



SERVICES & TRADING

Hydraulic Hoses, Fittings, Adaptors, Ball Valves

Hydraulic Pumps & Motor Servicing

Hydraulic Cylinder Fabrication and Servicing

Hydraulic Power Pack Fabrication and Servicing

Hydraulic Valves

Diesel Pumps, Injector & Turbo Charger Repairs

Hydraulic Seals

Diagnosis of Trucks & Construction Equipments

Lubricants & Coolants

Batteries





HOSE ASSEMBLY FABRICATION AND HOSE SERVICE

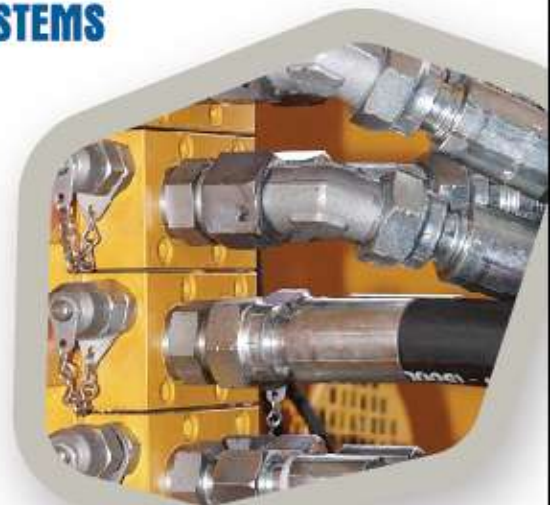
AHE manufactures and assembles hydraulic hoses from quality brands such as Aeroquip, Parker, Eaton, Manuli, to name a few. In addition we can also provide air hoses, chemical hoses, water hoses, oil suction hoses, thermo-plastic hoses.

AHE Provides hose crimping services at site 24x7



REPAIRING, TESTING AND CALIBRATION OF HYDRAULIC SYSTEMS

AHE engineers and technicians can take care of service and maintenance requirements of the hydraulic systems in mobile and earthmoving equipment



Rexroth
Bosch Group





Diagnosis of Trucks & Construction Equipment (Computer Check):

As optimal diesel partners of BOSCH AHE trading and contracting have complete ECI(Tronic) services to diagnose problem in Diesel Trucks and Construction Machinery. We are here to save your time and diagnose correct problem in Engines, Hydraulic Systems and electrical. We have in house and site services. We can print ECU report as well and provide solution to repair the right part.

After repairing we can recalibrate your systems as well.

KTS Diesel Trucks

- 1) MERCEDES (Actors)
- 2) MERCEDES (MAN)
- 3) ASHOK LEYLAND
- 4) ASTRA
- 5) CAT
- 6) DAEWOO
- 7) DAF
- 8) FOTON
- 9) HINO
- 10) HYUNDAI
- 11) ISUZU
- 12) IVECO
- 13) JAC
- 14) SCANIA
- 15) SHACMAN
- 16) TATA
- 17) UD Trucks
- 18) VOLVO

Construction Machines:

- 1) BOBCAT
- 2) BOMAG
- 3) CASE
- 4) CAT
- 5) DOSSAN
- 6) BYNAPAC
- 7) HITACHI
- 8) JCB
- 9) KOBELCO
- 10) KUMATSU
- 11) SANY
- 12) TEREX
- 13) VOLVO
- 14) WACKER NEUSON
- 15) XCMG



Lubricants & Coolants:

Adeel Heavy Equipment Trading & Contracting (AHE)

constitute the ultimate choice of lubricant for your machine to help it function smoothly without any interruption for a long time.

If you have been searching for a reliable lubrication oil to boost the performance and cut down the costs on the maintenance of your machines, you have found the right supplier. Adeel Heavy Equipment will fulfill your needs offering the best specifications and properties of lubes available in the Middle East. Lubricant we can supply are as below.

- 1) 15w40 (CI-4) Diesel Engine Oil
- 2) 10W40 (CI-4, SN) Diesel Engine Oil
- 3) 20W50, Petrol Engine Oil
- 4) Hydraulic Oils ISO, AWS 68 & 46
- 5) Grease MP2, MP3, EP2, EP3 Etc
- 6) Glycol Coolant 50%: 50%



Batteries:

AHE is having wide range of Batteries and can serve automotive,

Commercial and industrial Industry. Our batteries range start from (8.5AH – 200AH).

Power your machine with our full line of automotive, Commercial and Sports Batteries.

We can supply different brand of batteries like: BOSCH, FIERTE, MUTLU, RASAS etc.



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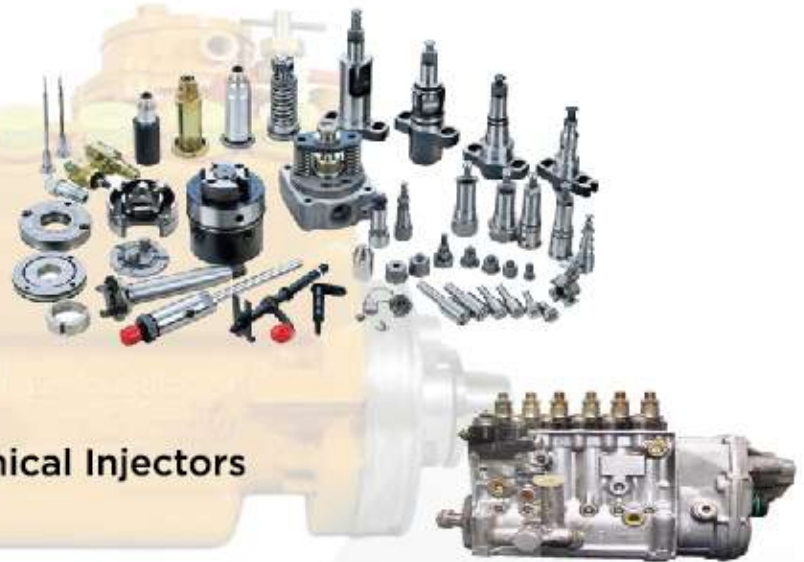
@aheqatar



Fuel Injection Systems & Turbo Charger Diagnosis and repair

The electric fuel pump is the heart of every electronic or mechanical fuel injection system. AHE Trading and contracting is Optimal Diesel Partner of Bosch in Qatar. Using Latest and genuine test benches from BOSCH and CAT we can test and calibrate to the relevant manufacturer specification. We AHE diagnose, service, repair and maintain all diesel:

1. Common Rail Systems
2. Unit Pump Systems
3. Inline Fuel Injection Pumps
4. Unit Injection System
5. Distributor Pumps
6. Electronic Diesel Control
7. Radial Piston Pumps
8. Nozzles
9. Electronic Injectors and Mechanical Injectors
10. Turbocharger
11. Alternator
12. Starter Motor



We provide honest advice on your diesel application for getting best performance of your Diesel FIP and injectors.



AHE Trading and contracting uses the latest tools and test benches and information provided to us by the original fuel injection equipment (FIE) manufacturer. When a pump leaves our facility, we want it to be better than the original.

We specialize in maintaining, overhauling and repairing diesel fuel injection systems and turbocharger, these include:

- 1) Bosch
- 2) Zexel
- 3) Delphi/Lucas
- 4) Denso/Nippon
- 5) Standyne
- 6) CAT
- 7) Volvo
- 8) Cummins
- 9) Yanmar
- 10) JCB and others



As fitted to automotive, plant, agricultural and marine applications. We repair MARINE Injectors as well at our service center.

AHE sell new Genuine, OEM and aftermarket fuel injection pumps and injectors as per customer requirement on back to back orders.





Hydraulic Seals

Hydraulic applications are challenging for Seals. Not only must the hydraulic seals and cylinder seals prevent leakage of fluid from the Cylinder, but hydraulic seals must also withstand high pressures, extreme temperatures and transverse forces within the cylinder. In such applications, the function of Hydraulic Seals goes far beyond preventing fluid leakage.

Adeel Heavy Equipment Trading and Contracting Sealing Solutions offers a wide range of Seals for all applications within hydraulic cylinders, Rod seals and piston seals prevent leakage of fluid from cylinders and stop pressure build-up.

We are not only technically knowledgeable about hydraulic seals, but we also have the hands-on experience to back it up.





Hydraulic Cylinders/Jacks

Adeel Heavy Equipment Trading & Contracting of all types of hydraulic lifting systems. Our team has the experience needed to diagnose and repair your system while providing parts from existing stock, or immediately available.

Our large inventory, sales force knowledge and equipment service capabilities make us the to provider for repairs of your system, regardless of the complexity.

Trust Your Cylinder/Jack Repairs to Us:

1. Cylinder repair
2. Floor jacks
3. Single-acting cylinders
4. Double-acting cylinders
5. Rephasing cylinders
6. Bottle jacks
7. Personalized service
8. Air cylinders
9. Tie rod cylinders
10. Axle jacks
11. Transmission jacks
12. Telescopic jacks
13. Low lift jacks
14. Huge inventory of parts in stock
15. Custom made cylinders for your specific needs
16. High Tonnage Press cylinders (Power Team, Enerpac, etc)
17. Telescopic cylinders (Hyco, Mailhot, Heil, Custom Hoist, etc)



Routine maintenance goes a long way in helping your hydraulic Cylinder/jack stay in good operating condition. Let us provide the parts and services to keep your jack performing.



ADEEL HEAVY EQUIPMENT

TRAD. & CONT.

Building The Future With The Strength Of Past



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INFRASTRUCTURE WORKS



AHE provides and Participates

- General Construction
- Infrastructure Works
- Maintenance Works
- Road Works
- MEP Works
- Hard & Soft Landscaping Works



INFRASTRUCTURE WORKS



EXCAVATION & EARTH WORKS



AHE, is engaged in earthworks since its inception such as

- Large Scale Earthwork Projects
- Rock Excavation Works
- Aggregate, Crushing & Sieving
- Installation of MSE Walls
- Demolition Works
- Ground Improvement Works
- Backfilling & Compaction Works



EXCAVATION & EARTH WORKS



BUILDING WORKS



AHE, has been involved in Building Construction since 2014. We are specialized in the construction of

- Commercial Buildings
- Residential Buildings
- Industrial Buildings
- Guard Houses
- Substations
- Warehouse Construction



RENTAL OF HEAVY EQUIPMENT



AHE provide the best of rental services of heavy equipment which are as follow

- Supply of Track / Wheel / Rubber / Long Boom Excavator
- Supply of Wheel / Backhoe / Skid Steer Loader
- Supply of Motor Grader & Dozer
- Supply of Tele Handler
- Supply of Mobile Crane
- Supply of Roller Compactors (3 to 15 Ton)
- Supply of Fork lifter (750KG to 15 Ton)
- Supply of Tanker – Water/Irrigation/ Sewage
- Supply of Trailers – 3 Axle, 2 Axle & Single Axle
- Supply of Canter Pick Ups – 3/5 Ton
- Supply of Boom Truck (5/10 Ton)



AHE is committed to delivering a first class service within the Civil Infrastructure Construction Industry in the State of Qatar Since 2014.

AHE provides & participates

- Infrastructure Works
- Excavations & Earth Works
- Building Works
- Rental of Heavy Equipment



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SAE100 R1AT/EN 853 1SN

ONE LAYER STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber

REINFORCEMENT:single layer of steel wire braided

COVER:Black, oil resistant, synthetic rubber.

APPLICATION:

Medium pressure hydraulic lines. Meets or exceeds the requirements of SAE 100 R1 Type AT and performance requirements of EN 853 1SN.

Mine hydraulic support, oilfield extraction machinery, mine/ road/ construction machinery.

SURFACE:wrapped surface,smooth surface

TEMPERATURE RANGE:-40°C (-104 °F) to +100°C (+212 °F)



SAE 100 R1 AT

Item Code	Metric Size	Inch Size	SAE Dash size	 I.D.		REINFORCEMENT W.D		 O.D		 W.P		 B.P	 R	 kg
				(mm)		(mm)		(mm)						
	mm	Inches	Dash	Min	Max	Min	Max	Max		Mpa	Psi	Mpa	mm	Kg/m
R1-05	5.0	3/16"	03	4.6	5.4	8.9	10.1	12.5		21.0	3150	84.0	90	0.20
R1-06	6.3	1/4"	04	6.2	7.0	10.6	11.7	14.1		19.2	2880	77.0	100	0.25
R1-08	8.0	5/16"	05	7.7	8.5	12.1	13.3	15.7		17.5	2625	70.0	115	0.31
R1-10	10.0	3/8"	06	9.3	10.1	14.5	15.7	18.1		15.7	2355	63.0	125	0.36
R1-13	12.5	1/2"	08	12.3	13.5	17.5	19.0	21.5		14.0	2100	56.0	180	0.45
R1-16	16.0	5/8"	10	15.5	16.7	20.6	22.2	24.7		10.5	1575	42.0	205	0.52
R1-19	19.0	3/4"	12	18.6	19.8	24.6	26.2	28.6		8.7	1305	35.0	240	0.65
R1-25	25.0	1	16	25.0	26.4	32.5	34.1	36.6		7.0	1050	28.0	300	0.91
R1-32	31.5	1.1/4"	20	31.4	33.0	39.3	41.7	44.8		4.3	645	17.5	420	1.30
R1-38	38.0	1.1/2"	24	37.7	39.3	45.6	48.0	52.0		3.5	525	14.0	500	1.70
R1-51	51.0	2	30	50.4	52.0	58.7	61.7	65.9		2.6	390	10.5	630	2.00

EN 853 1SN

Item Code	Metric Size	Inch Size	SAE Dash size	 I.D		REINFORCEMENT W.D		 O.D		 W.P		 B.P	 R	 kg
				(mm)		(mm)		(mm)						
	mm	Inches	Dash	Min	Max	Min	Max	Max	Mpa	Psi	Mpa	mm	Kg/m	
1SN-05	5.0	3/16"	03	4.6	5.4	9.0	10.0	12.5	25.0	3750	100	90	0.20	
1SN-06	6.3	1/4"	04	6.2	7.0	10.6	11.6	14.1	22.5	3375	90	100	0.25	
1SN-08	8.0	5/16"	05	7.7	8.5	12.1	13.3	15.7	21.5	3225	85	115	0.31	
1SN-10	10.0	3/8"	06	9.3	10.1	14.5	15.7	18.1	18.0	2700	72	130	0.36	
1SN-13	12.5	1/2"	08	12.3	13.5	17.5	19.1	21.4	16.0	2400	64	180	0.45	
1SN-16	16.0	5/8"	10	15.5	16.7	20.6	22.2	24.5	13.0	1950	52	200	0.52	
1SN-19	19.0	3/4"	12	18.6	19.8	24.6	26.2	28.5	10.5	1575	42	240	0.65	
1SN-25	25.0	1	16	25.0	26.4	32.5	34.1	36.6	8.8	1320	35	300	0.91	
1SN-32	31.5	1.1/4"	20	31.4	33.0	39.3	41.7	44.8	6.3	945	25	420	1.30	
1SN-38	38.0	1.1/2"	24	37.7	39.3	45.6	48.0	52.1	5.0	750	20	500	1.70	
1SN-51	51.0	2	30	50.4	52.0	58.7	61.7	65.5	4.0	600	16	630	2.00	

HYDRAULIC HOSE



SAE100 R2AT/EN 853 2SN

TWO LAYER STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber

REINFORCEMENT:two layers of steel wire braided

COVER:oil and weather resistant synthetic rubber

APPLICATION:High-pressure hydraulic lines. Meets or exceeds the requirements of SAE 100R2AT performance requirements of EN853 2SN. For high pressure hydraulic systems in industry and agriculture.

SURFACE:wrapped surface,smooth surface

TEMPERATURE RANGE:40°C (-104 °F) to 100°C (+212 °F)



SAE 100 R2 AT

Item Code	Metric Size	Inch Size	SAE Dash size	I.D		REINFORCEMENT W.D		O.D	W.P		B.P	R	kg
				(mm)		(mm)		(mm)					
	mm	Inches	Dash	Min	Max	Min	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
R2-05	5.0	3/16"	03	4.6	5.4	10.6	11.7	14.1	35.0	5250	140.0	90	0.32
R2-06	6.3	1/4"	04	6.2	7.0	12.1	13.3	15.7	35.0	5250	140.0	100	0.36
R2-08	8.0	5/16"	05	7.7	8.5	13.7	14.9	17.3	29.7	4455	119.0	115	0.45
R2-10	10.0	3/8"	06	9.3	10.1	16.1	17.3	19.7	28.0	4200	112.0	125	0.54
R2-13	12.5	1/2"	08	12.3	13.5	19.0	20.6	23.1	24.5	3675	98.0	180	0.68
R2-16	16.0	5/8"	10	15.5	16.7	22.2	23.8	26.3	19.2	2880	77.0	205	0.80
R2-19	19.0	3/4"	12	18.6	19.8	26.2	27.8	30.2	15.7	2355	63.0	240	0.94
R2-25	25.0	1	16	25.0	26.4	34.1	35.7	38.9	14.0	2100	56.0	300	1.35
R2-32	31.5	1.1/4"	20	31.4	33.0	43.2	45.6	49.6	11.3	1695	45.5	420	2.15
R2-38	38.0	1.1/2"	24	37.7	39.3	49.6	52.0	56.0	8.7	1305	43.5	500	2.65
R2-51	51.0	2	30	50.4	52.0	62.3	64.7	68.6	7.8	1170	31.5	630	3.42

EN 853 2SN

Item Code	Metric Size	Inch Size	SAE Dash size	I.D		REINFORCEMENT W.D		O.D	W.P		B.P	R	kg
				(mm)		(mm)		(mm)					
	mm	Inches	Dash	Min	Max	Min	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
2SN-05	5.0	3/16"	03	4.6	5.4	10.6	11.6	14.1	41.5	6225	165	90	0.32
2SN-06	6.3	1/4"	04	6.2	7.0	12.1	13.3	15.7	40.0	6000	160	100	0.36
2SN-08	8.0	5/16"	05	7.7	8.5	13.7	14.9	17.3	35.0	5250	140	115	0.45
2SN-10	10.0	3/8"	06	9.3	10.1	16.1	17.3	19.7	33.0	4950	132	130	0.54
2SN-13	12.5	1/2"	08	12.3	13.5	19.0	20.6	23.0	27.5	4125	110	180	0.68
2SN-16	16.0	5/8"	10	15.5	16.7	22.2	23.8	26.2	25.0	3750	100	200	0.80
2SN-19	19.0	3/4"	12	18.6	19.8	26.2	27.8	30.1	21.5	3225	85	240	0.94
2SN-25	25.0	1	16	25.0	26.4	34.1	35.7	38.9	16.5	2475	65	300	1.35
2SN-31	31.5	1.1/4"	20	31.4	33.0	43.3	45.6	49.5	12.5	1875	50	420	2.15
2SN-38	38.0	1.1/2"	24	37.7	39.3	49.6	52.0	55.9	9.0	1350	36	500	2.65
2SN-51	51.0	2	30	50.4	52.0	62.3	64.7	68.6	8.0	1200	32	630	3.42

BLUE HIGH TEMPERATURE HYDRAULIC OIL HOSE

Construction:

Tube: oil resistant synthetic nitrile rubber

Reinforcement: 1 or 2 layer steel wire braiding

Cover: oil resistant synthetic nitrile rubber

Application: The high temperature resistant high pressure hose is designed for petroleum and fire-resistant hydraulic fluids, fuel and lubricating oils, gasoline, water and other industrial fluids.

Characteristics:

- High temperature resistant range up to +150°C
- Excellent Anti aging and abrasion resistance.
- UV and ozone resistant.

Temperature: -40°C to +150°C (-40°F to +302°F)



SAE 100R1AT, EN 853 1SN TYPE, BLUE SINGLE WIRE BRAID HOSE

Item Code	I.D.		O.D.		W.P.		B.P.		R		kg	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft
HR1-06	6.4	1/4	13.5	0.53	225	3,250	900	13,000	100	4	0.25	0.17
HR1-10	9.5	3/8	17.5	0.69	215	3,125	860	12,500	125	5	0.37	0.25
HR1-12	12.7	1/2	20.6	0.81	175	2,550	700	10,200	180	7	0.45	0.3
HR1-16	16	5/8	23.9	0.94	140	2,050	560	8,200	205	8	0.54	0.36
HR1-19	19.1	3/4	27.7	1.09	125	1,800	500	7,200	240	9.5	0.68	0.46
HR1-25	25.4	1	35.8	1.41	90	1,300	360	5,200	300	12	0.98	0.66
HR1-32	31.8	1-1/4	43.9	1.73	65	950	260	3,800	420	16.5	1.26	0.85
HR1-38	38.1	1-1/2	50.6	1.99	50	725	200	2,900	500	19.69	1.58	1.06
HR1-51	50.8	2	64	2.52	40	580	160	2,320	630	24.8	2.04	1.37

SAE 100R2AT, EN 853 2SN TYPE, BLUE DOUBLE WIRE BRAID HOSE

Item Code	I.D.		O.D.		W.P.		B.P.		R		kg	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft
HR2-06	6.4	1/4	15.2	0.6	400	5,800	1,600	23,200	102	4.02	0.4	0.27
HR2-10	9.5	3/8	19.1	0.75	345	5,000	1,380	20,000	125	4.92	0.6	0.39
HR2-12	12.7	1/2	22.1	0.87	293	4,250	1,172	17,000	180	7.09	0.68	0.46
HR2-16	16	5/8	25.2	0.99	250	3,650	1,000	14,600	205	8.07	0.8	0.54
HR2-19	19.1	3/4	29.5	1.16	215	3,125	860	12,500	240	9.45	1	0.67
HR2-25	25.4	1	37.9	1.49	175	2,550	700	10,200	300	11.81	1.44	0.97
HR2-32	31.8	1-1/4	48.8	1.92	155	2,250	620	9,000	420	16.54	2.39	1.6
HR2-38	38.1	1-1/2	54.6	2.15	125	1,800	500	7,200	500	19.68	2.6	1.74
HR2-51	50.8	2	67.8	2.67	105	1,525	420	6,100	630	24.8	3.38	2.27

HYDRAULIC HOSE



SAE100 R3/EN 854 R3

TWO LAYER FIBER BRAID HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber

REINFORCEMENT:two layers of high strength fiber braided

COVER:oil and weather resistant synthetic rubber

APPLICATION:petroleum base and water base hydraulic fluids

SURFACE:wrapped surface,smooth surface

TEMPERATURE RANGE:-40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		O.D		Max W.P		Min B.P	Min B.R	W.T
				Standard(mm)		Standard(mm)						
	mm	Inches	Dash	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
R3-05	5	3/16	03	4.5	5.4	11.9	13.5	10.5	1520	42.0	75	0.16
R3-06	6.3	1/4	04	6.1	7.0	13.5	15.1	8.7	1260	34.8	75	0.19
R3-08	8	5/16	05	7.6	8.5	16.7	18.3	8.4	1220	33.6	100	0.25
R3-10	10	3/8	06	9.2	10.1	18.3	19.8	7.8	1130	31.2	100	0.29
R3-12	12.5	1/2	08	12.4	13.5	23.0	24.6	7.0	1020	28.0	125	0.41
R3-16	16	5/8	10	15.6	16.7	26.2	27.8	6.1	880	24.4	140	0.49
R3-19	19	3/4	12	18.7	19.8	31.0	32.5	5.2	750	20.8	150	0.66
R3-25	25	1	16	25.1	26.2	36.9	39.3	3.9	570	15.6	205	0.81
R3-32	31.8	1-1/4	20	31.4	32.9	42.9	46.0	2.6	380	10.4	250	0.97

SAE100 R4

EMBEDED WIRE HELIX HYDRAULIC OIL SUCTION HOSE

INNER TUBE:oil resistant synthetic nitrile rubber

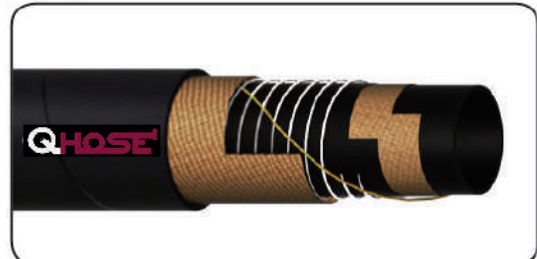
REINFORCEMENT:2 layer or 4 layers of high strength synthetic textile and helix steel wire

COVER:oil and weather resistant synthetic rubber

APPLICATION:petroleum base and water base hydraulic fluids

SURFACE:wrapped surface

TEMPERATURE RANGE:-40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D.		O.D	Max W.P		Min B.P	Min B.R	W.T
				Standard (mm)		Standard (mm)					
	mm	Inches	Dash	Min	Max	Min	Mpa	Psi	Mpa	mm	Kg/m
R4-19	19	3/4	12	18.2	19.8	34.9	2.1	305	8.4	125	0.81
R4-25	25	1	16	24.6	26.2	41.3	1.7	250	6.8	150	0.97
R4-32	31.8	1-1/4	20	30.6	33.0	50.8	1.4	200	5.6	200	1.24
R4-38	38	1-1/2	24	36.9	39.3	57.2	1.1	150	4.2	255	1.50
R4-51	51	2	32	49.2	52.4	69.9	0.7	100	2.8	300	1.89
R4-63	63	2-1/2	40	61.9	65.1	82.6	0.4	60	1.6	355	2.54
R4-76	76	3	48	74.6	77.8	95.3	0.4	60	1.6	460	3.20
R4-89	89	3-1/2	56	87.3	90.5	107.9	0.3	40	1.2	530	3.84

SAE100 R5

ONE LAYER WIRE BRAID, TEXTILE COVERED HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber**REINFORCEMENT:**single layer of steel wire braided**COVER:**single layer of fibre braided**APPLICATION:**petroleum base and water base hydraulic fluids**TEMPERATURE RANGE:**-40°C (-104 °F) to +100°C (+212 °F)

Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		O.D		Max W.P		Min B.P	Min B.R	W.T
				Standard(mm)		Standard(mm)						
	mm	Inches	Dash	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
R5-05	5	3/16	03	4.8	5.5	12.7	13.7	21.0	3050	84.0	75	0.22
R5-06	6.4	1/4	04	6.4	7.2	14.3	15.3	21.0	3050	84.0	85	0.26
R5-08	8	5/16	05	7.9	8.7	16.7	17.6	15.7	2280	62.8	100	0.32
R5-11	11	13/32	06	10.3	11.1	18.9	20.0	14.0	2030	56.0	115	0.37
R5-12	12.5	1/2	08	12.7	13.7	22.8	24.0	12.2	1770	48.8	140	0.55
R5-16	16	5/8	10	15.9	17.0	26.8	28.0	10.5	1520	42.0	165	0.63
R5-22	22	7/8	14	22.2	23.3	30.6	32.2	5.6	810	22.4	185	0.70
R5-29	29	1-1/8	18	28.6	29.8	37.3	38.9	4.3	620	17.2	230	0.83
R5-35	35	1-3/8	22	34.9	36.1	43.7	45.2	3.5	510	14.0	265	0.98
R5-46	46	1-13/16	29	46.0	47.2	55.2	57.6	2.4	350	9.6	335	1.37
R5-60	60	2-3/8	38	60.3	61.9	71.8	74.2	2.4	350	9.6	610	1.89
R5-76	76	3	48	76.2	77.8	89.3	91.7	1.4	200	5.6	840	2.71

SAE100 R6/EN854 R6

ONE LAYER FIBER BRAID HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber**REINFORCEMENT:**single layer of fibre braided**COVER:**oil and weather resistant synthetic rubber**APPLICATION:**petroleum base and water base hydraulic fluids**TEMPERATURE RANGE:**-40°C (-104 °F) to +100°C (+212 °F)

Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		O.D		Max W.P		Min B.P	Min B.R	W.T
				Standard(mm)		Standard(mm)						
	mm	Inches	Dash	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
R6-05	5	3/16	03	4.2	5.4	10.3	11.9	3.5	510	14.0	50	0.12
R6-06	6.3	1/4	04	5.6	7.2	11.9	13.5	2.8	410	11.2	65	0.15
R6-08	8	5/16	05	7.2	8.8	13.5	15.1	2.8	410	11.2	75	0.18
R6-10	10	3/8	06	8.7	10.3	15.1	16.7	2.8	410	11.2	75	0.21
R6-12	12.5	1/2	08	11.9	13.5	19.0	20.6	2.8	410	11.2	100	0.27
R6-16	16	5/8	10	15.1	16.7	22.2	23.8	2.4	350	9.6	9.6	0.32
R6-19	19	3/4	12	18.3	19.9	25.4	27.8	2.1	300	8.4	8.4	0.42

HYDRAULIC HOSE



SAE100R7/EN855 R7(FIBRE BRAID)

FIBER BRAID(NONMETALLIC) RESIN HOE

INNER TUBE: Oil resistant seamless thermoplastic Polyamide (PA) tube.

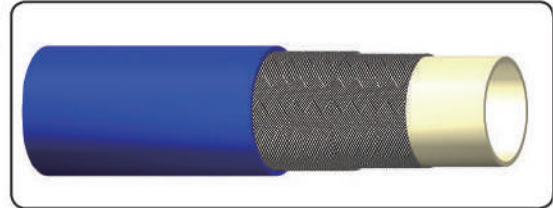
REINFORCEMENT: one or two layer braided high tensile synthetic fibre.

COVER: Black high abrasion resistant polyurethane.

APPLICATION: Medium pressure hydraulic and pneumatic systems.

Meets or exceeds SAE 100R7 requirements. For pneumatic or gaseous systems, use perforated (pin-pricked) hose.

TEMPERATURE RANGE:-40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D Standard	O.D Standard(mm)		Allowed Tolerance	Max W.P		Min B.P(Mpa)		Min B.R(mm)		W.T(g/m)	
	mm	Inches	Dash	mm	one layer	two layers	mm	psi	psi	one layer	two layers	one layer	two layers	one layer	two layers
R7f-05	5	3/16	03	4.8	10.3	10.8	±0.10	3045	3620	84.0	100.0	35	55	65	70
R7f-06	6.3	1/4	04	6.3	12.7	13.3	±0.10	2900	3980	80.0	110.0	50	75	80	125
R7f-08	8	5/16	05	7.9	14.3	15.0	±0.10	2755	3770	76.0	105.0	50	85	125	150
R7f-10	10	3/8	06	9.5	15.9	18.0	±0.10	2540	3620	70.0	100.0	80	100	140	210
R7f-12	12.5	1/2	08	12.7	19.8	21.6	±0.15	2030	3040	56.0	84.0	100	140	200	260
R7f-16	16	5/8	10	15.9	23.3	23.6	±0.15	1885	2320	52.0	64.0	160	165	260	295
R7f-19	19	3/4	12	18.9	26.5	26.4	±0.15	1305	2030	36.0	56.0	180	195	320	315
R7f-25	25	1	16	25.4	34.0	34.0	±0.20	1015	1520	28.0	42.0	250	256	400	450

SAE100 R7/EN855 R7(STEEL WIRE BRAID)

STEEL WIRE BRAID RESIN HOSE

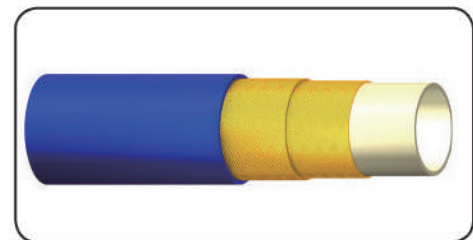
INNER TUBE: Oil resistant seamless thermoplastic Polyamide (PA) tube.

REINFORCEMENT: one or two layer braided high tensile steel wire.

COVER: Black high abrasion resistant polyurethane.

APPLICATION: Medium pressure hydraulic and pneumatic systems. Meets or exceeds SAE 100R7 requirements. For pneumatic or gaseous systems, use perforated (pin-pricked) hose.

TEMPERATURE RANGE:40°C (-104 °F) to 100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D Standard	O.D Standard(mm)		Allowed Tolerance	Max W.P		Min B.P(Mpa)		Min B.R(mm)		W.T(g/m)	
	mm	Inches	Dash	mm	one layer	two layers	mm	psi	psi	one layer	two layers	one layer	two layers	one layer	two layers
R7s-06	6.3	1/4	04	6.3	12.7	13.3	±0.10	3990	5070	110.0	140.0	40	40	160	290
R7s-08	8	5/16	05	7.9	14.3	14.9	±0.10	3620	4710	100.0	130.0	55	50	215	340
R7s-10	10	3/8	06	9.5	15.9	16.7	±0.10	3260	4200	90.0	116.0	65	70	240	400
R7s-12	12.5	1/2	08	12.7	19.8	19.8	±0.15	2540	3770	70.0	105.0	85	80	310	560
R7s-16	16	5/8	10	15.9	23.3	23.3	±0.15	2030	2900	56.0	80.0	115	130	410	630
R7s-19	19	3/4	12	18.9	26.5	26.0	±0.15	1740	2540	48.0	70.0	140	160	500	750
R7s-25	25	1	16	25.4	34.0	33.0	±0.20	1450	1740	40.0	48.0	180	220	650	1000

SAE100R7/EN855 R7(TWIN HOSE)

FIBRE OR WIRE BRAID RESIN TWIN HOE

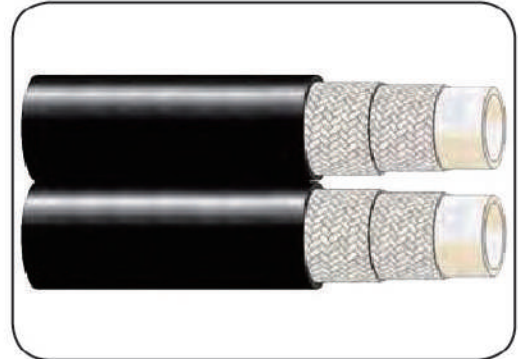
INNER TUBE: Oil resistant seamless thermoplastic Polyamide (PA) tube.

REINFORCEMENT: one or two layer braided high tensile synthetic fibre.

COVER: Black high abrasion resistant polyurethane.

APPLICATION: Medium pressure hydraulic and pneumatic systems. Meets or exceeds SAE 100R7 requirements. For pneumatic or gaseous systems, use perforated (pin-pricked) hose.

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D	O.D	Allowed Tolerance	Max W.P		Min B.P(Mpa)		Min B.R (mm)		W.T(g/m)	
				Standard	Standard		fiber braid	wire braid						
	mm	Inches	Dash	mm	mm		psi	psi	F.B	W.B	F.B	W.B	F.B	W.B
R7t-06	6.3	1/4	04	6.3	12.7	±0.10	3625	3990	100.0	110.0	50	40	220	360
R7t-08	8	5/16	05	7.9	14.3	±0.10	3045	3625	80.0	100.0	50	40	250	430
R7t-10	10	3/8	06	9.5	15.9	±0.15	2540	3260	70.0	90.0	80	50	280	480
R7t-12	12.5	1/2	08	12.7	19.8	±0.15	2320	2680	65.0	65.0	100	70	400	620

SAE100 R8/EN855 R8

ARAMID FIBRE BRAID RESIN HOSE

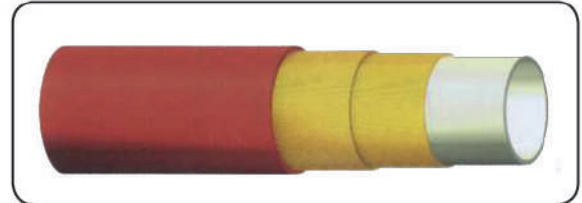
INNER TUBE: Oil resistant seamless thermoplastic Polyamide (PA) tube.

REINFORCEMENT: one or two layer braided high tensile aramid fibre

COVER: Black high abrasion resistant polyurethane.

APPLICATION: Medium pressure hydraulic and pneumatic systems. Meets or exceeds SAE 100R8 requirements. For pneumatic or gaseous systems, use perforated (pin-pricked) hose.

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D	O.D	Allowed Tolerance	Max W.P		Min B.P	Min B.R	W.T
				Standard	Standard		Mpa	psi	Mpa	mm	g/m
	mm	Inches	Dash	mm	mm						
R8-06	6.3	1/4	04	6.3	12.3	±0.10	38	5440	150.0	40	90
R8-08	8	5/16	05	7.9	14.3	±0.10	33	4710	130.0	45	115
R8-10	10	3/8	06	9.5	16.7	±0.15	28	4060	112.0	60	145
R8-12	12.5	1/2	08	12.7	19.8	±0.15	25	3620	100.0	80	205
R8-16	16	5/8	10	15.9	24.5	±0.15	23	3260	90.0	120	290
R8-19	19	3/4	12	18.9	28.0	±0.15	18	2540	70.0	140	345
R8-25	25	1	16	25.4	34.0	±0.20	15	2170	60.0	160	450

HYDRAULIC HOSE



SAE100R9/R10/R12

FOUR LAYERS SPIRAL STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: 4 layer of steel wire spiral

COVER: oil resistant synthetic nitrile rubber

APPLICATION: petroleum base and water base hydraulic fluids

TEMPERATURE RANGE:

-40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D		O.D		Max W.P		Min B.P	Min B.R	W.T
	mm	Inches	Dash	Min	Max	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
R12-10	10	3/8	06	9.3	10.1	16.6	17.8	19.5	21.0	28.0	4060	112.0	125	0.70
R12-12	12.5	1/2	08	12.3	13.5	19.9	21.5	23.0	24.6	28.0	4060	112.0	180	0.88
R12-16	16	5/8	10	15.5	16.7	23.8	25.4	26.5	28.2	28.0	4060	112.0	200	1.06
R12-19	19	3/4	12	18.6	19.8	26.9	28.4	29.9	31.5	28.0	4060	112.0	240	1.38
R12-25	25	1	16	25.0	26.4	34.1	35.7	36.8	39.2	28.0	4060	112.0	300	1.96
R12-31	31.8	1-1/4	20	31.4	33.0	42.7	45.1	45.4	48.6	21.0	3050	84.0	420	2.61
R12-38	38	1-1/2	24	37.7	39.3	49.2	51.6	51.9	55.0	17.5	2540	70.0	500	3.05
R12-51	51	2	32	50.8	52.0	62.5	64.8	65.1	68.3	17.5	2540	70.0	640	4.50

SAE100 R13

MULTIPLE LAYERS SPIRAL STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: 4 layer(3/4,1"),6 layer(1 1/4,1 1/2, 2") steel wire spiral

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

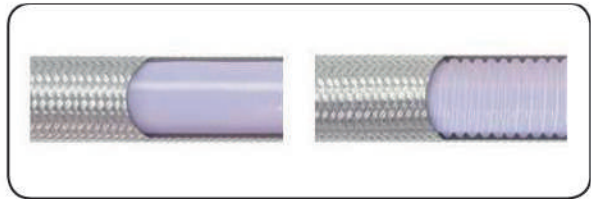
TEMPERATURE RANGE: -40°C (-104 °F) to +121°C (+250 °F)



Item Code	Metric size	Inch Size	SAE Dash Size	I.D		W.D		O.D		Max W.P		Min B.P	Min B.R	W.T
	mm	Inches	Dash	Min	Max	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
R13-19	19	3/4	12	18.6	19.8	28.2	29.8	31.0	33.2	35.0	5080	140.0	240	1.53
R13-25	25	1	16	25.0	26.4	34.1	36.0	37.6	39.8	35.0	5080	140.0	300	2.09
R13-32	32	1-1/4	20	31.4	33.0	45.6	48.0	48.3	51.3	35.0	5080	140.0	420	3.76
R13-38	38	1-1/2	24	37.7	39.3	53.1	55.5	55.8	58.8	35.0	5080	140.0	500	4.58
R13-51	51	2	32	50.4	52.0	66.9	69.3	69.5	72.7	35.0	5080	140.0	640	6.69

SAE 100R14

PTFE HOSE

INNER TUBE: PTFE**COVER:** stainless steeled wire braid**APPLICATION:** food industry, high and low temperature fluids, chemical industry, compressor discharge ect.**TEMPERATURE RANGE:** -73°C (-164 °F) to +260°C (+500 °F)

Item Code	Metric Size	Inch Size	SAE Dash Size	I.D	O.D	Max W.P		Min B.P	Min B.R	W.T
	mm	inches	Dash	mm	mm	Mpa	Psi	Mpa	mm	g/m
R14-03	3	1/8	02	3.5	6.6	11.0	1522	82.7	40.0	65
R14-05	5	3/16	03	4.8	7.9	11.0	1522	68.9	50.0	95
R14-06	6.3	1/4	04	6.4	9.5	11.0	1522	62.0	75.0	120
R14-08	8	5/16	05	8.0	11.1	11.0	1522	55.2	100.0	160
R14-10	10	3/8	06	9.5	12.6	11.0	1522	48.3	125.0	170
R14-13	12.5	1/2	08	12.9	16.1	6.0	812	41.4	165.0	240
R14-16	16	5/8	10	16.2	19.7	6.0	812	34.5	200.0	280
R14-19	19	3/4	12	19.0	23.6	6.0	812	27.6	230.0	330
R14-22	22	7/8	14	22.3	26.4	6.0	812	24.1	230.0	390
R14-25	25	1	16	25.5	29.6	6.0	812	24.1	300.0	460

Flexible metal Hose

Construction:

The corrugated metal pipe is made of stainless steel, by the process of strips, rounded, TIG welded, corrugated.

Characteristics:

The flexible corrugated metal pipe has a continuous ring-shaped waveform, with great flexibility;

It is not easy to cause bending torsional stress when subjected to force.

Material:321,304,316,316L

Item Code	DN		ID	OD(mm)		B.R.(mm)		PN(MPa)		
	inch	mm	mm	pipe	with 1 layer net set	Dynamic	Static	1 layer net	2 layer net	3 layer net
FMH12	1/2	12	12	18	21	40	130	10.0	12.0	25.0
FMH15	5/8	15	15	21.5	24.5	70	190	10.0	12.0	25.0
FMH18	2/3	18	18	25	28	90	205	8.0	12.0	25.0
FMH20	3/4	20	20	28	33	175	400	7.5	12.0	25.0
FMH25	1	25	24.4	32.5	35	225	510	6.3	10.0	15.0
FMH32	1 1/4	32	32	41	45	280	640	4.0	6.3	10.0
FMH40	1 1/2	40	39.6	51	55	350	800	2.5	4.0	6.3
FMH50	2	50	49.7	62	66	390	845	2.5	4.0	6.3
FMH65	2 3/5	65	64.8	78	82	480	1000	2.5	4.0	6.3
FMH80	3	80	74.7	98	102	600	1200	2.5	4.0	5.0
FMH100	4	100	96.5	120	125	750	1500	2.5	4.0	5.0
FMH125	5	125	124.7	152	157	900	1800	2.0	2.5	4.0
FMH150	6	150	149.4	182	187	1000	2000	1.6	2.5	4.0
FMH200	8	200	199.4	236	243	1250	2500	1.6	2.5	4.0
FMH250	10	250	248	292	297	1250	2500	1.6	2.5	4.0
FMH300	12	300	298	348	353	1500	3000	1.6	2.0	2.5
FMH350	14	350	347.6	398	403	1750	3500	1.0	2.0	2.5
FMH400	16	400	398	448	453	2000	4000	1.0	1.6	2.5
FMH450	18	450	448	498	503	2250	4500	1.0	1.6	2.5
FMH500	20	500	498	548	553	2500	5000	1.0	1.6	2.5
FMH600	24	600	598	648	653	3000	6000	0.6	1.0	1.6
FMH700	28	700	698	748	753	3500	7000	0.6	1.0	1.6
FMH800	32	800	798	848	853	4000	8000	0.6	1.0	1.6

HYDRAULIC HOSE



SAE 100R15

MULTIPLE LAYERS SPIRAL STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: 4 layer(3/8-1"), 6 layer(1 1/4, 1 1/2) steel wire spiral

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D.	O.D	Max W.P		Min B.P	Min B.R	W.T
				Standard(mm)		Standard (mm)	Standard (mm)					
				Min	Max	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
R15-10	10	3/8	06	9.3	10.1	20.3	23.3	42.0	6090	168.0	150.0	0.91
R15-13	12.5	1/2	08	12.3	13.5	24.0	26.8	42.0	6090	168.0	200.0	1.21
R15-19	19	3/4	12	18.6	19.8	32.9	36.1	42.0	6090	168.0	265.0	2.25
R15-25	25	1	16	25.0	26.4	38.9	42.9	42.0	6090	168.0	330.0	3.12
R15-32	31.5	1-1/4	20	31.4	33.0	48.4	51.5	42.0	6090	168.0	445.0	3.87
R15-38	38	1-1/2	24	37.7	39.3	56.3	59.6	42.0	6090	168.0	530.0	5.29

SAE 100R16

TWO LAYERS STEEL WIRE REINFORCED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: two layers of steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface , smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D	O.D	Max W.P		Min B.P	Min B.R	W.T
				Standard(mm)		Standard (mm)	Standard (mm)					
				Min	Max	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
R16-06	6.3	1/4	04	6.2	7.0	12.3	14.5	35.0	5075	140.0	50.0	0.31
R16-08	8	5/16	05	7.7	8.5	13.3	15.7	29.7	4307	119.0	55.0	0.35
R16-10	10	3/8	06	9.3	10.1	15.9	18.8	28.0	4060	112.0	65.0	0.47
R16-13	12.5	1/2	08	12.3	13.5	19.0	22.0	24.5	3553	98.0	90.0	0.54
R16-16	16	5/8	10	15.5	16.7	22.6	25.4	19.2	2784	77.0	100.0	0.7
R16-19	19	3/4	12	18.6	19.8	26.3	29.0	15.7	2277	63.0	120.0	0.86
R16-25	25	1	16	25.0	26.4	34.0	36.6	14.0	2030	56.0	150.0	1.2
R16-32	31.5	1-1/4	20	31.4	33.0	41.9	44.3	11.3	1639	45.0	210.0	1.6

SAE 100R17

ONE LAYER OR TWO LAYERS STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: one layer (1/4-1/2"), two Layer (5/8-1") of high-tensile steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D	O.D	Max W.P		Min B.P	Min B.R	W.T
				(mm)		(mm)	(mm)					
	mm	inches	Dash	Min	Max	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
R17-05	5	3/16	03	4.6	5.4	10.1	11.6	21.0	3045	84.0	45	0.18
R17-06	6.3	1/4	04	6.2	7.0	11.0	13.2	21.0	3045	84.0	50	0.21
R17-08	8	5/16	05	7.7	8.5	13.0	15.0	21.0	3045	84.0	55	0.26
R17-10	10	3/8	06	9.3	10.1	15.0	17.0	21.0	3045	84.0	65	0.32
R17-13	12.5	1/2	08	12.3	13.5	18.8	21.1	21.0	3045	84.0	90	0.42
R17-16	16	5/8	10	15.5	16.7	23.6	25.9	21.0	3045	84.0	100	0.73
R17-19	19	3/4	12	18.6	19.8	27.7	30.3	21.0	3045	84.0	120	0.93
R17-25	25	1	16	25.0	26.4	35.6	38.6	21.0	3045	84.0	150	1.32

EN854 1TE

LOW PRESSURE, TEXTILE REINFORCED HYDRAULIC RUBBER HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

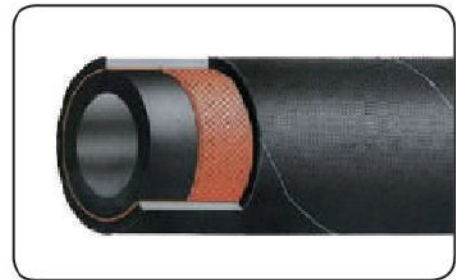
REINFORCEMENT: one layer textile yarn braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum-based hydraulic fluids under medium pressure

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		O.D		Max W.P		Min B.P	Min B.R	W.T
				(mm)		(mm)						
	mm	inches	Dash	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
1TE-05	5	3/16	03	4.4	5.2	10.0	11.6	2.5	360.0	10.0	35.0	0.12
1TE-06	6.3	1/4	04	5.9	6.9	11.6	13.2	2.5	360.0	10.0	45.0	0.13
1TE-08	8	5/16	05	7.4	8.4	13.1	14.7	2.0	290.0	8.0	65.0	0.16
1TE-10	10	3/8	06	9.0	10.0	14.7	16.3	2.0	290.0	8.0	75.0	0.18
1TE-13	12.5	1/2	08	12.1	13.3	17.7	19.7	1.6	230.0	6.4	90.0	0.23
1TE-16	16	5/8	10	15.3	16.5	21.9	23.9	1.6	230.0	6.4	115.0	0.3

HYDRAULIC HOSE



EN 854 2TE

MEDIUM PRESSURE TEXTILE REINFORCED HYDRAULIC RUBBER HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: two layers of fibre braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum-based hydraulic fluids under medium pressure

SURFACE: wrapped surface , smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		O.D		Max W.P		Min B.P	Min B.R	W.T
	mm	inches	Dash	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
2TE-05	5	3/16	03	4.4	5.2	11.0	12.6	8.0	1160	32.0	25.0	0.13
2TE-06	6.3	1/4	04	5.9	6.9	12.6	14.2	7.5	1090	30.0	40.0	0.16
2TE-08	8	5/16	05	7.4	8.4	14.1	15.7	6.8	990	27.2	50.0	0.18
2TE-10	10	3/8	06	9.0	10.0	15.7	17.3	6.3	910	25.2	60.0	0.21
2TE-13	12.5	1/2	08	12.1	13.3	18.7	20.7	5.8	840	23.2	70.0	0.27
2TE-16	16	5/8	10	15.3	16.5	22.9	24.9	5.0	730	20.0	90.0	0.34
2TE-19	19	3/4	12	18.2	19.8	26.0	28.0	4.5	650	18.0	110.0	0.41
2TE-25	25	1	16	24.6	26.2	32.9	35.9	4.0	580	16.0	150.0	0.58

EN854 3TE

HIGH PRESSURE, TEXTILE REINFORCED HYDRAULIC RUBBER HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

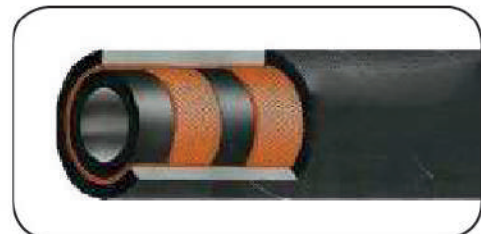
REINFORCEMENT: two layers of fibre braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum-based hydraulic fluids under medium pressure

SURFACE: wrapped surface , smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		O.D		Max W.P		Min B.P	Min B.R	W.T
	mm	inches	Dash	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
3TE-05	5	3/16	03	4.4	5.2	12.0	13.6	16.0	2320	64.0	40.0	0.17
3TE-06	6.3	1/4	04	5.9	6.9	13.6	15.2	14.5	2100	58.0	45.0	0.2
3TE-08	8	5/16	05	7.4	8.4	16.1	17.7	13.0	1890	52.0	55.0	0.24
3TE-10	10	3/8	06	9.0	10.0	17.7	19.3	11.0	1600	44.0	70.0	0.28
3TE-13	12.5	1/2	08	12.1	13.3	20.7	22.7	9.3	1350	37.2	85.0	0.43
3TE-16	16	5/8	10	15.3	16.5	24.9	26.9	8.0	1160	32.0	105.0	0.47
3TE-19	19	3/4	12	18.2	19.8	28.0	30.0	7.0	1020	28.0	130.0	0.54
3TE-25	25	1	16	24.6	26.2	34.4	37.4	5.5	800	22.0	150.0	0.72
3TE-32	31.5	1-1/4	20	30.8	32.8	40.8	43.8	4.5	650	18.0	190.0	0.88
3TE-38	38	1-1/2	24	37.1	39.1	47.6	51.6	4.0	580	16.0	240.0	1.07
3TE-51	51	2	32	49.8	51.8	60.3	64.3	3.3	480	13.2	300.0	1.36

EN856 4SP

FOUR LAYERS STEEL WIRE SPIRAL HIGH PRESSURE HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber**REINFORCEMENT:**4 layers of steel wire spiral.**COVER:**oil and weather resistant synthetic rubber**APPLICATION:**

petroleum base and water base hydraulic fluids

SURFACE:wrapped surface**TEMPERATURE RANGE:**

-40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D		O.D		Max W.P		Min B.P	Min B.R	W.T
				(mm)		(mm)		(mm)						
	mm	inches	Dash	Min	Max	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
4SP-06	6.3	1/4	04	6.2	7.0	14.1	15.3	17.1	18.7	45.0	6530	180.0	150.0	0.6
4SP-10	10	3/8	06	9.3	10.1	16.9	18.1	20.6	22.2	44.5	6450	178.0	180.0	0.76
4SP-13	12.5	1/2	08	12.3	13.5	19.4	21.0	23.8	25.4	41.5	6020	166.0	230.0	0.9
4SP-16	16	5/8	10	15.5	16.7	23.0	24.6	27.4	29.0	35.0	5080	140.0	250.0	1.1
4SP-19	19	3/4	12	18.6	19.8	27.4	29.0	31.4	33.0	35.0	5080	140.0	300.0	1.48
4SP-25	25	1	16	25.0	26.4	34.5	36.1	38.5	40.9	28.0	4060	112.0	340.0	2.02
4SP-32	31.5	1-1/4	20	31.4	33.0	45.0	47.0	49.2	52.4	21.0	3050	84.0	460.0	2.98
4SP-38	38	1-1/2	24	37.7	39.3	51.4	53.6	55.6	58.8	18.5	2680	74.0	560.0	3.55
4SP-51	51	2	32	50.4	52.0	64.3	66.3	68.2	71.4	16.5	2390	66.0	660.0	4.86

EN 856 4SH

FOUR LAYERS STEEL WIRE SPIRAL EXTRA HIGH PRESSURE HYDRAULIC HOSE

INNER TUBE:oil resistant synthetic nitrile rubber**REINFORCEMENT:** four layers of spiral steel wire**COVER:**oil and weather resistant synthetic rubber**APPLICATION:** petroleum base and water base hydraulic fluids**SURFACE:**wrapped surface**TEMPERATURE RANGE:**

-40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D		O.D		Max W.P		Min B.P	Min B.R	W.T
				(mm)		(mm)		(mm)						
	mm	inches	Dash	Min	Max	Min	Max	Min	Max	Mpa	Psi	Mpa	mm	Kg/m
4SH-19	19	3/4	12	18.6	19.8	27.6	29.2	31.4	33.0	42.0	6090	168.0	280.0	1.64
4SH-25	25	1	16	25.0	26.4	34.4	36.0	37.5	39.9	38.0	5510	152.0	340.0	2.03
4SH-32	31.5	1-1/4	20	31.4	33.0	40.9	42.9	43.9	47.1	32.5	4710	130.0	460.0	2.45
4SH-38	38	1-1/2	24	37.7	39.3	47.8	49.8	51.9	55.1	29.0	4210	116.0	560.0	3.35
4SH-51	51	2	32	50.4	52.0	62.2	64.2	66.5	69.7	25.0	3630	100.0	700.0	4.5

HYDRAULIC HOSE



EN857 1SC

COMPACT, ONE LAYER STEEL WIRE REINFORCED HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile rubber

REINFORCEMENT: one layer of high-tensile steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface, smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D		O.D	Max W.P		Min B.P	Min B.R	W.T
				(mm)		(mm)		(mm)					
	mm	inches	Dash	Min	Max	Min	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
1SC-06	6.3	1/4	04	6.1	6.9	9.6	10.8	13.5	22.5	3260.0	90.0	75.0	0.17
1SC-08	8	5/16	05	7.7	8.5	10.9	12.1	14.5	21.5	3120.0	86.0	85.0	0.22
1SC-10	10	3/8	06	9.3	10.1	12.7	14.5	16.9	18.0	2610.0	72.0	90.0	0.28
1SC-13	12.5	1/2	08	12.3	13.5	15.9	18.1	20.4	16.0	2320.0	64.0	130.0	0.38
1SC-16	16	5/8	10	15.5	16.7	19.8	21.0	23.0	13.0	1890.0	52.0	150.0	0.46
1SC-19	19	3/4	12	18.6	19.8	23.2	24.4	26.7	10.5	1520.0	42.0	180.0	0.57
1SC-25	25	1	16	25.0	26.4	30.7	31.9	34.9	8.8	1280.0	35.2	230.0	0.85

EN 857 2SC

COMPACT, TWO LAYERS STEEL WIRE REINFORCED, HYDRAULIC HOSE

INNER TUBE: oil resistant synthetic nitrile-butadiene rubber

REINFORCEMENT: two layers of high-tensile steel wire braided

COVER: oil and weather resistant synthetic rubber

APPLICATION: petroleum base and water base hydraulic fluids

SURFACE: wrapped surface , smooth surface

TEMPERATURE RANGE: -40°C (-104 °F) to +100°C (+212 °F)



Item Code	Metric Size	Inch Size	SAE Dash Size	I.D		W.D		O.D	Max W.P		Min B.P	Min B.R	W.T
				(mm)		(mm)		(mm)					
	mm	inches	Dash	Min	Max	Min	Max	Max	Mpa	Psi	Mpa	mm	Kg/m
2SC-06	6.3	1/4	04	6.1	6.9	10.6	11.7	14.2	40.0	5800	160.0	75.0	0.27
2SC-08	8	5/16	05	7.7	8.5	12.1	13.3	16.0	35.0	5080	140.0	85.0	0.33
2SC-10	10	3/8	06	9.3	10.1	14.4	15.6	18.3	33.0	4790	132.0	90.0	0.43
2SC-13	12.5	1/2	08	12.3	13.5	17.5	19.1	21.5	27.5	3990	110.0	130.0	0.57
2SC-16	16	5/8	10	15.5	16.7	20.5	22.3	24.7	25.0	3630	100.0	170.0	0.69
2SC-19	19	3/4	12	18.6	19.8	24.6	26.4	28.6	21.5	3120	86.0	200.0	0.88
2SC-25	25	1	16	25.0	26.4	32.5	34.3	36.6	16.5	2390	66.0	250.0	1.27

WATERBLAST HOSE

Construction:

Tube: Oil resistant, synthetic rubber

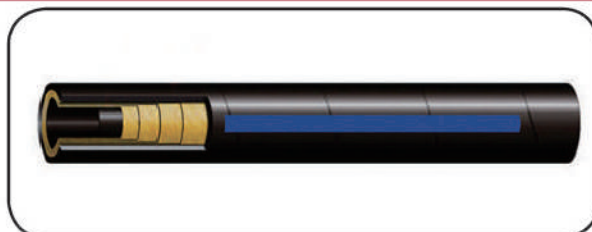
Reinforcement: Multiple spiral technology

Cover: Oil and weather resistant synthetic rubber

Temperature: -40°F to +212°F, Intermittent use up to 250°F

Application: Water blasting market

Characteristic: Higher strength steel wire, special process



Item code	I.D.		O.D.	W.P.	B.P.	R	kg
	inch	mm	mm	MPa	MPa	mm	kg/m
WBH62	1/4	6.2	14.7	84	210	130	0.25
WBH98	3/8	9.8	18.7	74	184	150	0.36
WBH13	1/2	13	24.4	88	220	200	1.02
WBH19	3/4	19	34	84	210	300	1.9

RUBBER TANK CLEANING HOSE

Construction:

Tube: EPDM rubber black smooth

Reinforcement: High strength synthetic plies and two stainless stranded static wires trailing of each end

Cover: EPDM rubber black, weather and ageing resistant

Temperature: -30 deg °C to 90 deg °C

Applications:

Cleaning of tanks/tankers with hot watermixed with steam and chemical additives

Working Pressure: 20bar

Bursting: 60bar



Item code	I.D.		O.D.		W.P.	Item code	I.D.		O.D.		W.P.
	inch	mm	inch	mm	psi		inch	mm	inch	mm	psi
A-215-1002	1"	25.4	1.364	34.6	300	A-215-2502	2 1/2"	63.5	3.028	76.9	300
A-215-1502	1 1/2"	38.1	1.96	49.8	300	A-215-3002	3"	76.2	3.552	90.2	300
A-215-2002	2"	50.8	2.512	63.8	300						

SEWER FLUSHING HOSE 250BAR

Construction:

Tube: SBR, black, smooth.

Reinforcement: Textile braided.

Cover: NR/BR, black, smooth, highly abrasion resistant, weather resistant.

Application:

The sewer flushing hose suited for sewer cleaning vehicles, for flushing drains

and sewers in industry, commerce and infrastructure.

Characteristic:

Very cost effective due to its highly abrasion and weather resistant cover. The smooth cover provides a low friction coefficient and is easily cleaned.

Temperature: -35°C to +80°C



Item code	 I.D		 O.D	 W.P		 B.P		 R	 kg
	inch	mm	mm	bar	psi	bar	psi	MM	kg/m
SFH-12	1/2	13	25	250	3750	625	9375	70	0.46
SFH-19	3/4	19	31	250	3750	625	9375	95	0.61
SFH-25	1	25	39	250	3750	625	9375	110	0.86
SFH-32	1 1/4	32	48	250	3750	625	9375	150	1.27

ULTRA HIGH PRESSURE HOSE

Application in the industry

Waterjet cutting, cleaning of tubes and heat-exchangers, removing paint and dirt from reservoirs, containers, ships etc. industrial cleaning, checking the pressure of injection in Diesel engines.

Application in the hydraulics

Hydraulic tensioners, testing devices

Advantages

High compatibility of multispiral thermoplastic hoses with fittings and ferrules of our own production. High resistance to chemicals and against abrasion



ULTRA HIGH PRESSURE HOSE SSB201

INNER TUBE: Polyamide **REINFORCEMENT:** Two spiral layers and one layer high tensile steel wire braiding

OUT COVER: Pin pricked anti-abrasion polyurethane

Item Code	I.D		O.D	W.P			B.P			Min bending radius	Weight
	inch	mm	mm	MPa	bar	psi	MPa	bar	psi	mm	kg/m
SSB2016	1/4	6	13.2	110	1100	15950	280	2800	40600	70	0.23
SSB2018	5/16	8	14.5	100	100	14500	250	2500	36250	90	0.31
SSB20197	3/8	9.7	18	80	800	11600	200	2000	29000	120	0.43
SSB20112	1/2	12.7	21	70	700	10150	175	1750	25375	150	0.6

ULTRA HIGH PRESSURE HOSE SSB401

INNER TUBE: Polyamide **REINFORCEMENT:** Four spiral layers and two layers of high tensile steel wire braiding

OUT COVER: Pin pricked anti-abrasion polyurethane

Item Code	I.D		O.D	W.P			B.P			Min bending radius	Weight
	inch	mm	mm	MPa	bar	psi	MPa	bar	psi	mm	kg/m
SSB4016	1/4	6	15	160	1600	23200	400	4000	58000	80	0.43
SSB4018	5/16	8	17	150	1500	21750	375	3750	54375	90	0.55
SSB40197	3/8	9.7	20	140	1400	20300	350	3500	50750	100	0.89
SSB40112	1/2	12.7	24	130	1300	18850	325	3250	47125	110	1.2

ULTRA HIGH PRESSURE HOSE SS200

INNER TUBE: Polyoxymethylene **REINFORCEMENT:** Two spiral layers of high tensile steel wire **OUT COVER:** Polyamide

Item Code	I.D		O.D	W.P			B.P			Min bending radius	Weight
	inch	mm	mm	MPa	bar	psi	MPa	bar	psi	mm	kg/m
SS2006	1/8	3.2	7	100	1000	14500	250	2500	36250	60	0.07
SS2008	5/32	4	8.2	110	1100	15950	275	2750	39875	75	0.11
SS20097	3/16	5	10	100	1000	14500	250	2500	36250	95	0.12
SS20012	1/4	6.3	11.8	100	1000	14500	250	2500	36250	110	0.21
SS20013	5/16	8	13.5	90	900	13050	225	2250	32625	120	0.26

ULTRA HIGH PRESSURE HOSE SS400

INNER TUBE: DN 3-8: Polyoxymethylene DN 10-25: Polyamide ie fibers

REINFORCEMENT: Four spiral layers of high tensile steel wire **OUT COVER:** Polyamide

Item Code	I.D		O.D	W.P			B.P			Min bending radius	Weight
	inch	mm	mm	MPa	bar	psi	MPa	bar	psi	mm	kg/m
SS4003	1/8	3	8.2	200	2000	29000	500	5000	72500	110	0.14
SS4004	5/32	4	10.5	200	2000	29000	500	5000	72500	130	0.24
SS4005	3/16	5	11.5	180	1800	26100	450	4500	65250	150	0.27
SS4006	1/4	6.3	12.6	150	1500	21750	375	3750	54375	180	3.3
SS4008	5/16	8	15	140	1400	20300	350	3500	50750	200	4.4
SS4009	3/8	9.7	19	130	1300	18850	325	3250	47125	200	710
SS40012	1/2	12.7	22	120	1200	17400	300	3000	43500	220	900
SS40019	3/4	19	29	100	1000	14500	250	2500	36250	260	1350
SS40025	1	25	37	90	900	13050	225	2250	32625	300	1900

SEWER JETTING HOSE

Construction:

Inner Core: Neutral color seamless polyamide tube

Reinforcement: one or Two braids of high tensile synthetic fiber

Cover: High abrasion, mold and fungus resistant polyether- urethane

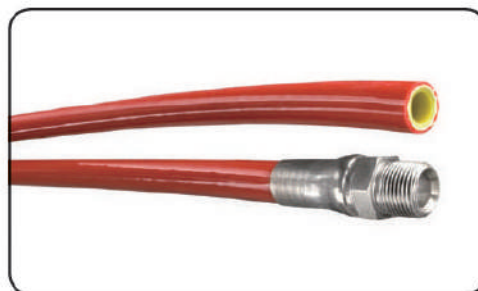
Application:

The sewer jetting hose is designed for use on high pressure sewer jetting equipment.

Temperature:

-40 degrees F. to +122 degrees F.

(-40 degrees C. to +50 degrees C.)



SEWER JETTING HOSE (GREEN) 4,000 PSI

Item code	I.D.		O.D.		W.P.		B.P.		Bend Radius	Max L
	Inch	mm.	Inch	mm.	Psi	Mpa	Psi	Mpa	Inch	M
SJH03-1	1/8	3.18	0.31	7.75	4000	27.6	10000	68.9	3/4	120
SJH05-1	3/16	4.76	0.41	10.29	4000	27.6	10000	68.9	1	120
SJH06-1	1/4	6.35	0.485	12.32	4000	27.6	10000	68.9	1-1/4	120
SJH10-1	3/8	9.53	0.72	18.29	4000	27.6	10000	68.9	2	120
SJH12-1	1/2	12.7	0.84	20.34	4000	27.6	10000	68.9	3	120
SJH16-1	5/8	15.87	1.03	26.16	4000	27.6	10000	68.9	4	120

SEWER JETTING HOSE (RED) 5,000 PSI

Item code	I.D.		O.D.		W.P.		B.P.		Bend Radius	Max L
	Inch	mm.	Inch	mm.	Psi	Mpa	Psi	Mpa	Inch	M
SJH05-2	3/16	4.8	0.41	10.29	5,000	34.5	12,500	86.2	1.7	120
SJH06-2	1/4	6.4	0.51	12.83	5,000	34.5	12,500	86.2	2	120
SJH10-2	3/8	9.53	0.65	16.51	5,000	34.5	12,500	86.2	2-1/2	120
SJH12-2	1/2	12.7	0.76	19.3	5,000	34.5	12,500	86.2	3	120

SEWER CLEANING HOSE

Construction:

Inner Core: Orange seamless polyolefin tube

Reinforcement: one or Two braids of high tensile synthetic fiber

Cover: High abrasion, mold and fungus resistant polyether- urethane

Application:

The sewer cleaning hose is designed for use on high pressure sewer cleaning equipment.

Temperature:

-40 degrees F. to +122 degrees F.

(-40 degrees C. to +50 degrees C.)



SEWER CLEANING HOSE (ORANGE) 2,500 PSI

Item code	I.D.		O.D.		W.P.		B.P.		Bend Radius	Max L
	Inch	mm.	Inch	mm.	Psi	Mpa	Psi	Mpa	Inch	M
SCH19-1	3/4	19.05	1.18	29.85	2500	17.2	6250	43.1	5	120
SCH25-1	1	25.4	1.43	36.32	2500	17.2	6250	43.1	6	120
SCH32-1	1-1/4	31.75	1.79	45.46	2500	17.2	6250	43.1	8	120

SEWER CLEANING HOSE (BLUE) 3,000 PSI

Item code	I.D.		O.D.		W.P.		B.P.		Bend Radius	Max L
	Inch	mm.	Inch	mm.	Psi	Mpa	Psi	Mpa	Inch	M
SCH19-2	3/4	19.05	1.18	29.85	3000	20.7	7500	51.7	5	120
SCH25-2	1	25.4	1.43	36.32	3000	20.7	7500	51.7	6	120
SCH32-2	1-1/4	31.75	1.77	44.96	3000	20.7	7500	51.7	8	120

OIL HOSE



OIL HOSE

DOCK OIL TRANSFER HOSE/BUNKERING HOSE



Construction:

Tube: Black, smooth, Nitrile synthetic rubber, suitable for up to 50% aromatic content

Reinforcement: Multiply heavy duty synthetic tire cord supported with helix wire, anti-static wires

Cover: Black, wrapped finish, synthetic rubber for high abrasion, ozone & weather resistance

Temperature:

-40°C to +100°C (+180°F)

Application:

Heavy duty suction and discharge dock hose designed for transferring petroleum product up to 50% aromatic content from tankers and barges, bunkering service and industrial applications.

Characteristic:

- C/W built-in flanges with one side fixed and one side swivel
- Heavy duty construction for 300psi
- Designed for petrol products up to 50% aromatic content
- High abrasion, ozone & weather resistant cover



Item	 I.D		 O.D	 W.P		 B.P		 L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
DOT076	3"	76.2	96	20	300	60	900	61	200
DOT100	4"	101.6	126	20	300	60	900	61	200
DOT125	5"	127	155	20	300	60	900	30.5	100
DOT150	6"	152.4	185	20	300	60	900	30.5	100
DOT200	8"	203.2	242	20	300	60	900	11.8	39
DOT250	10"	254	298	20	300	60	900	11.8	39

FLOATING MARINE OIL HOSE

**Construction:**

Tube: NBR compound synthetic rubber
 Reinforcement: high tensile strength fabric with helix wire, Independent foam
 Cover: CR synthetic rubber.

Application:

The floating marine oil hose is designed for transportation of crude oil and liquid petroleum products between loading and unloading vessels at offshore mooring systems.

Characteristic:

- Independent foam floating casing to prevent water absorption
- CR outlayer with excellent resistance to abrasion, UV, aging and corrosive environment.
- Easy installation and less maintenance
- Customized steel flanges are available

- rated working pressure: 21 bar
- minimum reserve buoyance: 20% or according to customer requirements
- electrical continuity: electrical continuous or discontinuous
- leak detection system: after the failure of the primary carcass, the detector will react to the leakage to remind the operator to remove the damaged hose to avoid economic loss and environmental pollution.

Standard:

The floating oil marine hoses are designed and produced in full accordance to OCIMF standard, the marine hoses are subjected to manufacturing and testing requirements dictated by ISO9000 quality standards

Temperature: -25°C to +82°C

Certification: OCIMF

Nominal Diameter (mm)	Outside Diameter (mm)		Weight in Air Empty (kg) / Weight in Air full of Sea Water(kg)			Minimum Bending Redius(m)
	D1	D2	9.1m (30FT)	10.7m (35FT)	12.2m (40FT)	
	Body	End				
150(6")	430	485	852	963	1067	0.9
			1021	1162	1294	
200(8")	515	575	1114	1259	1396	1.2
			1410	1607	1793	
250(10")	600	675	1476	1667	1847	1.5
			1931	2201	2456	
300(12")	670	745	1822	2059	2281	1.8
			2490	2844	3176	
400(16")	825	850	2542	2877	3191	2.4
			3628	4154	4647	
500(20")	965	1000	3273	3712	4124	3
			4996	5738	6434	
600(24")	1120	1165	4378	4979	5544	3.6
			6885	7927	8905	