Falcon
Hydraulics . Pneumatics

HYDRAULIC
HOSES CATALOG

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Hydraulics . Pneumatics

Hydraulic Hoses

Flexible hoses catalogue January 2024 edition
Falcon® reserves the right to change specification without notice

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HYDRAULIC HOSES

FALCON® is a multinational company that has been operating in the Gulf and African markets for over a decade. Our extensive experience in the industry enables us to offer hydraulic solutions in various sectors, including mining, construction and earthmoving equipment, forestry and agriculture, fishing, naval and ports, industry, and automotive.

At FALCON®, we use certified quality raw materials, standardized procedures with ISO 9001 certification, state-of-the-art production plants, a large team of specialized engineers in design and development, and strict quality policies validated in modern testing laboratories.

We offer a comprehensive portfolio of premium quality high-pressure hydraulic hoses and Fittings through a network of authorized distributors for various applications, including but not limited to industrial, agriculture, forest, energy, and construction. Sustainability is a fundamental aspect of our continuous improvement process, ensuring long-term results and strengthening our business performance and reputation.

Our primary strategy for international expansion is to establish a presence in countries where our primary clients operate, allowing for more efficient and timely product delivery. FALCON® rubber hydraulic hoses and Fittings are manufactured to meet or exceed DIN EN, SAE, ISO and other industry requirements using high-quality raw materials and advanced manufacturing plants.

The FALCON® team is dedicated to preventing defects or errors in manufactured products and ensuring problem-free delivery of solutions and services to customers. Quality assurance is applied to physical products during pre-production to verify that they meet FALCON®'s specifications and requirements, and during manufacturing production by validating lot samples through specified quality controls.

Thermoplastic Hoses **Rubber Hydraulic Hoses**
Industrial Hoses Hydraulic Quick release coupling
Hydraulic Hoses Fittings & Adapters
Hose Processing Machines **Hose Protection** **Pneumatic Tubes**
Pressure washer Hoses


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WORKING PRESSURE (BAR)

HOSE SIZE/ HOSE TYPE	1/8" (-2)	3/16" (-3)	1/4" (-4)	5/16" (-5)	3/8" (-6)	1/2" (-8)	5/8" (-10)	3/4" (-12)	7/8" (-16)	1" (-16)	1-1/8" (-20)	1-1/4" (-20)	1-3/8" (-24)	1 -1/2" (-24)	1- 13/16" (-32)	2" (-32)	2-3/8" (-40)	2-1/2" (-42)	3" (-48)	3-1/2" (-56)	4" (-64)
SAE 100 R1/1SN		250	225	215	180	160	130	105		88		63		50		40		50			
1SC			225	215	180	160	130	105		88											
SAE 100 R2/2SN		415	400	350	330	275	250	215		165		125		90		80		70			
2SC			400	350	330	275	250	215		165											
2ST		415	400	350	330	275	250	215		165		125		90		80					
1SN-PREMIUM			290	250	230	200	150	125		110		100									
2SN-PREMIUM			450	420	385	345	290	280		200		175									
SAE 100 R4								21		17		14		10	10	7		4	4	3	2
SAE 100 R6		35	28	28	28	28	24	21		20											
SAE 100 R16			400	350	330	275	250	215		165		125									
SAE 100 R17			210	210	210	210	210	210		210											
SAE 100 R5		210	210	157	140	122	105		56		43		35		24		24		14		
JACK ROSE			725		700	552															
PRESSURE WASHER HOSE I			250	250	250	250															
PRESSURE WASHER HOSE II			400	400	400	400															
WATER BLASTING HOSE			1000		850	800		720		700											
SEWER CLEANING HOSE						250		250		250		250									
4SH								420		380		325		290		250					
4SP			450		445	415	350	350		280		210		185		165					
SAE 100 R12					276	276	276	276		276		207		172		172					
SAE 100 R13								345		345		345		345		345					
SAE 100 R 15					420	420		420		420		420		420							
SAE 100 R7	250	260	220	200	190	170	150	120		70											
SAE 100 R8	630	350	350	300	280	245	200	165		140											

MINIMUM BENDING RADIUS (MM)

HOSE SIZE/ HOSE TYPE	1/8" (-2)	3/16" (-3)	1/4" (-4)	5/16" (-5)	3/8" (-6)	1/2" (-8)	5/8" (-10)	3/4" (-12)	7/8" (-16)	1" (-16)	1-1/8" (-20)	1-1/4" (-20)	1-3/8" (-24)	1 -1/2" (-24)	1- 13/16" (-32)	2" (-32)	2-3/8" (-40)	2-1/2" (-42)	3" (-48)	3-1/2" (-56)	4" (-64)
SAE 100 R1/1SN		90	100	115	125	180	200	240		300		420		500		630		760			
1SC			75	85	90	130	150	180		230											
SAE 100 R2/2SN		90	100	115	125	180	200	240		300		420		500		630		760			
2SC		90	100	115	125	180	200	240		300		420		500		630					
2ST			75	85	90	130	170	200		250											
1SN-PREMIUM			40	55	65	80	105	120		160		300									
2SN-PREMIUM			45	60	70	90	130	160		210		300									
SAE 100 R4								125		150		200		255	270	300		355	460	590	610
SAE 100 R6		50	65	75	75	100	125	150		150											
SAE 100 R16			50	55	65	90	100	120		150		210									
SAE 100 R17			50	55	65	90	100	120		150											
SAE 100 R5		75	85	100	115	140	165		185		230		265		335		610		840		
JACK ROSE			725		700	552															
PRESSURE WASHER HOSE I			100/75	115/85	130/90	180/130															
PRESSURE WASHER HOSE II			100/75	115/85	130/90	180/130															
WATER BLASTING HOSE			125		180	230		300		340											
SEWER CLEANING HOSE						70		90		100		130									
4SH								280		340		460		560		700					
4SP			125		180	230	250	300		340		460		560		660					
SAE 100 R12					127	178	200	240		300		420		500		630					
SAE 100 R13								240		300		420		500		630					
SAE 100 R 15					150	200		265		330		445		530							
SAE 100 R7	25	35	50	60	80	95	125	150		200											
SAE 100 R8	25	35	50	60	80	95	125	150		200											

Recommended Hose Size

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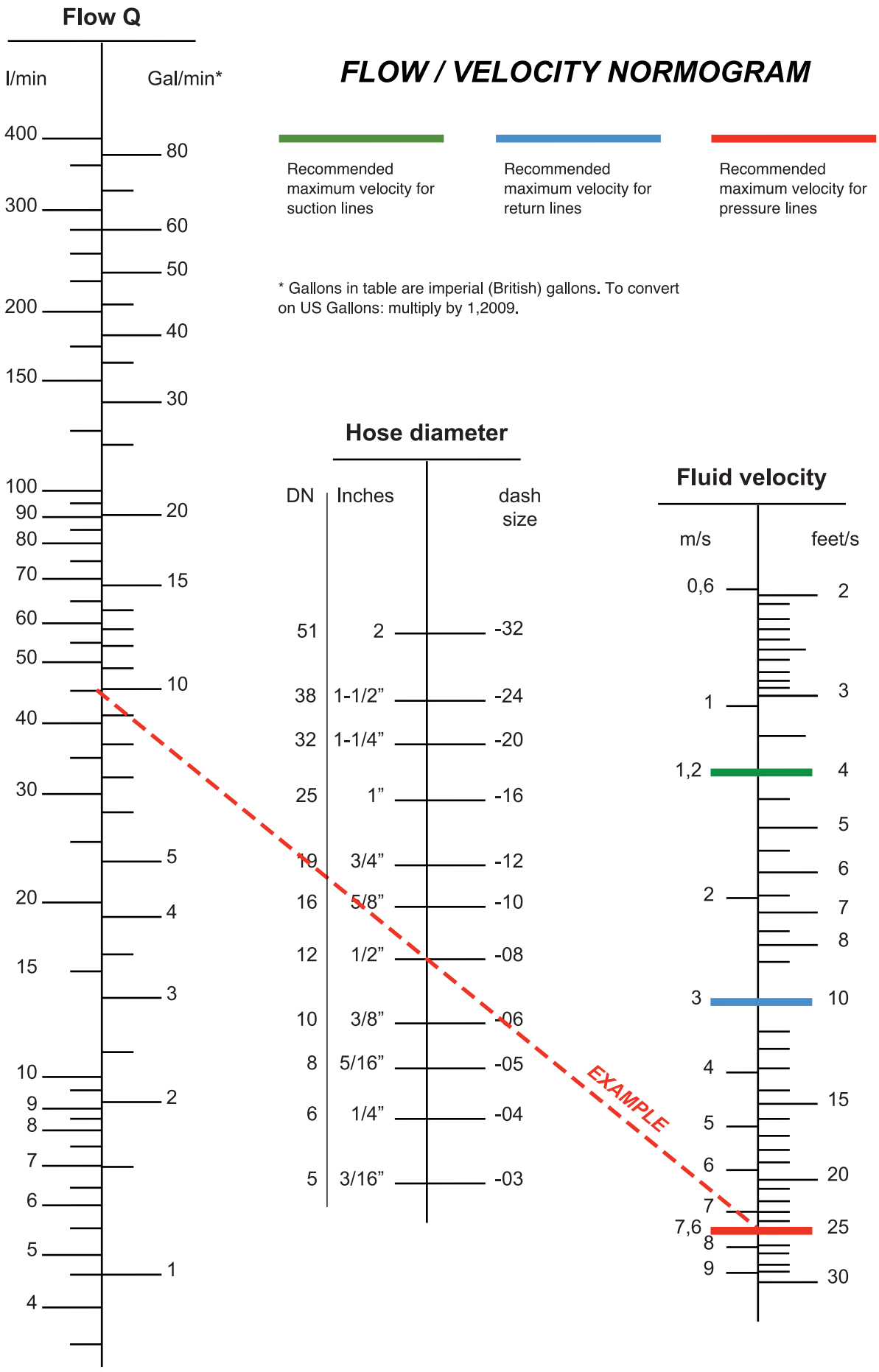


Size

Part N. / Norm

Max Working Pressure in BAR

Max Working Pressure in PSI

Temperature

Production date (Q/YY)

With the exception of the hose featuring a wire braided exterior, a single stripe runs parallel to the longitudinal axis, ensuring legible markings along the entire length. These comprehensive markings encompass vital information, such as the hose specification number, type designation (if applicable), metric hose size number, maximum working pressure, and the date of manufacture. This meticulous approach to marking ensures clarity and compliance with professional standards.

Fluid compatibility

FLUID	LEVEL	FLUID	LEVEL	FLUID	LEVEL
ACETIC ACID (30%)	LIMITED	ETHILENE GLYCOL	EXCELLENT	NITRIC ACID (CONC.)	INADEQUATE
ACETONE	INADEQUATE	ETHILENEOXIDE	INADEQUATE	NITRIC ACID (DIL.)	INADEQUATE
ACETYLENE	EXCELLENT	FLUORINE	INADEQUATE	NITROBENZEN	INADEQUATE
AMMONIA GAS (HOT)	LIMITED	FORMALDEHYDE	EXCELLENT	OIL OF TURPENTINE	INADEQUATE
AMMONIA LIQUID	EXCELLENT	FORMALDEHYDE (40%)	EXCELLENT	OLEIC ACID	INADEQUATE
AMYLACETATE	INADEQUATE	FUEL OIL	EXCELLENT	OXALIC ACID	INADEQUATE
ANILINE	INADEQUATE	GASEOUS HYDROGEN	LIMITED	PERCHLOROETHILENE	INADEQUATE
ANIMAL OILS	EXCELLENT	GASOLINE	LIMITED	PHENOL	INADEQUATE
BENZOL/BENZENE	INADEQUATE	GLYCERIN/GLYCEROL	EXCELLENT	PHOSPHATE ESTER BASE OIL	INADEQUATE
BUTANE	LIMITED	GLYCOL TO 66' C	EXCELLENT	PHOSPHORIC ACID (10%)	EXCELLENT
BUTYLACETATE	EXCELLENT	HEXANE	EXCELLENT	PHOSPHORIC ACID 70%	INADEQUATE
BUTYLACOHOL/BUTANOL	EXCELLENT	HYDRAULIC OIL	EXCELLENT	SATURATEDD STEAM	INADEQUATE
CARBON DIOXIDE	EXCELLENT	HYDROCHLORIC ACID 37%	INADEQUATE	SEA WATER	EXCELLENT
CARBON DISULFIDE	INADEQUATE	HYDR.PEROXIDE (CONC.)	LIMITED	SILICONE OILS	EXCELLENT
CARBONATES	LIMITED	HRDR.PEROXIDE (DIL.)	EXCELLENT	SOAP SOLUTIONS	LIMITED
CAUSTIC SODA	EXCELLENT	IRUS902 (water oil emulsion)	EXCELLENT	SODA	EXCELLENT
CHLORINATED SOLVENTS	INADEQUATE	ISOPROPILALCOHOL	EXCELLENT	SODIUM CHLORIDE SOLUTIONS	EXCELLENT
CHLORINE	INADEQUATE	KEROSENE	EXCELLENT	SODIUM IDROXIDE 20%	EXCELLENT
CHLOROFORM	INADEQUATE	LIQUID OXIGEN	INADEQUATE	SODIUM HYPOCHLORYDE 10 %	LIMITED
COMPRESSED AIR	EXCELLENT	LPG	LIMITED	SULPHUR	EXCELLENT
CRITIC ACID SOLUTION	EXCELLENT	LUBRIFICATING OILS	EXCELLENT	SULPHURE DIOXIDE	INADEQUATE
CRUDE PETROLIUM OIL	LIMITED	MERCURY	EXCELLENT	SULPHURIC ACID ABOVE 50 %	INADEQUATE
CYCLOEXANE	LIMITED	METHIL ALCOHOL/METHANOL	EXCELLENT	SULPHURIC PETROLIUM UPTO 50 %	INADEQUATE
DIESEL FUEL	LIMITED	METHIL CHLORIDE (COOL)	INADEQUATE	TOLUENE	INADEQUATE
ETHERS	LIMITED	METHIL ETHIL KETHONE	INADEQUATE	TRICHLOROETHYLENE	INADEQUATE
ETHILACETATE	INADEQUATE	MINERAL OILS	EXCELLENT	VEGETABLE GREASES	EXCELLENT
ETHILALCOHOL	EXCELLENT	NAPHTHA	EXCELLENT	WATER	EXCELLENT
ETHIL CELLULOSE	EXCELLENT	NAPHTHALENE	INADEQUATE	XYLENE	INADEQUATE
ETHIL CHLORIDE	INADEQUATE	NATURAL GAS	EXCELLENT		

EXCELLENT: Excellent chemical resistance, with minimum or no properties changement,
LIMITED: Limited chemical resistance, with moderately acceptable properties changements,
INADEQUATE: Inadequate resistance, with drastic collapse of all the characteristics,

The chart is intended as a guide only and is not a quarantee, Final selection of the proper material of a components is further dependent on many factors including pressure, temperature, fluid concentration, duration of exposure etc. Contact the HRW technical office for a case study.

Warning

ATTENTION TO ALL DISTRIBUTORS AND CUSTOMERS

THE FALCON® hoses andarefittings **designed as integral parts of hose assembly system to be used together** a nd they should only be use d t oge ther or in conjunction with other types of fittings for FALCON®

Failures to do so may result in reducing the hose assembly life or other failures which can result in serious bodily injury or property damage.

Product selection,product installation and hose integration guide lines are essential to the proper operation and safe use of FALCON® hoses, fittings,hose assemblies and related equipments.

Improper installation of the hoses, fittings and hose assemblies can result in serious injury or property damage.

The main international standards ISO 17165-2 and SAE J1273 strictly warn not to mix hose with fittings from different manufacturers without their approval.

Before using any product, it is important that **you analyze all aspects of your application and review the information explained in the current catalogue.**
FALCON® shall not be responsible for any default other than hose, fittings, or hose assembly we supply.

FALCON® does not represent or warrant any default taken place due to the improper use of hose, fittings or hose assembly. [EX] Hard piping layout,crimping,using inadequate liquid for hose, and so on.

FALCON® reserves the right to modify any data. Eventual and any kind of modifications can be carried out without any notice.

For more details on the hose shown in this catalog and their application,please be advised to contact your FALCON® customer service listed above.

Precaution

Safety instruction : Please be advised to read these safety instruction before use carefully.

1, Warning ※This symbol indicates failure to comply with the indication may cause personal death or injury.

-1 **Do not kink the hose.**
Kink the hose causes burst and do not use kinked hose.

-2 **Avoid applications where the hose assembly is twisted or pulled.**
Twisting or stretching hose under pressure causes stress concentration of hose or fitting which leads to hose bursting or fitting blow-off.

-3 **Protect hose from abrasions.**
If the hose reinforcement is exposed, it causes rust and accelerated damage which leads to hose burst.

-4 **Do not touch hose assembly and fittings under pressure.**
If hose or fittings are burst or broken, and a fluid touch the skins, a serious injury including burns may be caused.

-5 **Do not repair or rework a hose assembly.**
Repair or rework does not have the same physical characteristics shown in this catalogue, and leading to hose burst or fitting blow-off.

-6 **System pressure should not exceed the rated working pressure of the hose assembly.**
Exceeding the rated pressure of hose causes the hose bursting or fitting blow-off.

-7 **Avoid the usage exceeding applicable temperature.**
The usage exceeding fluid/ambient temperature cause the hose bursting or fitting blow-off.

-8 **Use compatible hydraulic fluid specified on this catalogue.**
The use of an incompatible hydraulic fluid will deteriorate inner tube rubber or thermoplastic and the reinforcement (wire or yarn) resulting in the hose bursting or fitting blow-off.

-9 **Avoid the usage exceeding the minimum bending radius.**
The usage of exceeding the minimum bending radius causes the hose burst.

-10 **The usages that our products are not intended for.**
- Avoid vacuum pressure and external pressure which lead to hose burst or a serious injury.
- Excessive vacuum pressure or external pressure causes the inner tube peel-off or kink which leads to hose failure and reduce service life.
- Avoid submerging hose assemblies in water or high humid. Usage under these condition cause the outer cover peel-off and the rust of wire braded which leads to determination of strength.
- Do not apply an electrical current to a hose assembly. Electrifying a hose leads to a hose failure or an electric shock.
- Avoid excessive vibration. Excessive vibration causes fatigue which leads to leakage or burst.

-11 **Selection of hose assembly length.**
- Have an enough slack in the hose to allow for changes in length that occur when pressure is applied.
- No slacks in the hose length causes high tension which leads to hose burst or fitting blow-off.

2, Caution ※This symbol indicates failure to comply with the indication may cause personal injury or property damage.

-1 **Avoid sealing material going into the fitting or hose.**
Sealing material going into the fitting or hose causes clog or reducing fluid speed.

-2 **Prior to assembly, inspect the fitting and sealing surface for foreign object or any other visible objects.**
If any foreign objects on the fitting and sealing surface are not removed, it leads to leakage of fluid.

-3 **Tighten hose assemblies to the recommended torque shown in this catalogue.**
If tightening is improper, it cause leakage, joint portion breakage and separation.

-4 **Select proper hose assembly matching the opponent joint portion.**
The hose assembly using improper fittings will lead to leakage or hose fitting blow-off.

-5 **If the period of hose assembly usage exceeds 2 years, the hose assembly is recommended to replace a new one.**

-6 **When hose assembly stored over one month, rust proofing for metal of fitting is recommended.**
Rust covered fitting cause contamination of fluid leading to leakage.

-7 **Store hose and hose assembly in good condition.**
Store hose and hose assembly in dry room under the temperature of +40°C (+104°F).
Protect hose against direct sun light and humidity commendation. The usage under these condition lead to reduce service life or the rust of wire braded.

-8 **Avoid damage or deform of hose and hose fitting.**
Keep hose in stress free shape never bent below the min. bend radius.
Do not heavy stuff on hose assembly leading to burst or breakage.

-9 **Keep clean the inside of hose assembly.**
Hose assemblies fittings should be capped against damage and contamination. If not, it lead to trouble of fluid for hydraulic circuits.

-10 **Storage period of hose should not exceed one year.**
Hose stored in good shape does not stop deterioration of its original characteristic. If not, it lead to deterioration of hose.

3, Items related to visual inspection of hose and hose fitting recommended by ISO 17165-2.

Hose and hose fittings shall be inspected for the items below listed, which also gives information as to the main causes and corrective action to be taken for each item.

Failure Symptom		Main cause	Corrective action
Leakage from threaded connector		Defective connector seat due to presence of flaw, dirt or other foreign objects	Clean connector seat
		Loose connector or O-ring wear	Tighten the connector or replace O-ring
		Mismatching of seat surface	Replace the connector as necessary
Leakage from flange connection		Loose fixture bolt or deterioration of O-rings or other seals	Tighten the bolt or replace O-rings or other seals
Leakage from hose / connection assembly, hose fitting slippage hose		Deterioration of hose (due to heat, oil,long use, etc.)	Replace the hose
		Improper routing	Avoid sharp bending at the assembly part
Deformation	**Kink or dent**	External impact	Prevent or protect from impact
	Swell or bulge	Oil spillage (leak)	Replace the hose
Visible defects (damaged, cut or abraded cover, exposed reinforcement; kinked, crushed, lattened, or twisted hose; blistered, soft, degraded, or loose cover;cracked,damaged,or badly corroded hose fitting; wear flaws; scratch etc.)		Component interference / Eternal impact	Prevent or protect from impact / Replace the hose
Visible external cracks		Ozone, radiation, paint other fluids	Protect the exterior / Replace the hose
Unusual hose movement at starting of operation		Improper hose length Improper hose routing	Replace the hose Correct routing or use adaptive devices
Hardening / softening, heat cracked, or Charred hose		Deterioration due to fluid or temperature mismatch	Replace the hose as necessary
Unusual noise, odor, heat		Improper circuitry	Check the circuit
Rusting of joints		Sand dust, water, air salinity	Use protective paint (but not on the exterior surface of the hose)

2-1 How to calculate the Assembly Length

• **End to End** of both fittings

Case 1)

Case 2)

Case 3)

Case 4)

2-2 Hose Protective Materials

1) 1012 Spring

Use to protect too small bending at end of fitting.

← Length →

Hose Length		L (mm)	Hose Length		L (mm)	Hose Length		L (mm)
mm	Dash		mm	Dash		mm	Dash	
6	-04	200	15	-10	300	32	-20	300
9	-06	200	19	-12	300	38	-24	350
12	-08	200	25	-16	300	50	-32	350

2) Spring Guard (SP)

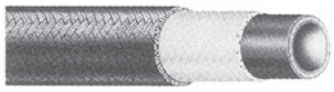
Use to protect whole hose length from stones or striking objects.

3) Wire Braid (WB)

Use to protect whole hose length from metal cutting powder or sharp chips.

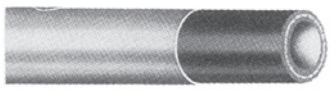
4) Grass Wool Wire Braid (1G-1W)

Use Grass Wool wire braid at high ambient temperature to protect hose from the heat.



5) Vinyl Cover

Use Vinyl Cover to protect hose from abrasion or damage.



6) Plastic protective coil sleeve

Use to protect hose from abraision.

How to determine correct assembly length

For most assemblies, the correct assembly length may be determined by direct measurement of the equipment or by drawing. The recommended minimum. bend radius must be observed. The correct hose length can be determined by the formula given below. Please consult our customer service if you have any question.

[L] = the overall length of the hydraulic hose assembly

[A]= an allowance for a min.straight section of hydraulic hose at each end of the assembly measured from the inner end of each fitting. These two straight sections are necessary to prevent excessive stress concentration directly back of the fitting. See table below.

[B] = the length of fitting

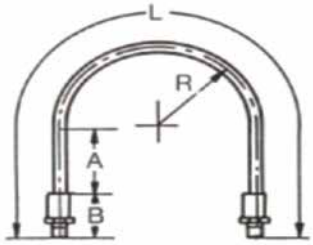
[R] = the bend radius of hose. See each hose specification table.

[T] = the length of travel

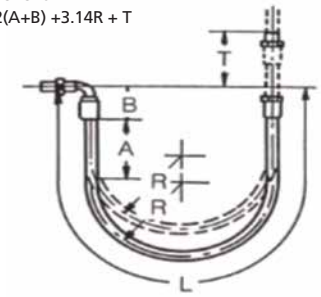
Dimension table

Hose I.D.	inch	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2
	(mm)	(5)	(6)	(8)	(9)	(12)	(15)	(19)	(25)	(32)	(38)	(50)
	(dash)	(-03)	(-04)	(-05)	(-06)	(-08)	(-10)	(-12)	(-16)	(-20)	(-24)	(-32)
A	inch	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	2-1/2	2-3/4	3-1/4	4	4-3/4	5-1/2
	(mm)	(30)	(30)	(40)	(40)	(40)	(60)	(70)	(80)	(100)	(120)	(140)
	(dash)	(-03)	(-04)	(-05)	(-06)	(-08)	(-10)	(-12)	(-16)	(-20)	(-24)	(-32)

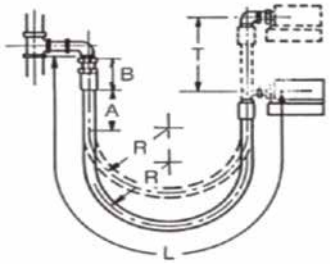
1
When both ends of assemblies are fixed.
L=2(A+B) +3.14R



2
When one end of assemblies moves parallel to the other end.
L=2(A+B) +3.14R + T

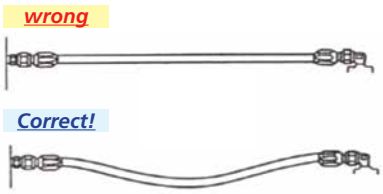


3
When one end of assemblies moves to parallel and symmetrical to the other end of assemblies.
L=2(A+B) + 3.14R + 1/2T

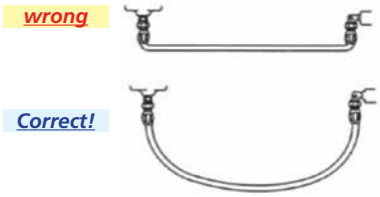


Correct assembly installation

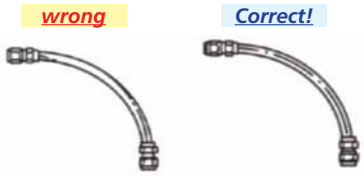
1,
Under pressure, hose may change in length from-4% to +2%(or 4%). So always provide sufficient slack in hose to allow for shrinkage or expansion.



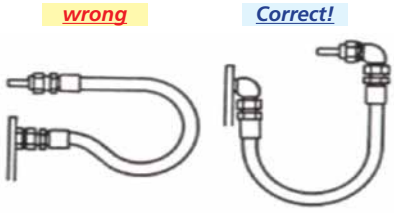
2,
Do not use hose at bend radius less than the required min. bend radius. Provide sufficient length for a wide radius curve. To tight a bend pinches the hose and restricts the flow.



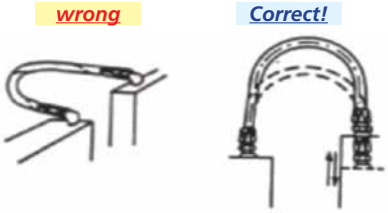
3,
Do not install hose with a twist in tends to be straightened under high operation pressure. This causes loosen of fitting out or even burst of hose at the point of strain.



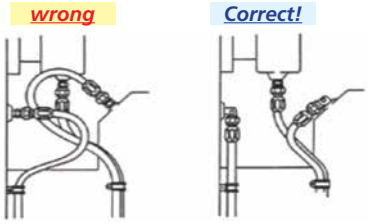
4,
Where the radius falls below the required min. bend radius, an angle adapter must be used as below to avoid sharp bends in hose.



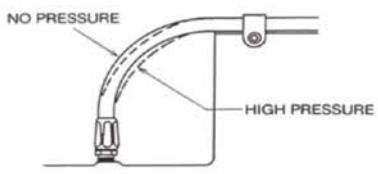
5,
Hose must be bent in the same plane as the motion of the boss to which the hose is connected.



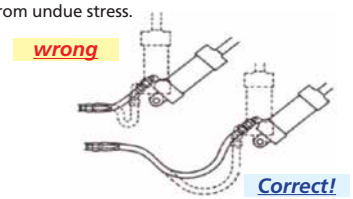
6,
Obtain direct routing of hose through use of 45°and 90°adapters and fittings. Make appearance neater by avoiding excess hose length.



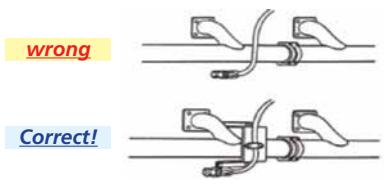
7,
If hose is installed in bent position,curves absorb changes according to change in hose length under pressure.So do not clamp at bend.



8,
In applications where there is considerable vibration or flexing, provide sufficient hose length to avoid hose bend radius smaller than the recommended min. amount. Also proper installation protects metal parts from undue stress.



9,
Service life of hose becomes short if subjected to abnormally high temperature. Use heat resistant boots, fire sleeves or metal baffles when hose lines pass near heat source. In any application, brackets and cramps keep hose in place and reduce abrasion.



Falcon
Hydraulics . Pneumatics

DATA SHEET

EN853 1SN/SAE100 R1AT

MAIN APPLICATION:	Low-medium pressure lines,including mobile,machine tool and agricultural application (ie. Tractor),using petroleum orwater-based hydraulic fluids
APPLICABLE SPECS:	EN853 1SN- SAE 100 R1AT-ISO 1436 1SN/R1AT
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	One high tensile steel braid
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance. Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C) - 1SN AGRO (designed specifically for agricultural machinery)

I.D			R.O.D		O.D		MAX W.P		MAX B.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-3	5	3/16"	9.5	0.37	11.5	0.45	250	3620	1000	14500	90	0.19
-4	6	1/4"	11.2	0.44	13.2	0.52	225	3260	900	13050	100	0.23
-5	8	5/16"	12.8	0.50	14.8	0.58	215	3110	850	12320	115	0.27
-6	10	3/8"	15.1	0.59	17.1	0.67	180	2610	720	10440	125	0.34
-8	12	1/2"	18.1	0.71	20.1	0.79	160	2320	640	9280	180	0.42
-10	16	5/8"	21.3	0.84	23.3	0.92	130	1880	520	7540	200	0.51
-12	19	3/4"	25.3	1.00	27.3	1.07	105	1520	420	6090	240	0.63
-16	25	1"	33.1	1.30	35.1	1.38	88	1270	350	5070	300	0.95
-20	31	1 1/4"	40.6	1.60	43.3	1.70	63	910	250	3620	420	1.3
-24	38	1 1/2"	47.0	1.85	49.7	1.96	50	720	200	2900	500	1.6
-32	51	2"	60.4	2.38	63.1	2.48	40	580	160	2320	630	2.2
-40	64	2 1/2"	72.2	2.84	74.9	3.03	50	720	200	2900	760	2.7

*Available in both smooth and wrap cover

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DATA SHEET

EN857 1SC

MAIN APPLICATION:	Hose has compact dimensions and tighter bend radius in machinery application. Low-medium pressure lines with installation constraints, pilot lines, return lines.
APPLICABLE SPECS:	EN 857 1SC and ISO 11237 1SC
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	One high tensile steel braid
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4"	10.2	0.4	12.0	0.47	225	3260	900	13050	75	0.18
-5	8	5/16"	11.5	0.45	13.6	0.54	215	3120	860	12470	85	0.21
-6	10	3/8"	13.6	0.54	15.5	0.61	180	2610	720	10440	90	0.26
-8	12	1/2"	17.3	0.68	19.1	0.75	160	2320	640	9280	130	0.34
-10	16	5/8"	20.6	0.81	22.4	0.88	130	1885	520	7540	150	0.44
-12	19	3/4"	23.9	0.94	25.9	1.02	105	1520	420	6090	180	0.54
-16	25	1"	31.3	1.23	33.1	1.3	88	1280	355	5100	230	0.77

*Available in both smooth and wrap cover

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DATA SHEET

EN853 2SN/SAE100 R2AT

MAIN APPLICATION:	Medium-high pressure lines,including construction, machine tool and agricultural application,using petroleum or water-based hydraulic fluids.
APPLICABLE SPECS:	EN 853 2SN - SAE 100 R2AT - ISO 1436-1 2SN
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	Two high tensile steel braid
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance. Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C) - 2SN AGRO (designed specifically for agricultural machinery)

I.D			R.O.D		O.D		MAX W.P		MAX B.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-3	5	3/16"	11.3	0.44	13.3	0.52	415	6010	1650	23920	90	0.27
-4	6	1/4"	12.1	0.50	14.7	0.58	400	5800	1600	23200	100	0.34
-5	8	5/16"	13.7	0.56	16.3	0.64	350	5070	1400	20300	115	0.39
-6	10	3/8"	16.6	0.66	18.7	0.74	330	4780	1320	19140	125	0.49
-8	12	1/2"	19.7	0.78	21.8	0.86	275	3980	1100	15950	180	0.58
-10	16	5/8"	22.6	0.91	25.0	0.98	250	3620	1000	14500	205	0.71
-12	19	3/4"	26.5	1.06	29.0	1.14	215	3110	860	12470	240	0.89
-16	25	1"	34.1	1.37	36.8	1.45	165	2390	660	9570	300	1.37
-20	31	1 1/4"	44.3	1.74	47.0	1.85	125	1810	500	7250	420	2.27
-24	38	1 1/2"	50.7	2.00	53.4	2.10	90	1300	360	5220	500	2.44
-32	51	2"	63.5	2.50	66.2	2.61	80	1160	320	4640	630	2.7
-40	64	2 1/2"	75.2	2.96	79.8	3.14	70	1015	280	4060	760	3.47

*Available in both smooth and wrap cover

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DATA SHEET

EN857 2SC

MAIN APPLICATION:	High-pressure service with tight bends for petroleum and water based hydraulic fluids, with excellent impulse performance.Hose has compact dimensions and tighter bend radius than 2SN hose for easy of assembly routing in machinery applications.
APPLICABLE SPECS:	EN 857 2SC - ISO 11237-1 2SC- SAE 100 R16S
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	Two high tensile steel braid
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance. Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MAX B.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4"	11.3	0.44	13.1	0.52	400	5800	1600	23200	75	0.28
-5	8	5/16"	12.9	0.51	14.7	0.58	350	5070	1400	20300	85	0.33
-6	10	3/8"	15.0	0.59	16.8	0.66	330	4780	1320	19140	90	0.39
-8	12	1/2"	18.5	0.73	20.3	0.80	275	3980	1100	15950	130	0.50
-10	16	5/8"	21.8	0.86	23.6	0.93	250	3620	1000	14500	170	0.62
-12	19	3/4"	25.6	1.01	27.6	1.09	215	3110	860	12470	200	0.79
-16	25	1"	33.0	1.30	35.2	1.39	165	2390	660	9570	250	1.18

*Available in both smooth and wrap cover

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DATA SHEET

FALCON ALPHA

MAIN APPLICATION:	High Pressure hydraulic oil-based and water-based hydraulic systems with small bending radius. Excellent pluse and bending performance exceeding the reqirements of EXCEED SAE 100 R 16 Standard. The hose has a more compact size and smaller bending radius and has better performace in mechanical configuration.
APPLICABLE SPECS:	EXCEED SAE 100 R 16
TEMPERATURE RANGE:	-40^{0}F to 212^{0}F (-40^{0}C to 100^{0}C)
INNER TUBE:	Nitrile
REINFORCEMENT:	Two braids of high tensile steel wire
COVER:	Black Neoprene Blend

PRODUCT NUMBER	HOSE SIZE		NORMAL HOSE ID	NORMAL HOSE OD	MAX W.P		MAX B.P		MIN B.R	WEIGHT
HOSE	INCH	DASH	MM	MM	MPA	PSI	MPA	PSI	MM	KG / M
2SNK-06	1/4	-4	6.6	13.2	45.0	6525	180	26100	45	0.30
2SNK-08	5/16	-5	8.2	15.1	42.0	6090	168	24360	60	0.36
2SNK-10	3/8	-6	9.9	17.0	38.5	5585	154	22330	70	0.41
2SNK-12	1/2	-8	13.2	20.5	34.5	5000	138	20010	90	0.56
2SNK-16	5/8	-10	16.3	24.2	29.0	4205	116	16820	130	0.73
2SNK-19	3/4	-12	19.5	28.2	28.0	4060	112	16240	160	0.94
2SNK-25	1	-16	25.8	35.6	20.0	2900	80	11600	210	1.28
2SNK-32	1-1/4	-20	32.5	43.5	17.5	2540	70	10150	300	1.71

Impulse tested over 500,000 cycles *Available in both smooth and wrap cover

* More durable than standard 2 wire hoses. Higher abrasion resistance (2000x), impulse cycles (500,000), and pressure capability. Compact design saves installation space. Perfect for high-pressure, high-abrasion applications.

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DATA SHEET

SAE 100 R17

MAIN APPLICATION:	High-pressure hydraulic application,where higher pressure and a more flexible hose is required.
APPLICABLE SPECS:	SAE 100 R17 - ISO 11237 R17
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	One high tensile steel braids (DN6~12), Two high tensile steel braids (DN16~25).
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
OPTIONAL FEATURES:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT	CONSTR
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M	
-4	6	1/4"	10.4	0.41	12.2	0.48	210	3045	840	12180	50	0.19	1B
-5	8	5/16"	11.5	0.45	13.6	0.54	210	3045	840	12180	55	0.22	
-6	10	3/8"	13.6	0.54	16.2	0.64	210	3045	840	12180	65	0.27	
-8	12	1/2"	16.8	0.66	19.2	0.76	210	3045	840	12180	90	0.46	
-10	16	5/8"	21.7	0.85	23.8	0.94	210	3045	840	12180	100	0.57	2B
-12	19	3/4"	25.6	1.01	27.7	1.09	210	3045	840	12180	120	0.78	
-16	25	1"	33.3	1.31	36.0	1.42	210	3045	840	12180	150	1.35	

*Available in both smooth and wrap cover

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DATA SHEET

JACK HOSE

MAIN APPLICATION:	Very High Pressure Hydraulic Lines 520 to 700 bar.Compact, high Pressure, light weight,high abrasion resistance and low change in length for use with petroleum, synthetic or water based fluids in Hydraulic Systems mainly used for rescue saftey equipments, boly tensioningtools and jacking&re-calling equipments. Also, suitable for earthmoving and material handling equipments.
APPLICABLE SPECS:	SAE 100R2 AT / ISO 1436-1 TYPE 2SN / EN 853 TYPE 2 SN / 1J100, NFPA 1936
TEMPERATURE RANGE:	-40°F /+212°F -40°C / +100 °C
INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Two high tensile steel braids
COVER:	Smooth synthetic rubber with high abrasion, ozone and weather resistance. (rubber color and surface finish can be customized as per customer's request)

I.D			O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4"	15.0	0.59	725	10500	1450	21000	100	0.39
-6	10	3/8"	19.0	0.75	700	10000	1400	20000	125	0.55
-8	12	1/2"	22.2	0.87	552	8000	1104	16000	178	0.65

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DATA SHEET

PRESSURE WASHER HOSE I

MAIN APPLICATION:	For medium pressure cleaning applications with hot water.
TEMPERATURE RANGE:	-40°F / +248°F -40°C / +120°C Intermittent 150°C for pressure washer only
INNER TUBE:	Synthetic Rubber
REINFORCEMENT:	One high tensile steel braid
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C) - Fire resistant (MSHA approval)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4"	11.2	0.44	13.2	0.52	250	3625	1000	14500	100	0.23
-5	8	5/16"	12.8	0.5	14.8	0.58	250	3625	1000	14500	115	0.27
-6	10	3/8"	15.1	0.59	17.1	0.67	250	3625	1000	14500	130	0.34
-8	12	1/2"	18.1	0.71	20.1	0.79	250	3625	1000	14500	180	0.42
MORE FLEXIBLE APPLICATION												
-4	6	1/4"	10.2	0.4	12.0	0.47	250	3625	1000	14500	75	0.18
-5	8	5/16"	11.5	0.45	13.6	0.54	250	3625	1000	14500	85	0.21
-6	10	3/8"	13.6	0.54	15.5	0.61	250	3625	1000	14500	90	0.26
-8	12	1/2"	17.3	0.68	19.1	0.75	250	3625	1000	14500	130	0.34

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DATA SHEET

PRESSURE WASHER HOSE II

MAIN APPLICATION:	For high pressure cleaning applications with hot water.
TEMPERATURE RANGE:	-40°F / +248°F -40°C / +120°C Intemittent 150°C for pressure washer only
INNER TUBE:	Synthetic Rubber
REINFORCEMENT:	Two high tensile textile braid.
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C) - Fire resistant (MSHA approval)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4"	12.7	0.5	14.7	0.58	400	5800	1600	23200	100	0.34
-5	8	5/16"	14.3	0.56	16.3	0.64	400	5800	1600	23200	115	0.39
-6	10	3/8"	16.7	0.66	18.7	0.74	400	5800	1600	23200	127	0.49
-8	12	1/2"	19.8	0.78	21.8	0.86	400	5800	1600	23200	180	0.59
MORE FLEXIBLE APPLICATION												
-4	6	1/4"	11.3	0.44	13.1	0.52	400	5800	1600	23200	75	0.28
-5	8	5/16"	12.9	0.51	14.7	0.58	400	5800	1600	23200	85	0.33
-6	10	3/8"	15.0	0.59	16.8	0.66	400	5800	1600	23200	90	0.39
-8	12	1/2"	18.5	0.73	20.3	0.8	400	5800	1600	23200	130	0.5

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DATA SHEET

WATER BLASTING HOSE

MAIN APPLICATION:	Very high pressure hose for water scaling and jetting system.
TEMPERATURE RANGE:	-40°F /+212°F -40°C / +100 °C
INNER TUBE:	Synthetic rubber.
REINFORCEMENT:	Four high tensile steel spiral.
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance. (rubber color and surface finish can be customized as per customer's request)
OPTIONAL FEATURES:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C) -Fire resistant (MSHA approval)

I.D			R.O.D		O.D		MAX W.P		MIN B.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4"	14.7	0.58	17.6	0.69	1000	14500	2500	36250	125	0.60
-6	10	3/8"	17.6	0.69	21.1	0.83	850	12325	2125	30813	180	0.78
-8	12	1/2"	20.3	0.80	24.3	0.96	800	11600	2000	29000	230	0.89
-12	19	3/4"	28.2	1.11	31.9	1.26	720	10440	1800	26100	300	1.59
-16	25	1"	35.0	1.38	39.0	1.54	700	10150	1700	24650	340	2.02

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DATA SHEET

SEWER CLEANING HOSE

MAIN APPLICATION:	Sewer jetting and heavy duty, high pressure wate cleaning.
TEMPERATURE RANGE:	-30°C / +80 °C
INNER TUBE:	SBR, black, smooth
REINFORCEMENT:	High tensile aramide textile braid
COVER:	SBR/NR, black,smooth syntheticrubber with high abrasion, ozone and weather resistance. (rubber color and surface finish can be customized as per customer's request)

I.D			WALL THICKNESS		O.D	MAX W.P		MIN B.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM		MM	BAR	PSI	BAR	PSI	MM	KG/M
-8	13	1/2"	6.3	±0.5	25.6	250	3625	625	9063	70	0.45
-12	19	3/4"	6.3	±0.5	31.6	250	3625	625	9063	90	0.61
-16	25	1"	7.2	±0.5	39.3	250	3625	625	9063	100	0.9
-20	32	1-1/4"	7.8	±0.5	47.6	250	3625	625	9063	130	1.12

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DATA SHEET

EN 856 4SH

MAIN APPLICATION:	Very high pressure applications used for petroleum based hydraulic fluids.
APPLICABLE SPECS:	EN 856 4SH – ISO-3862-1 4SH- MT/T984SH
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four high tensile steel spiral .
COVER:	Synthetic rubber with high abrasion, Ozone and weather resistance, Fire resistant, with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover – High temperature (up to 200°C) – Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-12	19	3/4"	28.2	1.11	31.9	1.26	420	6090	1680	24360	280	1.55
-16	25	1"	35.1	1.38	38.1	1.50	380	5510	1520	22040	340	2.00
-20	31	1 1/4"	42.2	1.66	45.0	1.77	350	5076	1300	18855	460	2.46
-24	38	1 1/2"	49.1	1.93	53.1	2.09	290	4205	1160	16820	560	3.36
-32	51	2"	63.5	2.50	67.5	2.66	250	3650	1000	15600	700	4.98

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DATA SHEET

EN 856 4SP

MAIN APPLICATION:	Very high-pressure applications used for petroleum based hydraulic fluids.
APPLICABLE SPECS:	EN 856 4SP – ISO 3862-1 4SP – MT/T98 4SP
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	Four high tensile steel spiral.
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover – High temperature(up to 200°C) – Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4″	14.7	0.58	17.6	0.69	450	6520	1800	26100	125	0.59
-6	10	3/8″	17.6	0.69	21.0	0.83	445	6450	1780	25810	180	0.78
-8	12	1/2″	20.3	0.80	24.2	0.96	415	6010	1660	24070	230	0.89
-10	16	5/8″	23.8	0.94	27.6	1.09	350	5070	1400	20300	250	1.11
-12	19	3/4″	28.2	1.11	31.7	1.25	350	5070	1400	20300	300	1.59
-16	25	1″	35.0	1.38	39.0	1.54	280	4060	1120	16240	340	2.02
-20	31	1-1/4″	46.1	1.81	49.7	1.96	210	3040	840	12180	460	3.32
-24	38	1-1/2″	52.4	2.06	56.1	2.21	185	2680	740	10730	560	3.7
-32	51	2″	65.4	2.57	69	2.72	165	2390	660	9572	660	5.47

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DATA SHEET

EN 856 R12

MAIN APPLICATION:	Very high-pressure application used for petroleum based hydraulic fluids.
APPLICABLE SPECS:	EN 856 R12 - SAE J517R12 -MT/T98 R12
TEMPERATURE RANGE:	-40°F /+250°F -40°C / 121 °C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	Four high tensile steel spiral.
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
OPTIONAL FEATURES:	Extreme Abrasion resistant UHMWPE Cover - High temperature (up to 200°C) - Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-6	10	3/8"	17.3	0.68	20.0	0.79	276	4000	1104	16000	127	0.6
-8	12	1/2"	20.4	0.8	23.5	0.93	276	4000	1104	16000	178	0.8
-10	16	5/8"	24.4	0.96	27.1	1.07	276	4000	1104	16000	200	1.15
-12	19	3/4"	27.4	1.08	30.4	1.2	276	4000	1104	16000	240	1.25
-16	25	1"	35.0	1.38	37.6	1.48	276	4000	1104	16000	300	1.85
-20	32	1-1/4"	43.1	1.7	45.9	1.81	207	3000	828	12000	420	2.65
-24	38	1-1/2"	50.0	1.97	53.3	2.1	172	2500	688	10000	500	3.15
-32	51	2"	63.6	2.5	66.7	2.63	172	2500	688	10000	630	4.25

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DATA SHEET

EN856 R13

MAIN APPLICATION:	Very high-pressure applications subject to surge or flexing such as construction equipment, mining and the high performance industrial market.
APPLICABLE SPECS:	EN 856 R13 – SAE 100 R13 – ISO 3862 R13
TEMPERATURE RANGE:	-40°F / +250°F -40°C / +121°C
INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four high tensile steel spirals (DN19~25), Six high tensile steel spirals (DN31~51)
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover – High temperature(up to 200°C)- Low temperature(down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT	CONSTR.
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M	
-12	19	3/4"	29.0	1.14	32.0	1.26	345	5075	1380	20000	240	1.61	4S
-16	25	1"	35.1	1.38	38.4	1.51	345	5075	1380	20000	300	2.08	4S
-20	31	1 1/4"	46.3	1.82	49.3	1.94	345	5075	1380	20000	420	3.57	6S
-24	38	1 1/2"	53.7	2.11	57.3	2.26	345	5075	1380	20000	500	4.58	6S
-32	51	2"	68.0	2.68	71.6	2.82	345	5075	1380	20000	630	6.88	6S

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DATA SHEET

SAE 100 R15

MAIN APPLICATION:	Designed specifically to handle severe high pressure applications where pressure or constant hydrostatic loads are present.
APPLICABLE SPECS:	SAE 100 R15 – ISO 3862 R15
TEMPERATURE RANGE:	-40°F / +250°F -40°C / +121°C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	Four high tensile steel spirals (DN10~19), Six high tensile steel spirals (DN25~38)
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance, Fire resistant with MSHA approval (rubber color and surface finish can be customized as per customer's request)
Optional Features:	Extreme Abrasion resistant UHMWPE Cover – High temperature(up to 200°C) – Low temperature (down to -50°C)

I.D			R.O.D		O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT	Constr.
DASH	DN	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M	
-6	10	3/8″	17.5	0.69	21.2	0.83	420	6090	1680	24360	150	0.76	4S
-8	12	1/2″	20.3	0.80	24.4	0.96	420	6090	1680	24360	200	1.02	
-12	19	3/4″	28.2	1.11	32.0	1.26	420	6090	1680	24360	265	1.65	
-16	25	1″	35.1	1.38	38.4	1.51	420	6090	1680	24360	330	2.29	
-20	31	1-1/4″	46.3	1.82	49.3	1.94	420	6090	1680	24360	445	3.97	6S
-24	38	1-1/2″	53.7	2.11	57.3	2.26	420	6090	1680	24360	530	4.72	

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DATA SHEET

SAE 100 R7

MAIN APPLICATION:	Medium-pressure thermoplastic hose with a perforated cover. Compatible with petroleum-water and synthetic – based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery.
SPECIFICATIONS:	EN 855 R7; SAE 100R7; ISO 3949
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Hydraulic oils, air and water based fluids resistant PA
REINFORCEMENT:	One high tensile polyester braid
COVER:	Oil, abrasion and weather resistant polyurethane.
Features:	Twin hoses- Steel reinforcement- Perforated for air transfer application

I.D			O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-2	3	1/8″	6	0.24	250	3625	1000	14500	25	0.051
-3	5	3/16″	10	0.39	260	3770	1040	15080	35	0.07
-4	6	1/4″	11.5	0.45	220	3190	880	12760	50	0.089
-5	8	5/16″	14	0.55	200	2900	800	11600	60	0.129
-6	10	3/8″	15	0.59	190	2755	760	11020	80	0.161
-8	12	1/2″	20	0.79	170	2465	680	9860	95	0.22
-10	16	5/8″	24	0.94	150	2175	600	8700	125	0.28
-12	19	3/4	28	1.1	120	1740	480	6960	150	0.33
-16	25	1″	34	1.34	70	1015	280	4060	200	0.4

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DATA SHEET

SAE 100 R8

MAIN APPLICATION:	Medium-pressure thermoplastic hose with a perforated cover. Compatible with petroleum-water andsynthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery.
APPLICABLE SPECS:	EN 855 R8; SAE 100R8; ISO 3949
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Hydraulic oils, air and water based fluids resistant PA.
REINFORCEMENT:	One high tensile aramidic fiber braid.
COVER:	Oil, abrasion and weather resistant polyurethane.
Optional Features:	Twin hoses- Pin-pricked for air transfer application.

I.D			O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-2	3	1/8″	6.0	0.24	630	9135	2520	36540	25	0.051
-3	5	3/16″	10.3	0.41	350	5075	1400	20300	35	0.09
-4	6	1/4″	12.4	0.49	350	5075	1400	20300	50	0.1
-5	8	5/16″	14.2	0.55	300	4350	1200	17400	60	0.13
-6	10	3/8″	15.7	0.62	280	4060	1120	16240	80	0.18
-8	12	1/2″	19.3	0.76	245	3553	980	14212	95	0.22
-10	16	5/8″	23.1	0.91	200	2900	800	11600	125	0.31
-12	19	3/4″	26.4	1.04	165	2393	660	9572	150	0.36
-16	25	1″	33.3	1.31	140	2030	560	8120	200	0.51

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DATA SHEET

THERMOPLASTIC HOSE (1WIRE)

MAIN APPLICATION:	Medium-pressure thermoplastic hose with a perforated cover. Compatible with petroleum - water and synthetic - based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery
TEMPERATURE RANGE:	For hydraulic fluids -40°F / +199°F -40°C / +93°C. For water based fluids and air Max +65°C (+149°F)
INNER TUBE:	Hydraulic oils, air and water based fluids resistant PA
REINFORCEMENT:	1 high tensile steel braid.
COVER:	Oil, abrasion and weather resistant polyurethane.
Optional Features:	Twin hoses- Pin-pricked

I.D			O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-3	5	3/16″	10	0.39	330	4785	1320	19140	20	0.107
-4	6	1/4″	11.7	0.46	300	4351	1200	17404	35	0.168
-5	8	5/16″	13.5	0.53	215	3117	860	12470	40	0.184
-6	10	3/8″	15.5	0.61	215	3117	860	12470	60	0.249
-8	12	1/2″	19	0.75	180	2610	720	10440	70	0.297
-10	16	5/8″	22.5	0.89	145	2102	580	8510	110	0.378
-12	19	3/4″	26.5	1.04	120	1740	480	6960	150	0.448
-16	25	1″	33.2	1.31	97	1406	390	5655	170	0.537

Also Available in twin

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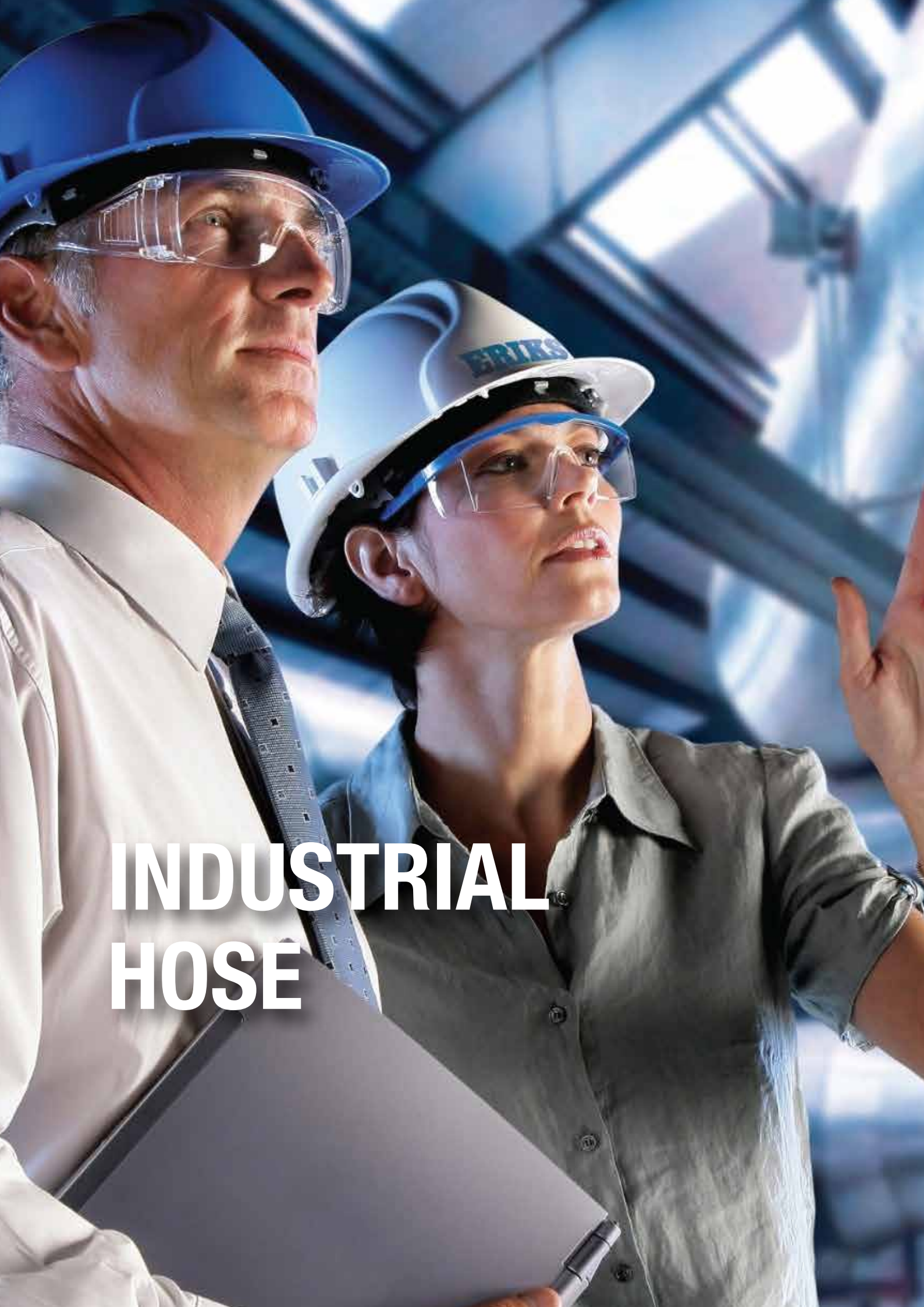
DATA SHEET

THERMOPLASTIC HOSE (2 WIRE)

MAIN APPLICATION:	Medium-pressure thermoplastic hose with a perforated cover. Compatible with petroleum - water and synthetic - based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery
TEMPERATURE RANGE:	For hydraulic fluids -40°F / +199°F -40°C / +93°C. For water based fluids and air Max +65°C (+149°F)
INNER TUBE:	Hydraulic oils, air and water based fluids resistant PA
REINFORCEMENT:	2 high tensile steel braid.
COVER:	Oil, abrasion and weather resistant polyurethane.
Optional Features:	Twin hoses- Pin-pricked for air tranfer application

I.D			O.D	MAX W.P			MIN B.P.	MIN B.R	WEIGHT
DASH	DN	INCH	MM	BAR	PSI	BAR	PSI	MM	KG/M
-4	6	1/4″	13.2	450	6525	1800	25920	40	0.26
-5	8	5/16″	15.2	400	5800	1600	23200	50	0.32
-6	10	3/8″	17.5	380	5510	1520	22040	80	0.38
-8	12	1/2″	21.5	300	4350	1200	17400	90	0.48
-10	16	5/8″	24.5	180	2610	720	10440	100	0.61
-12	19	3/4″	28	160	2320	640	9280	130	0.77
-16	25	1″	35	120	1740	480	6960	150	0.92

Also Available in twin



INDUSTRIAL HOSE

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DATA SHEET

WATER OIL SUCTION & DISCHARGE HOSE

MAIN APPLICATION:	For suction and discharge the water /petorleum products with aromatic content upto 50%
TEMPERATURE RANGE:	-22°F / +158°F -30°C / +70°C
INNER TUBE:	Water/ Oil resistant synthetic rubber
REINFORCEMENT:	High tensile synthetic textile, steel wire helix
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance.
OPTIONAL FEATURES:	Antistatic copper wire

I.D		O.D	MAX W.P		MIN B.P		LENGTH/ROLL
DN	INCH	MM	BAR	PSI	BAR	PSI	MM
1/4"	6	14.0	10	150	30	450	100
5/16"	8	16.0	10	150	30	450	100
3/8"	10	18	10	150	30	450	100
1/2"	13	22	10	150	30	450	100
5/8"	16	25	10	150	30	450	100
3/4"	19	29	10	150	30	450	60/100
1"	25	35.4	10	150	30	450	60/100
1-1/4"	32	43.4	10	150	30	450	60
1-1/2"	38	51	10	150	30	450	60
1-3/4"	45	58	10	150	30	450	60
2"	51	64	10	150	30	450	60
2-1/2"	64	77.8	10	150	30	450	60
3"	76	90	10	150	30	450	60
3-1/2"	89	103.6	10	150	30	450	60
4"	102	116.6	10	150	30	450	60
5"	51	142.4	10	150	30	450	60
6"	64	167.4	10	150	30	450	60
8"	76	222.6	10	150	30	450	10
10"	89	274	10	150	30	450	10
12"	102	320	10	150	30	450	10
1/4"	6	14	20	300	60	900	100
5/16"	8	16	20	300	60	900	100
3/8"	10	18	20	300	60	900	100
1/2"	13	22	20	300	60	900	100
5/8"	16	25	20	300	60	900	100
3/4"	19	31	20	300	60	900	60/100
1"	25	37	20	300	60	900	60/100
1-1/4"	32	45.8	20	300	60	900	60
1-1/2"	38	51.8	20	300	60	900	60
1-3/4"	45	59.6	20	300	60	900	60
2"	51	65.6	20	300	60	900	60
2-1/2"	64	79.4	20	300	60	900	60
3"	76	91.4	20	300	60	900	60
3-1/2"	89	107.6	20	300	60	900	60
4"	102	120.6	20	300	60	900	60
5"	127	148.8	20	300	60	900	60
6"	152	173.8	20	300	60	900	60
8"	203	228	20	300	60	900	10
10"	25	280	20	300	60	900	10

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DATA SHEET

SAE 100 R14 TEFLON HOSE

APPLICATION:	Medium- pressure hydraulic applications including truck, bus, industrial and aerospace. Compartible with air, fuel, lubricants, high-temp oil and some chemical applications.
APPLICABLE SPECS:	Meets or exceeds the performance requirements of: SAE 100R14A, FDA 21 CFR 177, 1500 Specifications
TEMPERATURE RANGE:	-58°F to 400°F (-50°C to 200°C)
INNER TUBE:	Polytetraflouroethylene (PTFE) smooth inner tube.
REINFORCEMENT:	304 stainless steel wire braid.
Optional Features:	316 stainless steel wire braid-corrugated inner tube-imported PTFE higher temperature range -58°F to 500°F (-50°C to 260°C)

I.D			O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-3	3	1/8″	6.2	0.24″	314	4550	1080	15660	45	0076
-4	5	3/16″	7.7	0.3″	240	3480	725	10510	76	0076
-5	6	1/4″	9.2	0.36″	230	3330	680	9860	81	0.13
-6	8	5/16″	10.8	0.43″	194	2810	620	8990	131	0.146
-7	10	3/8″	12.4	0.49″	162	2350	540	7830	182	0.18
-10	12	1/2″	15.9	0.63″	90	1300	360	5220	211	0.22
-12	16	5/8″	19.3	0.76″	80	1160	250	3625	252	0.27
-14	19	3/4″	22.3	0.88″	70	1010	223	3230	300	0.38
-16	22	7/8″	25.8	1.02″	60	870	210	3045	421	0.43
-18	25	1″	29.5	1.16″	50	720	195	2820	485	0.48

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DATA SHEET

CONVOLUTED TEFLON HOSE

MAIN APPLICATION:	Medium-pressure hydraulic applications including truck, bus, industrial andaerospace.Compatible with air, fuel, lubricants, high-temp oil and some chemical applications.
TEMPERATURE RANGE:	-58°F to 400°F (-50°C to 200°C)
INNER TUBE:	Smooth Polytetraflouroethylene (PTFE) corrugated inner tube
REINFORCEMENT:	304 stainless steel wire braid

I.D			O.D		MAX W.P		MIN B.P.	
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI
-4	5	3/16"	8+7	0.34	150	2175	480	6960
-5	6	1/4"	10.7	0.42	130	1885	420	6090
-6	8	5/16"	12.5	0.49	120	1740	380	5510
-7	10	3/8 "	15.6	0.61	110	1595	320	4640
-10	12	1/2"	18.5	0.73	75	1087.5	285	4132.5
-12	16	5/8"	22	0.87	70	1015	190	2755
-14	19	3/4"	26.7	1.05	60	870	180	2610
-16	22	7/8"	29.4	1.16	55	797.5	160	2320
-18	25	1"	31.3	1.23	42	609	110	1595

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DATA SHEET

OIL/FUEL HOSE

MAIN APPLICATION:	Petroleum base hydraulic fluids.
APPLICABLE SPECS:	EN 854 1TE - SAE 100R6 - commonly used in RU market.
TEMPERATURE RANGE:	-40°F / +212°F -15°C / +65°C
INNER TUBE:	Oil resistant synthetic rubber.
REINFORCEMENT:	One high tensile textile braid.
COVER:	Synthetic rubber with high oil, abrasion, ozone and weather resistance.
OPTIONAL FEATURES:	Conductive copper wire

I.D			O.D		MAX W.P		MIN W.P		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-3	5	3/16"	11.5	0.45	16	290	48	870	50	0.15
-4	6	1/4"	12.0	0.47	16	232	48	696	65	0.17
-5	8	5/16"	14	0.55	16	232	48	696	75	0.2
-6	10	3/8"	17	0.67	16	232	48	696	75	0.28
-8	12	1/2"	20	0.79	16	232	48	696	100	0.4
-10	16	5/8"	24	0.94	16	232	48	696	125	0.45
-12	19	3/4"	28	1.1	16	232	48	696	150	0.57
-16	25	1"	35	1.38	16	232	48	696		0.88
-20	32	1-1/4"	43	1.69	16	232	48	696		0.99
-24	38	1-1/2"	49	1.93	16	232	48	696		1.16
-32	50	2"	62	2.44	16	232	48	696		1.73

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DATA SHEET

AIR/WATER HOSE I

MAIN APPLICATION:	For air and water transfer
TEMPERATURE RANGE:	5°F / +158°F -15°C / +70°C
INNER TUBE:	Synthetic rubber.
REINFORCEMENT:	One high tensile textile braid (DN6-27) Four high tensile textile spirals (DN32-102)
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance.
OPTIONAL FEATURES:	Pin-Pricked for air transfer application

I.D		O.D		MAX W.P		MIN B.P		WEIGHT	CONSTR.
DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	KG/M	
6	1/4"	13	0.51	20	300	60	900	0.18	1B
8	5/16"	15	0.59	20	300	60	900	0.2	
10	3/8"	17	0.67	20	300	60	900	0.26	
12	1/2"	20	0.79	20	300	60	900	0.36	
16	5/8"	24.8	0.98	12	174	36	522	0.42	
20	3/4"	26.8	1.06	12	174	36	522	0.45	
22	7/8"	29.8	1.17	12	174	36	522	0.6	
25	1"	33.5	1.32	12	174	36	522	0.7	
27	1 1/8"	35.5	1.4	12	174	36	522	0.8	

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DATA SHEET

AIR/WATER HOSE II

MAIN APPLICATION:	For air and water transfer
TEMPERATURE RANGE:	5°F / +158°F -15°C / +70°C
INNER TUBE:	Synthetic rubber.
REINFORCEMENT:	One high tensile textile braid (DN6-27) Four high tensile textile spirals (DN32-102)
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance.
OPTIONAL FEATURES:	Pin-Pricked for air transfer application

I.D		O.D		MAX W.P		MIN B.P		WEIGHT	CONSTR.
DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	KG/M	
32	1 1/4"	41.5	1.63	12	174	36	522	0.95	
35	1 3/8"	44.5	1.75	12	174	36	522	1.04	
38	1 1/2"	47.5	1.87	12	174	36	522	1.16	
40	1 5/8"	50	1.97	12	174	36	522	1.29	
42	1 2/3"	51.5	2.03	12	174	36	522	1.5	
45	1 3/4"	54.5	2.15	12	174	36	522	1.63	
51	2"	61.5	2.42	12	174	36	522	1.75	45
57	2 1/4"	67.5	2.66	12	174	36	522	1.96	
60	2 3/8"	70.5	2.78	12	174	36	522	2.09	
64	2 1/2"	75	2.95	12	174	36	522	2.33	
76	3"	88	3.46	12	174	36	522	2.79	
89	3 1/2"	102.5	4.04	12	174	36	522	3.35	
102	4"	115.5	4.55	12	174	36	522	3.75	

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DATA SHEET

STEAM HOSE

MAIN APPLICATION:	Using in petrochemical industry, shipyard for transferring Saturated and superheated steam.
TEMPERATURE RANGE:	-40°C / +210°C (-40°F / +410°F) intermittent to 232°C (450°F)
INNER TUBE:	Black EPDM
REINFORCEMENT:	Two high tensile steel braids
COVER:	Red EPDM perforted rubber with abrasion and azone resistant

I.D			O.D		MAX W.P		MIN B.P.		MIN B.R	WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
-8	12	1/2″	23	0.98	18	270	180	2700	130	0.42
-10	16	5/8″	26	1.02	18	270	180	2700	160	0.46
-12	19	3/4″	31	1.26	18	270	180	2700	190	0.77
-16	25	1 ″	38	1.50	18	270	180	2700	250	0.90
-20	32	1 1/4	46	1.81	18	270	180	2700	320	1.27
-24	38	1 1/2″	52	2.05	18	270	180	2700	380	1.37
-32	51	2″	67	2.64	18	270	180	2700	510	2.05
-40	63	2 1/2″	81	3.19	18	270	180	2700	630	2.96
-48	76	3″	94	3.70	18	270	180	2700	760	3.72

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DATA SHEET

CONCRETE PUMP HOSE

MAIN APPLICATION:	Specially developed premium hose for conveying concrete using pumps. Suitable for conveying concrete, cement and plaster. Long service life due to abrasion resistant tube. Flexible and easy
TEMPERATURE RANGE:	-35°C / +80°C
INNER TUBE:	NR/SBR/BR,Black,smooth, antistatic, abrasion resistant.
REINFORCEMENT:	Steel cord wrapped
COVER:	SBR, black, antistatic,cloth impression.

I.D		O.D		MAX W.P		MIN B.P		MIN B.R	WEIGHT
MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	KG/M
51	2	68±1.5	2.68	85	1300	200	2900	200	2.8
64	2.5	85±1.5	3.35	85	1300	200	2900	250	4
76	3	102±1.5	4.02	85	1300	200	2900	270	6
89	3.5	116±1.5	4.57	85	1300	200	2900	290	7.5
102	4	130±1.75	5.12	85	1300	200	2900	300	9.2
115	4.5	143±2	5.63	85	1300	200	2900	320	10.5
127	5	158±2	6.22	85	1300	200	2900	360	11.7
152	6	186±2	7.32	85	1300	200	2900	570	17

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DATA SHEET

SAND BLAST HOSE

MAIN APPLICATION:	For cleaning and blasting metal, stone and concrete surfaces.
TEMPERATURE RANGE:	-40°F / +176°F -40°C / +80°C
INNER TUBE:	Abrasion resistant,antistatic natural rubber
REINFORCEMENT:	High tensile textile cords.
COVER:	Synthetic rubber with high abrasion, ozone and weather resistance-pin pricked.

I.D			O.D		MAX W.P		MIN B.P		WEIGHT
DASH	DN	INCH	MM	INCH	BAR	PSI	BAR	PSI	KG/M
-12	19	3/4"	33.0	1.3	10	150	30	450	0.71
-12	19	3/4"	35.0	1.38	10	150	30	450	0.83
-16	25	1"	39	1.54	10	150	30	450	0.87
-20	32	1 1/4"	48	1.89	10	150	30	450	1.24
-24	38	1 1/2"	55	2.17	10	150	30	450	1.65
-	40	19/16"	60	2.36	10	150	30	450	1.93
-32	51	2"	71	2.8	10	150	30	450	2.40
-12	19	3/4"	38	1.5	10	150	30	450	1.00
-16	25	1"	48	1.89	10	150	30	450	1.54
-20	32	1 1/4"	55	2.17	10	150	30	450	1.83
-24	38	1 1/2"	60	2.36	10	150	30	450	2.08
-32	51	2"	73	2.87	10	150	30	450	2.63

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DATA SHEET

ROTARY DRILLING AND VIBRATOR HOSES, CEMENT HOSES, AND MUD DELIVERY HOSES

MAIN APPLICATION:	The rotary/drilling hose is used in oildrilling industry. bore-hole operation and washing used on drilling rig for delivering petroleum based fluid: water, cement, mud
Applicable Specs	API Spec 7K
TEMPERATURE RANGE:	-40°F / +212°F -40°C / +100°C
INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Multiple high tensile steel wire spirals
COVER:	Synthetic rubber with high abrasion, oil, ozone and weather resistance. Fire resisant with MSHA approval

GRADE	I.D		MAX W.P		TEST PRESSURE		MIN B.P		MIN B.R
	MM	INCH	MPA	PSI	MPA	PSI	BAR	PSI	MM
A	50.8	2	10.3	1500	20.7	3000	25.8	3750	900
	63.5	2.5	10.3	1500	20.7	3000	25.8	3750	900
	50.8	2	13.8	2000	27.6	4000	34.5	5000	900
	63.5	2.5	13.8	2000	27.6	4000	34.5	5000	900
C	50.8	2	27.6	4000	55.2	8000	69	10000	900
	63.5	2.5	27.6	4000	55.2	8000	69	10000	900
	76.2	3	27.6	4000	55.2	8000	69	10000	1200
	88.9	3.5	27.6	4000	55.2	8000	69	10000	1400
	101.6	4	27.6	4000	55.2	8000	69	10000	1400
	127	5	27.6	4000	55.2	8000	69	10000	1500
D	50.8	2	34.5	5000	69	10000	86.3	12500	900
	63.5	2.5	34.5	5000	69	10000	86.3	12500	900
	76.2	3	34.5	5000	69	10000	86.3	12500	1200
	88.9	3.5	34.5	5000	69	10000	86.3	12500	1400
	101.6	4	34.5	5000	69	10000	86.3	12500	1400
	127	5	34.5	5000	69	10000	86.3	12500	1500
	152.4	6	34.5	5000	69	10000	86.3	12500	1800
E	63.5	2.5	51.7	7500	103.4	15000	129.3	18750	1200
	76.2	3	51.7	7500	103.4	15000	129.3	18750	1200
	88.9	3.5	51.7	7500	103.4	15000	129.3	18750	1400
	101.6	4	51.7	7500	103.4	15000	129.3	18750	1500
	127	5	51.7	7500	103.4	15000	129.3	18750	1800
	152.4	6	51.7	7500	103.4	15000	129.3	18750	1800
F Cement	50.8	2	69	10000	103.4	15000	155.3	22500	1200
	63.5	2.5	69	10000	103.4	15000	155.3	22500	1200
	76.2	3	69	10000	103.4	15000	155.3	22500	1500
	101.6	4	69	10000	103.4	15000	155.3	22500	1800
G cement	50.8	2	103.4	15000	155.2	22500	232.7	33750	1400
	63.5	2	103.4	15000	155.2	22500	232.7	33750	1500
	76.2	2	103.4	15000	155.2	22500	232.7	33750	1600

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