	3045	42	6090	84	12180	90	0.073
6.3	1/4	-4	6.2	7.0	13.7	19.2	2780	38.5	5580	77	11165	100	0.090
8	5/16	-5	7.7	8.5	15.6	17.5	2535	35	5075	77	10150	115	0.128
10	3/8	-6	9.3	10.3	18.4	15.7	2275	31.5	4565	63	9135	125	0.155
12.5	1/2	-8	12.3	13.5	22.5	14	2030	28	4060	56	8120	180	0.224
16	5/8	-10	15.5	16.7	25.8	10.5	1520	21	3045	42	6090	205	0.277
19	3/4	-12	18.6	19.8	28.6	8.7	1260	17.5	2535	35	5075	240	0.330
25	1	-16	25.0	26.4	36.7	7	1015	14	2030	28	4060	300	0.403



# SAE Series

## SAE 100R8 High Pressure Thermoplastic Hydraulic Hose



**Tube:** Thermoplastic inner tube resistant to hydraulic fluids.

**Reinforcement:** Reinforced with suitable synthetic fiber.

**Cover:** A layer of hydraulic fluid and weather resistant thermoplastic.

**Temperature:** -40 °C to +93 °C (-40 °F to +199.4 °F).

SAE 100R8 high pressure thermoplastic hydraulic hose is used in nonconductive applications where there is potential of contacting with high voltage sources, such as blowout preventers, lube lines and construction machinery. It is used for petroleum based and synthetic hydraulic fluids with temperature ranging from -40 °C to 212 °C, which will not cause tube failure.

Size		SAE Size	I.D		O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.6	5.4	14.6	35	5075	70	10150	140	20300	90	0.086
6.3	1/4	-4	6.2	7.0	16.8	35	5075	70	10150	140	20300	100	0.097
10	3/8	-6	9.3	10.3	20.3	28	4060	56	8120	112	16240	125	0.178
12.8	1/2	-8	12.3	13.5	24.6	24.5	3550	49	1705	98	14210	180	0.215
16	5/8	-10	15.5	16.7	29.8	19.2	2780	38.5	2280	77	11165	205	0.312
19	3/4	-12	18.6	19.8	33	15.7	2275	31.5	4565	63	9135	240	0.360
25	1	-16	25.0	26.4	38.6	14	2030	28	4060	56	8120	300	0.505

# SAE Series

## SAE 100R9 High Pressure Four Spiral Steel Wire Hydraulic Rubber Hose



**Tube:** An inner tube in high quality synthetic rubber compounds features oil resistance.

**Reinforcement:** Four spiraled layers of high tensile steel wires.

**Cover:** Abrasion, oil, weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

With outstanding kick resistance, impulse resistance and can support surge pressure, SAE 100R9 high pressure four spiral steel wire hydraulic rubber hose is widely used in conditions where high pressure, high abrasion and kick resistance are urgently required, petroleum based hydraulic fluids within a temperature ranging from 40 °C to +100 °C.

Size		SAE Size	I.D		Reinforcement W.D		O.D			Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
							A		AT								
mm	inch	dash	min	max	min	max	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
10	3/8	-6	9.3	10.1	16.9	18.0	20.6	22.2	21.1	31.5	4570	63	9135	126	18270	125	0.70
12.5	1/2	-8	12.3	13.5	19.4	21.0	23.8	25.4	24.3	28	4060	56	8120	112	16240	180	0.83
19	3/4	-12	18.6	19.8	26.6	28.2	30.6	32.2	31.9	21	3045	42	6090	84	12180	240	1.30
25	1	-16	25.0	26.4	34.5	36.1	38.5	40.9	40.5	21	3045	42	6090	84	12180	300	1.70
31.5	1 1/4	-20	31.4	33.0	43.3	45.6	49.2	52.4	50.7	17.5	2540	35	5075	70	10150	420	3.08
38	1 1/2	-24	37.7	37.7	49.6	52.0	55.6	58.7	-	14	2030	28	4060	56	8120	500	4.30
51	2	-32	50.4	50.4	63.9	66.2	69.9	73.0	-	14	2030	28	4060	56	8120	660	5.63



# SAE Series

## SAE 100 R12 Heavy Duty High Four Spiral Steel Wire Hydraulic Rubber Hose



**Tube:** An inner tube of oil resistant synthetic rubber compounds.

**Reinforcement:** Four spiral piles of steel wire wrapped in alternating directions.

**Cover:** Oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +120 °C (-40 °F to +250 °F).

SAE 100R12 heavy duty hydraulic rubber hose is reinforced by four layers of spiral steel wires in alternating directions which can balance pressure and containment forces. Spiral wire reinforcement is ideal for high-impulse and high abrasion resistance applications. This section covers make hose most suitable for petroleum based hydraulic fluids with temperature ranging from -40 °C to +121 °C.

Size		SAE Size	I.D		Reinforcement W.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
10	3/8	-6	9.3	10.1	16.6	17.8	19.5	21.0	28	4060	56	8120	112	16240	125	0.70
12.5	1/2	-8	12.3	13.5	19.9	21.5	23.0	24.6	28	4060	56	8120	112	16240	180	0.83
16	5/8	-10	15.5	16.7	23.8	25.4	26.6	28.2	28	4060	56	8120	112	16240	200	1.12
19	3/4	-12	18.6	19.8	26.9	28.4	29.9	31.5	28	4060	56	8120	112	16240	240	1.43
25	1	-16	25.0	26.4	34.1	35.7	36.8	39.2	28	4060	56	8120	112	16240	300	2.00
31.5	1 1/4	-20	31.4	33.0	42.7	45.1	45.4	48.6	21	3045	42	6090	84	12180	420	2.80
38	1 1/2	-24	37.7	39.3	49.2	51.6	51.9	55.0	17.5	2540	35	5075	70	10150	500	3.40
51	2	-32	50.8	52.0	62.5	64.8	65.1	68.3	17.5	2540	35	5075	70	10150	640	4.25

# SAE Series

## SAE 100 R13 Heavy Duty High Multiple Spiral Steel Wire Hydraulic Rubber Hose



**Tube:** An inner tube is made of oil resistant synthetic rubber compounds.

**Reinforcement:** Multiple spiral piles of steel wire wrapped in alternating directions.

**Cover:** Oil and weather resistant synthetic rubber.

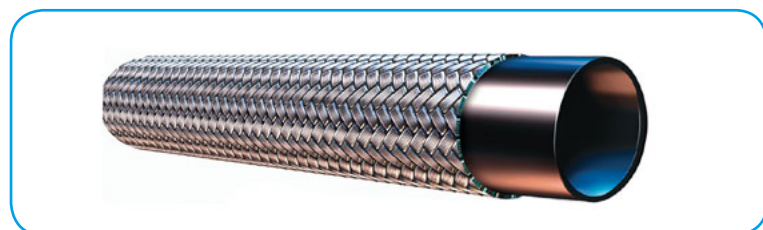
**Temperature:** -40 °C to +120 °C (-40 °F to +250 °F).

Reinforced with multiple layers of spiraled wire in alternation directions, SAE 100R13 hydraulic hoses can work in extremely high working pressure. Spiral reinforcement is particularly ideal for high pressure impulse applications as a result of paralleled individual wires. In addition, thin rubber adhesion separates the neighboring spiral wires to avoid cutting one another. Compared with wire braided hose, spiral hydraulic hose gives 5075 psi constant pressure to the system. Nitrile synthetic rubber is very coMPatible with biodegradable hydraulic fluids like polyester, polyglycol and vegetable oils as well as standard hydraulic fluids.

Size		SAE Size	I.D		Reinforcement W.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
19	3/4	-12	18.6	19.8	28.2	29.8	31.0	33.2	35	5075	70	10150	140	20300	240	2.10
25	1	-16	25.0	26.4	34.9	36.4	37.6	39.8	35	5075	70	10150	140	20300	300	2.88
31.5	1 1/4	-20	31.4	33.0	45.6	48.0	48.3	51.3	35	5075	70	10150	140	20300	420	4.20
38	1 1/2	-24	37.7	39.3	53.1	55.5	55.8	58.8	35	5075	70	10150	140	20300	500	5.00
51	2	-32	50.4	52.0	66.9	69.3	69.5	72.7	35	5075	70	10150	140	20300	640	7.00

# SAE Series

## SAE 100R14 PTFE Lined Hydraulic Hose



**Tube:** An Inner tube of polytetrafluoroethylene (PTFE).

**Reinforcement:** Reinforced with a single braid of 303XX series stainless steel wire.

**Temperature:** -54 °C to + 204 °C (-65 °F to +400 °F).

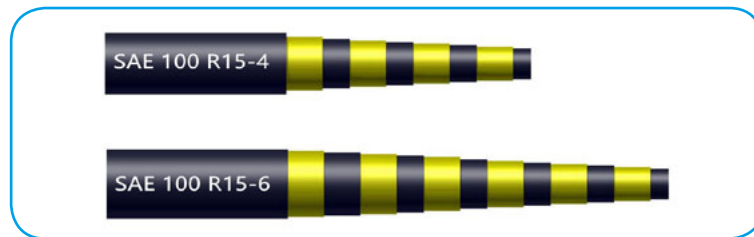
SAE 100R14 PTFE hydraulic hose is widely used for petroleum base and synthetic base hydraulic fluids with temperature ranging from -54 °C to +204 °C. What's more, temperature ranging of water base hydraulic fluids should be agreed upon by the manufactures of both the hose and the fluid. Type A is consist of an inner tube of polytetrafluoroethylene (PTFE), reinforced with a single braid of 303XX series stainless steel wire. Stainless steel wire braid will not be affected in harsh environments including damp environment, oils, chemicals, abrasions and all weather.

SAE 100R14 PTFE medium pressure hydraulic hose is widely used in air compressor discharge, hot oil and fluids, hot and greasy environments.

Size	SAE Size	I.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R
mm	dash	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm
3.2	-3	2.8	3.8	5.3	6.8	10.5	1523	41.4	6003	82.7	11992	40
5	-4	4.4	5.2	7.1	8.2	10.5	1523	34.5	5003	68.9	9990	50
6.3	-5	6.0	6.9	8.9	10.1	10.5	1523	31.0	4495	62.0	8990	75
8	-6	7.5	8.4	10.4	11.6	10.5	1523	27.6	4002	55.2	8004	100
10	-7	9.1	10.0	12.2	13.4	10.5	1523	24.1	3495	48.3	7004	125
11	-8	9.9	10.9	12.9	14.3	7	1015	20.7	3002	41.4	6003	135
12.5	-10	12.3	13.3	15.3	16.8	5.6	812	20.7	3002	41.4	6003	165
16	-12	15.3	16.5	18.6	20.1	5.6	812	17.2	2494	34.5	5003	200
19	-14	18.4	19.6	21.3	23.3	5.6	812	16.8	2436	27.6	4002	230
22	-16	21.4	23.0	24.6	26.9	5.6	812	12.1	1755	24.1	3495	230
25	-18	24.6	26.2	27.8	29.8	5.6	812	12.1	1755	24.1	3495	300
29	-20	27.8	29.4	31.9	31.9	4.2	609	8.6	1247	17.2	2494	410

# SAE Series

## SAE 100 R15 Heavy Duty High Pressure Impulse Spiral Steel Wire Hydraulic Rubber Hose



**Tube:** An Inner tube of oil resistant synthetic rubber compounds.

**Reinforcement:** Multiple spiral piles of heavy steel wire wrapped in alternating directions.

**Cover:** An oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +120 °C (-40 °F to +250 °F).

SAE 100R15 high pressure hydraulic hose is reinforced by four or six alternating layers of spiral and high-tensile steel wire. It is very popular in logging, construction, mining, agriculture and oil field equipment, because it can work constantly under high pressure.

Size		SAE Size	I.D		Reinforcement W.D	O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
10	3/8	-6	9.3	10.1	20.3	23.3	42	6090	84	12180	168	24360	150	0.80
12.7	1/2	-8	12.3	13.5	24.0	26.8	42	6090	84	12180	168	24360	200	0.95
19	3/4	-12	18.6	19.8	32.0	36.1	42	6090	84	12180	168	24360	265	1.85
25	1	-16	25.0	26.4	38.9	42.9	42	6090	84	12180	168	24360	330	2.90
31.5	1 1/4	-20	31.4	33.0	48.4	51.5	42	6090	84	12180	168	24360	445	4.20
38	1 1/2	-24	37.7	39.3	56.3	59.6	42	6090	84	12180	168	24360	530	5.60

# SAE Series

## SAE 100R16 Compact High Pressure One and Two Steel Wire Hydraulic Rubber Hose



SAE 100 R16-1

SAE 100 R16-2

**Tube:** An inner tube of oil resistant synthetic rubber.

**Reinforcement:** Steel wire reinforcement according to hose design (one or two braids).

**Cover:** An oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R16 compact high pressure hydraulic rubber hose is reinforced by two braids of high-tensile steel wire. And it shares similar specifications of SAE 100R2 except tighter bending radius. Black nitrile tube will not react with water or petroleum-based hydraulic fluid. Neoprene cover is resistant to abrasion, weather degradation and chemicals. SAE 100R16 compact high pressure hydraulic rubber hose has priority when you choose hydraulic hoses for narrow routing spacing, it is applied for backhoe, farm tractor, forklift truck, dump truck, mobile equipment. It is used for with petroleum base hydraulic fluids within -40 °C to +100 °C.

Size		SAE Size	I.D		Reinforcement W.D	O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
6.3	1/4	-4	6.2	7.0	12.3	14.5	35	5075	70	10150	140	20300	50	0.30
8	5/16	-5	7.7	8.5	13.3	15.7	30	4305	59.5	8625	119	17255	55	0.34
10	3/8	-6	9.3	10.1	15.9	18.8	33	4060	56	8120	112	16240	65	0.42
12.5	1/2	-8	12.3	13.5	19.0	22.0	27.5	3550	49	7105	98	14210	90	0.54
16	5/8	-10	15.5	16.7	22.6	25.4	25	2780	38.5	5580	77	11165	100	0.68
19	3/4	-12	18.6	19.8	26.3	29.0	21.5	2275	31.5	4565	63	9135	120	0.80
25	1	-16	25.0	26.4	34.0	36.6	16.5	2030	28	4060	56	8120	150	1.15
31.5	1 1/4	-20	31.4	33.0	41.9	44.3	12.5	1635	22.7	3290	45.5	6595	210	1.83



# SAE Series

## SAE 100R17 Compact 21MPa Maximum Working Pressure Hydraulic Rubber Hose



**Tube:** Inner tube of oil resistant synthetic rubber.

**Reinforcement:** Steel wire reinforcement according to hose design (one or two braids).

**Cover:** An oil and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

SAE 100R17 compact hydraulic rubber hose has smaller bend radius and is ideal for tight routing where hose space is limited. It provides continuous working pressure to mining equipment, logging equipment, material handling and farm tractor.

It consists of an inner tube of oil resistant synthetic rubber, steel wire reinforcement according to hose design (one or two braids), and an oil and weather resistant synthetic rubber cover. A ply or braid of suitable material may be used over the inner tube or over the wire reinforcement to anchor the synthetic rubber to the wire.

Size		SAE Size	I.D		Reinforcement W.D	O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
6.3	1/4	-4	6.2	7.0	11.0	13.2	21	3045	42	6090	84	12180	50	0.169
8	5/16	-5	7.7	8.5	13.0	15.0	21	3045	42	6090	84	12180	55	0.210
10	3/8	-6	9.3	10.1	15.0	17.0	21	3045	42	6090	84	12180	65	0.254
12.5	1/2	-8	12.3	13.5	18.8	21.1	21	3045	42	6090	84	12180	90	0.466
16	5/8	-10	15.5	16.7	23.6	25.9	21	3045	42	6090	84	12180	100	0.586
19	3/4	-12	18.6	19.8	27.7	30.3	21	3045	42	6090	84	12180	120	0.749
25	1	-16	25.0	26.4	35.6	35.6	21	3045	42	6090	84	12180	150	1.457

# EN series

## EN 853 1SN Steel Wire Reinforced Hydraulic Rubber Hose



**Tube:** Inner tube in high quality synthetic rubber compounds.

**Reinforcement:** One single high tensile steel wire braid.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

EN 853 1SN single wire braided hydraulic hose is mainly used in high pressure hydraulic systems. The difference between 1ST and 1SN is that the later type has thinner covers. So type 1SN is not suitable for applications that requires removing.

High tensile steel braid makes the hose can operate in high working pressure. What's more, ozone and weather resistant synthetic rubber cover can prevent the inside reinforcement and tube from abrasion and corrosion. It is suitable for carrying fluids such as glycol, mineral oil, fuel, lubricants, emulsion, hydrocarbon etc.

Size		SAE Size	I.D		Reinforcement W.D		O.D			Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
							A		AT								
mm	inch	dash	min	max	min	max	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.6	5.4	9.0	10.0	11.9	13.5	12.5	25	3625	50	7250	100	14500	90	0.20
6.3	1/4	-4	6.2	7.0	10.6	11.6	15.1	16.7	14.1	22.5	3260	45	6525	90	13050	100	0.25
8	5/16	-5	7.7	8.5	12.1	13.3	16.7	18.3	15.7	21.5	3120	43	6235	85	12325	115	0.31
10	3/8	-6	9.3	10.1	14.5	15.7	19.0	20.6	18.1	18	2610	36	5220	72	10440	130	0.36
12.5	1/2	-8	12.3	13.5	17.5	19.1	22.2	23.8	21.4	16	2320	32	4640	64	9280	180	0.45
16	5/8	-10	15.5	16.7	20.6	22.2	25.4	27.0	24.5	13	1885	26	3770	52	7540	200	0.52
19	3/4	-12	18.6	19.8	24.6	26.2	29.4	31.0	28.5	10.5	1520	21	3045	42	6090	240	0.65
25	1	-16	25.0	26.4	32.5	34.1	37.1	39.1	36.6	8.8	1280	17.5	2540	35	5075	300	0.91
31.5	1 1/4	-20	31.4	33.0	39.3	41.7	44.4	47.6	44.8	6.3	910	15	2175	25	3625	420	1.30
38	1 1/2	-24	37.7	39.3	45.6	48.0	50.8	54.0	52.1	5	725	10	1450	20	2900	500	1.70
51	2	-32	50.4	52.0	58.7	61.7	65.1	68.3	65.5	4	580	8	1160	16	2320	630	2.00

# EN series

## EN 853 2SN Steel Wire Reinforced Hydraulic Rubber Hose



**Tube:** Inner tube in high quality synthetic rubber compounds.

**Reinforcement:** Two high tensile steel wire braid.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

EN 853 2SN hydraulic rubber hose is reinforced by two braids of high tensile steel wire to support high working pressures up to 6020 psi at 3/16" I.D oil resistant tube and ozone resistant, abrasion resistant cover contribute long-terms service life. It can be applied for convey water and petroleum-based hydraulic fluids within -40 °C to 100 °C (max 120 °C intermittent).

They are applied for outside applications such as offshore, forestry, factories and similar applications where abrasion resistance should be high.

Size		SAE Size	I.D		Reinforcement W.D		O.D			Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	A		AT	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
5	3/16	-3	4.6	5.4	10.6	11.6	15.1	16.7	14.1	41.5	6020	83	12035	165	23925	90	0.32
6.3	1/4	-4	6.2	7.0	12.1	13.3	16.7	18.3	15.7	40	5800	80	11600	160	23200	100	0.36
8	5/16	-5	7.7	8.5	13.7	14.9	18.3	19.9	17.3	35	5075	70	10150	140	20300	115	0.45
10	3/8	-6	9.3	10.1	16.1	17.3	20.6	22.2	19.7	33	4785	66	9570	132	19140	130	0.54
12.5	1/2	-8	12.3	13.5	19.0	20.6	23.8	25.4	23.0	27.5	3990	55	7975	110	15950	180	0.68
16	5/8	-10	15.5	16.7	22.2	23.8	27.0	28.6	26.2	25	3625	50	7250	100	14500	200	0.80
19	3/4	-12	18.6	19.8	26.2	27.8	31.0	32.6	30.1	21.5	3120	43	6235	85	12325	240	0.94
25	1	-16	25.0	26.4	34.1	35.7	38.5	40.9	38.9	16.5	2390	32.5	4710	65	9425	300	1.35
31.5	1 1/4	-20	31.4	33.0	43.3	45.7	49.2	52.4	49.5	12.5	1810	25	3625	50	7250	420	2.15
38	1 1/2	-24	37.7	39.3	49.6	52.0	55.6	58.8	55.9	9	1305	18	2310	36	5220	500	2.65
51	2	-32	50.4	52.0	62.3	64.7	68.2	71.4	68.6	8	1160	16	2320	32	4640	630	3.42

# EN series

## EN 856 4SH Steel Wire Spiraled Hydraulic Rubber Hose



**Tube:** Inner tube in high quality synthetic rubber compounds.

**Reinforcement:** Four high tensile steel wire spiraled layers.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

EN 856 4SH steel wire spiraled hydraulic rubber hose consist of an inner tube of oil resistant synthetic rubber, four spiral layers of spiral wire reinforcement, it is covered with oil and weather resistant synthetic rubber. Spiral hydraulic hose shares outstanding kick resistance, impulse resistance and can support surge pressure.

EN 856 4SH hydraulic hose is widely used in applications where high pressure, high abrasion and kick resistance are urgently required, petroleum base hydraulic fluids within a temperature range of -40 °C to +100 °C.

Size		SAE Size	I.D		Reinforcement W.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
19	3/4	-12	18.6	19.8	27.6	29.2	31.4	33.0	42	6090	87	12180	168	24360	280	1.70
25	1	-16	25.0	26.4	34.4	36.0	37.5	39.9	38	5510	76	11020	152	22040	340	2.50
31.5	1 1/4	-20	31.4	33.0	40.9	42.9	43.9	47.1	32.5	4710	65	9425	130	18850	460	3.00
38	1 1/2	-24	37.7	39.3	49.8	49.8	51.9	55.1	29	4205	58	8410	116	16820	560	3.60
51	2	-32	50.4	52.0	64.2	64.2	66.5	69.7	25	3625	50	7250	100	14500	700	5.00

# EN series

## EN 856 4SP Steel Wire Spiraled Hydraulic Rubber Hose



**Tube:** Inner tube in high quality synthetic rubber compounds.

**Reinforcement:** Four high tensile steel wire spiraled layers.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100°C (-40 °F to +212 °F).

EN 856 4SP hydraulic rubber hose is similar to EN 856 4SH hydraulic hose, but the working pressure (under the same working temperature) is higher than EN 856 4SH hose. Four layers of high tensile spiral wire give the hose best abrasion resistance and impulse fatigue. This kind of reinforcement is ideal for outdoor applications like forestry and mine equipment.

Oil resistance synthetic rubber lives peacefully with water and petroleum based hydraulic fluids within -40°C to +100 °C. If the working temperature is lower or higher than the temperature, the service life of the hose will be materially affected.

Size		SAE Size	I.D		Reinforcement W.D		O.D		Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	min	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
6.3	1/4	-4	6.2	7.0	14.1	15.3	17.1	18.7	45	6525	90	13050	180	26100	150	0.64
10	3/8	-6	9.3	10.1	16.9	18.1	20.6	22.2	44.5	6450	89	12905	178	25810	180	0.75
12.5	1/2	-8	12.3	13.5	19.4	21.0	23.8	25.4	41.5	6020	83	12035	166	24070	230	0.89
16	5/8	-10	15.5	16.7	23.0	24.6	27.4	29.0	35	5075	70	10150	140	20300	250	1.10
19	3/4	-12	18.6	19.8	27.4	29.0	31.4	33.0	35	5075	70	10150	140	20300	300	1.50
25	1	-16	25.0	26.4	34.5	36.1	38.5	40.9	28	4060	56	8120	112	16240	340	2.00
31.5	1 1/4	-20	31.4	33.0	45.0	47.0	49.2	52.4	21	3045	42	6090	84	12180	460	3.00
38	1 1/2	-24	37.7	39.3	51.4	53.4	55.6	58.8	18.5	2680	37	5365	74	10730	560	3.40
51	2	-32	50.4	52.0	64.3	66.3	68.2	71.4	16.5	2390	33	4785	66	9570	660	4.35



# EN series

## EN 857 1SC Steel Wire Reinforced Hydraulic Rubber Hose



**Tube:** Oil resistant synthetic rubber.

**Reinforcement:** One high tensile steel wire braid.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100 °C (-40 °F to +212 °F).

EN 857 1SC hydraulic hose has similar performance as its counterpart SAE 100R1 besides tighter bending radii. It is reinforced by one high tensile wire braid. Ozone and weather resistant cover separates the tube from the outside environment and effectively extend the service life of hose. Single wire braided 1SC high pressure hydraulic hose is suitable for high pressure conditions where tight routing is required.

Size		SAE Size	I.D		Reinforcement W.D		O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
6.3	1/4	-4	6.1	6.9	9.6	10.8	13.5	22.5	3260	45	6525	90	13050	75	0.20
8	5/16	-5	7.7	8.5	10.9	12.1	14.5	21.5	3120	43	6235	86	12470	85	0.15
10	3/8	-6	9.3	10.1	12.7	14.5	16.9	18	2610	36	5220	72	10440	90	0.19
12.5	1/2	-8	12.3	13.5	15.9	18.1	20.4	16	2320	32	4640	64	9280	130	0.23
16	5/8	-10	15.5	16.7	19.8	21.0	23.0	13	1885	26	3770	52	7540	150	0.29
19	3/4	-12	18.6	19.8	23.2	24.4	26.7	10.5	1520	21	3045	42	6090	180	0.34
25	1	-16	25.0	26.4	30.7	31.9	34.9	8.8	1280	17.6	2550	35.2	5100	230	0.49

# EN series

## EN 857 2SC Steel Wire Reinforced Hydraulic Rubber Hose



**Tube:** Oil resistant synthetic rubber.

**Reinforcement:** Two layers of braided high tensile steel wire.

**Cover:** Abrasion and weather resistant synthetic rubber.

**Temperature:** -40 °C to +100°C (-40 °F to +212 °F).

High pressure and two wire braided EN 857 2SC hydraulic rubber hose serves hydraulic systems where tight bends and maximum abrasion resistance is desperately required. It is reinforced by two high tensile wire braid. Its superior impulse performance and flexibility similar to SAE 100R2 and SAE 100R16 makes it popular for many applications. Chemicals and weather resistant cover can obviously prolong service life of the whole hose. High tensile wire braids can support rubber working under high working pressure with tight bend radius. Oil resistant tube will not deform when transporting water and petroleum based hydraulic fluids within -40 °C to 100 °C.

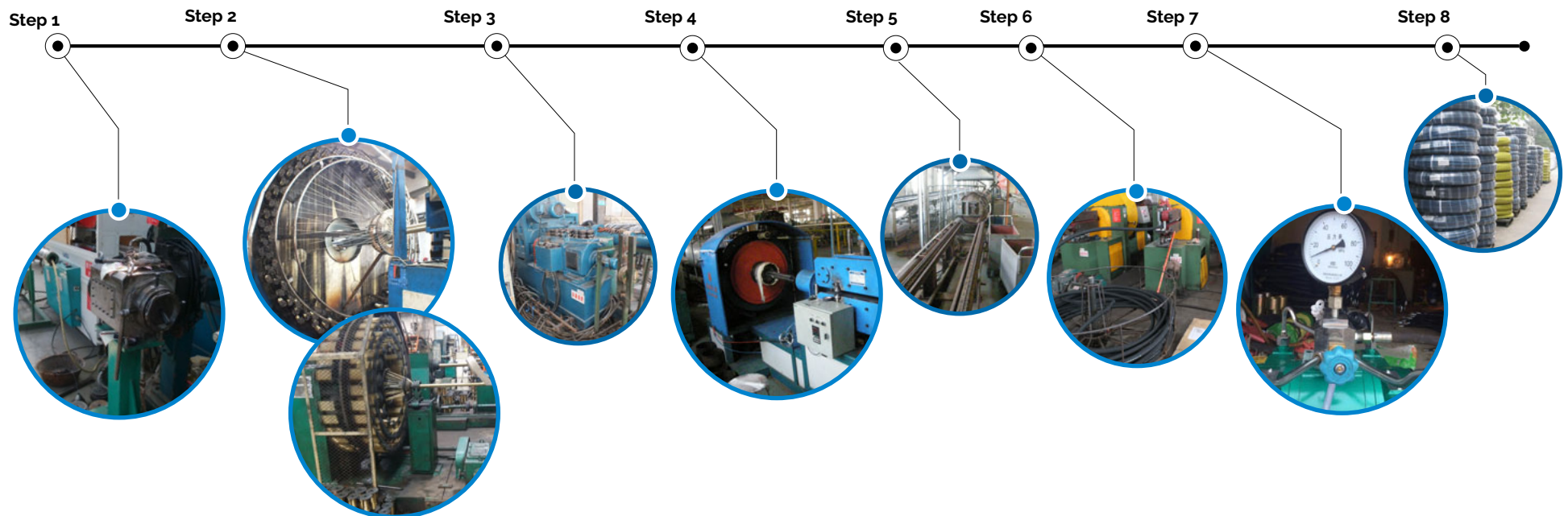
Size		SAE Size	I.D		Reinforcement W.D		O.D	Max W.P		Proof Pressure P.P		Min B.P		Min B.R	Weight
mm	inch	dash	min	max	min	max	max	MPa	Psi	MPa	Psi	MPa	Psi	mm	kg/m
6.3	1/4	-4	6.1	6.9	10.6	11.7	14.2	40	5800	80	11600	160	23200	75	0.30
8	5/16	-5	7.7	8.5	12.1	13.3	16.0	35	5075	70	10120	140	20300	85	0.34
10	3/8	-6	9.3	10.1	14.4	15.6	18.3	33	4785	66	9570	132	19140	90	0.42
12.5	1/2	-8	12.3	13.5	17.5	19.1	21.5	27.5	3990	55	7975	110	15950	130	0.54
16	5/8	-10	15.5	16.7	20.5	22.3	24.7	25	3625	50	7250	100	14500	170	0.68
19	3/4	-12	18.6	19.8	24.6	26.4	28.6	21.5	3120	43	6235	86	12470	200	0.80
25	1	-16	25.0	26.4	32.5	34.3	36.6	16.5	2390	33	4785	66	9570	250	1.15

# [ Production Process ]



The rubber hose production process is generally divided into eight steps. Before production, we should prepare inner rubber, middle rubber and outer rubber. All these material have been prepared. Then we begin to make the tube. First, we use the extruded machine extruding the inner tube on prepared hard core or soft core. Note that the extruded machine should be preheated firstly and hard core or soft core should be painted with release agent. Second, according to customers' requirements, the inner tube will be braided or spiraled with steel wire or fiber. Third, we put the inner tube in the extruded machine again and extruded the outer tube. Fourth, we will wrap water cloth on the rubber hose for protecting its' surface in vulcanizing process.

Fifth, we will put the tube into the vulcanizing boiler. And the methods we adopted are direct steam heating of vulcanizing boiler or continuous vulcanizing which assure the performance of rubber hose during application. Sixth, we take off the wrapping cloth of the rubber hose and draw out the hard core or soft core. Seventh, we will test the rubber hose performance: mainly working pressure test and burst pressure test. Finally, we will pack the rubber hose with hessian bag and can also can pack the hose in wooden box. This process is the basic process of making rubber hose and if the customer has other requirements, we will further process the rubber hose.



# Hydraulic Rubber Hose Precautions for use



**High pressure rubber hose installation:** correct using vs wrong using.

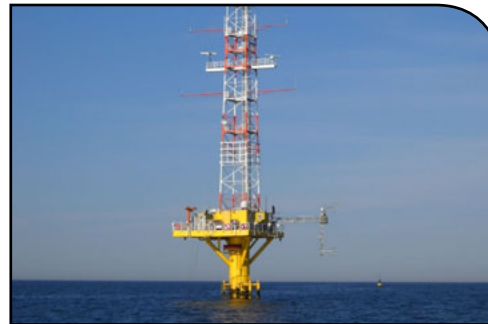
<b>Correct</b>							
<b>Notice</b>	Avoid distorting assembly. When moving the parts may cause the hose twisted, so please avoid this by correct installation.		Avoid the tight bend radius, so please use the proper fittings. Do not begin to bend closer than 1.5 times "d" to the ferrule.			Avoid contacting with objects that may cause abrasion or damage. So in the process of application, please pay particular attention to specify the hose length to avoid tensile stress or abrasion.	
<b>Wrong</b>							

# Hydraulic Rubber Hose Application



With high pressure resistance, high temperature resistance, good flexibility, little deformation under pressure and convenient to maintenance, high pressure hose is widely used in engineering machinery, coal industry, oil and chemical, metallurgy, mine, architecture and transportation and so on.

## High pressure rubber hose for offshore oil drilling and transportation.





## High pressure rubber hose for coal industry.



## High pressure rubber hose for oil exploration.



## High pressure rubber hose for engineering machinery.





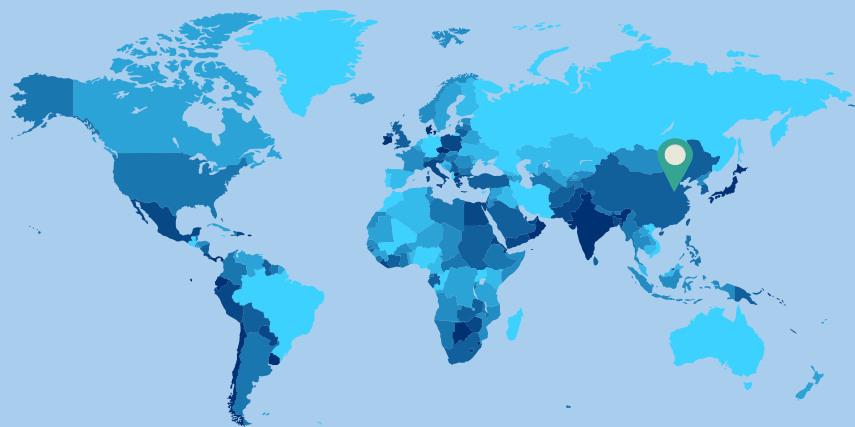
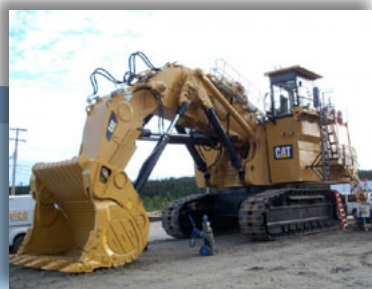
# HEBEI QIANLI RUBBER PRODUCTS CO., LTD.



Uniform thickness & good flexibility

High pressure & temperature resistance

Excellent adhesion between rubber & steel wire



## Get in touch

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