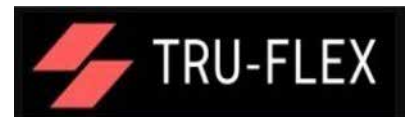


HYDRAULIC HOSES CATALOG

www.alfeeltrading.com



Hydraulic Hoses

Flexible hoses catalogue January 2024 edition
TRU-FLEX® reserves the right to change specification without notice

www.afeeltrading.com

HYDRAULIC HOSES

TRU-FLEX® 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 TRU-FLEX®, 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.

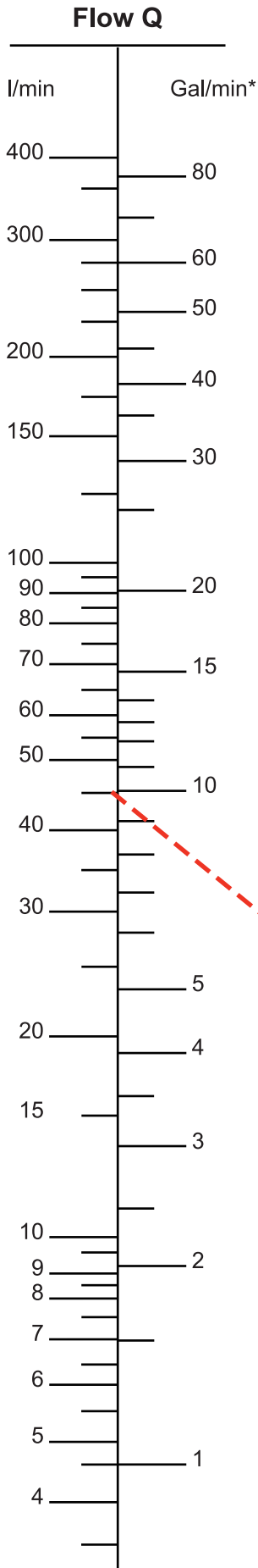
Our primary strategy for international expansion is to establish a presence in countries where our primary clients operate, allowing for more efficient and timely product delivery. TRU-FLEX® rubber hydraulic hoses and Fittings are manufactured to meet or exceed DIN EN, SAE, ISO and other industry requirements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

The TRU-FLEX® 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 TRU-FLEX®'s specifications and requirements, and during manufacturing production by validating lot samples through specified quality controls.

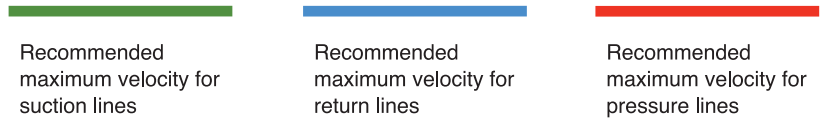
Thermoplastic Hoses **Rubber Hydraulic Hoses**
Industrial Hoses Hydraulic Quick release coupling
Hydraulic Hoses Fittings & Adapters
Hose Processing Machines **Hose Protection** **Pneumatic Tubes**
Pressure washer Hoses



Recommended Hose Size



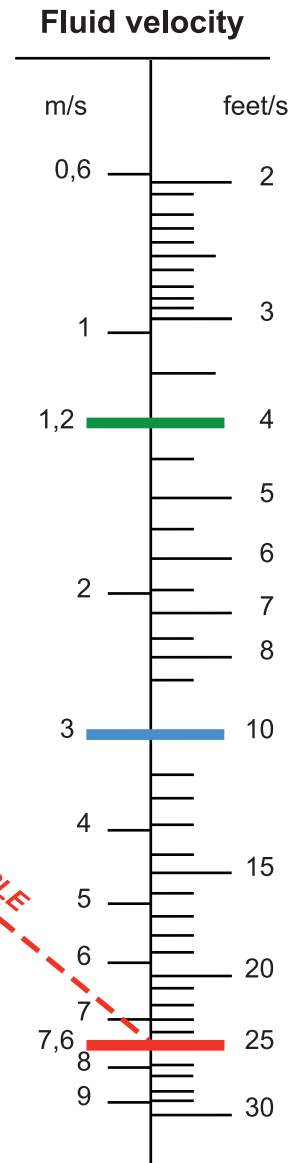
FLOW / VELOCITY NORMOGRAM



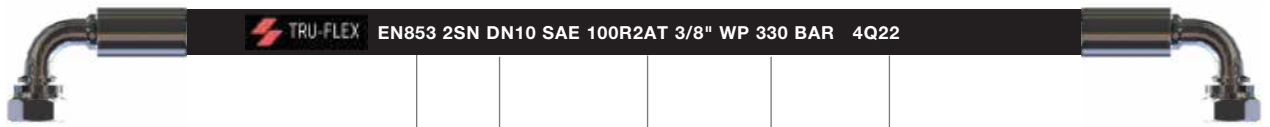
* Gallons in table are imperial (British) gallons. To convert on US Gallons: multiply by 1,2009.

Hose diameter

DN	Inches	dash size
51	2	-32
38	1-1/2"	-24
32	1-1/4"	-20
25	1"	-16
19	3/4"	-12
16	5/8"	-10
12	1/2"	-08
10	3/8"	-06
8	5/16"	-05
6	1/4"	-04
5	3/16"	-03



EXAMPLE



Size _____

Part N. / Norm _____

Max Working Pressure in BAR _____

Max Working Pressure in PSI _____

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	ETHYLENE GLYCOL	EXCELLENT	NITRIC ACID (CONC.)	INADEQUATE
ACETONE	INADEQUATE	ETHYLENEOXIDE	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	PERCHLOROETHYLENE	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
BUTYLALCOHOL/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 change ment,
LIMITED: Limited chemical resistance, with moderately acceptable properties change ments,
INADEQUATE: Inadequate resistance, with drastic collapse of all the characteristics,

The chart is intended as a guide only and is not a guarantee, 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 technical office for a case study.



Warning

ATTENTION TO ALL DISTRIBUTORS AND CUSTOMERS

THE TRU-FLEX® hoses and fittings are designed as integral parts of hose assembly system to be used together and they should only be used together or in conjunction with other types of fittings for TRU-FLEX®

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 TRU-FLEX® 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.**

TRU-FLEX® shall not be responsible for any default other than hose, fittings, or hose assembly we supply.

TRU-FLEX® 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.

TRU-FLEX® 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 TRU-FLEX® 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, lattered, 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	Replace the hose
		Improper hose routing	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

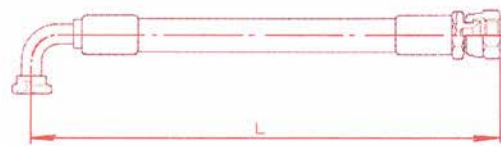
Case 1)



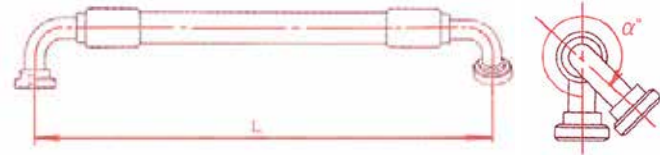
Case 2)



Case 3)



Case 4)



2-2 Hose Protective Materials

1) 1012 Spring

Use to protect too small bending at end of fitting.



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.



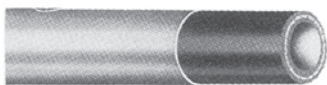
4) Grass Wool Wire Braid (1G-1W)

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 abrasion.



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.

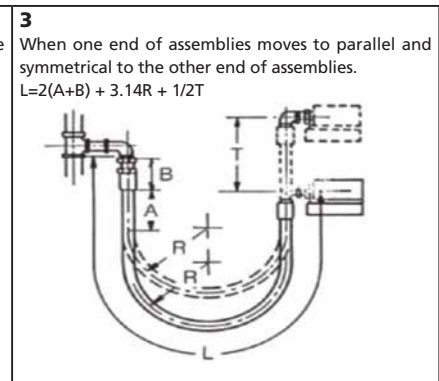
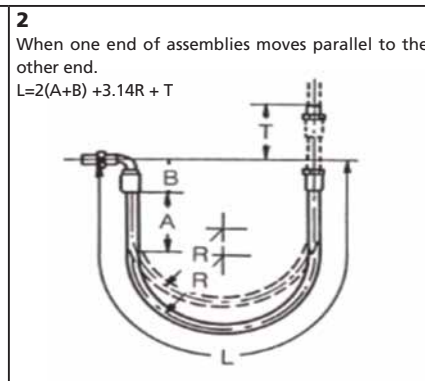
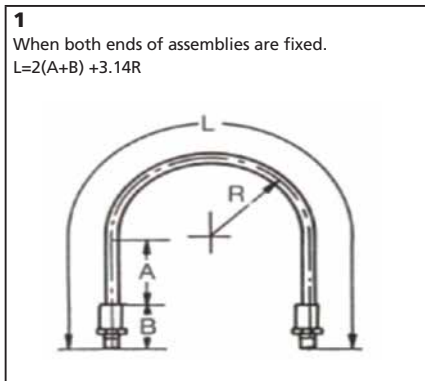
[B] = the length of fitting

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

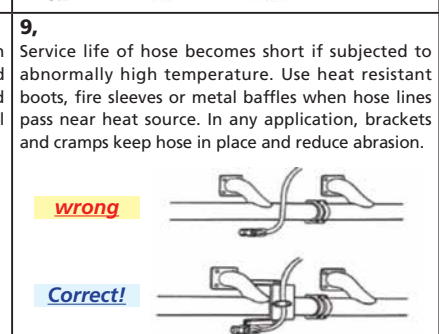
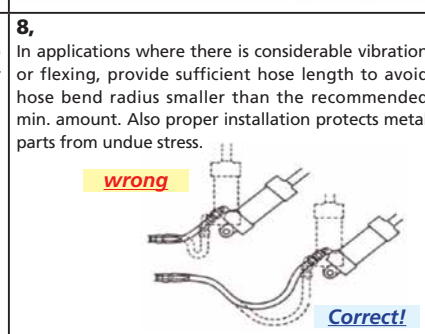
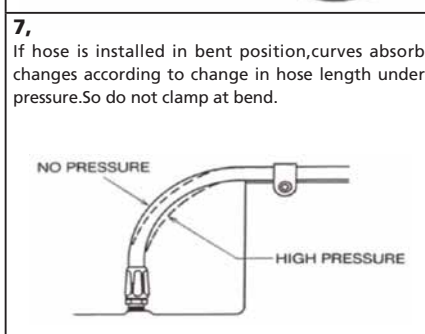
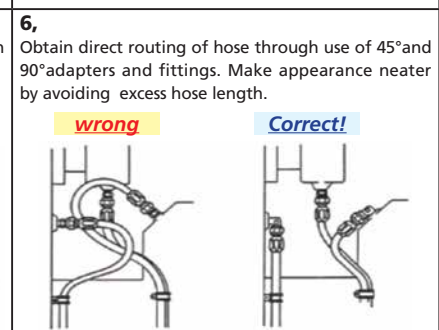
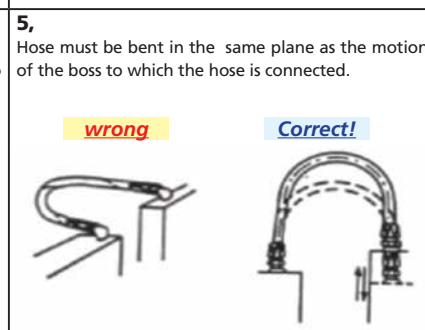
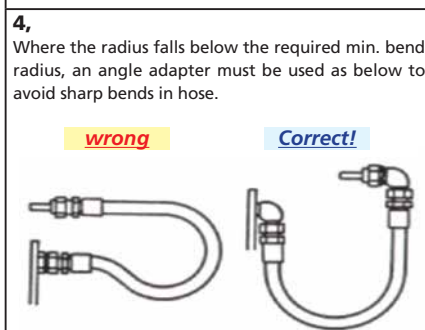
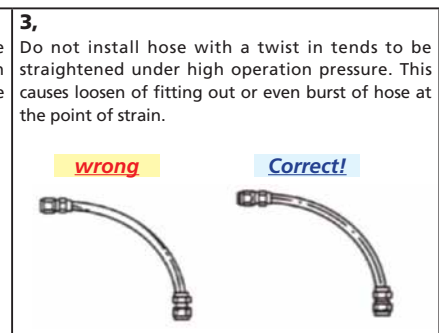
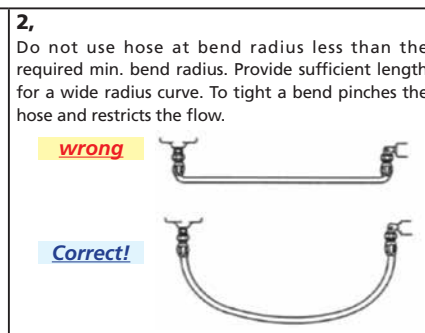
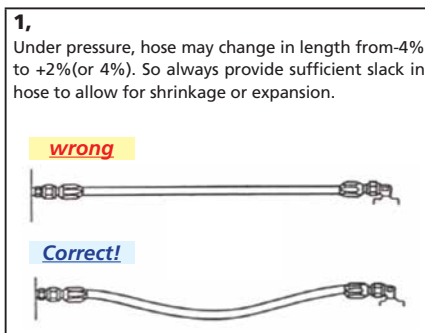
[T] = the length of travel

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)



Correct assembly installation



DATA SHEET

DIN-EN 853 1SN

APPLICATION:	Medium pressure hydraulic application including mobile, machine tool and agricultural application, using petroleum or water based hydraulic fluids.
INNER TUBE:	Nitrile
REINFORCEMENT:	One braid of high-tensile steel wire
COVER:	Black Neoprene Blend
TEMPERATURE RANGE:	-40°F to 212°F (-40°C to 100°C)



HOSE SIZE		HOSE ID	HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
Inch	Dash	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
3/16	-3	5.1	11.3	25.0	3630	100	14504	90	0.19
1/4	-4	6.6	12.9	22.5	3260	90	13053	100	0.22
5/16	-5	8.2	14.6	21.5	3120	85	12328	115	0.26
3/8	-6	9.9	17.1	18.0	2610	72	10443	130	0.33
1/2	-8	13.2	20.4	16.0	2320	64	9282	180	0.40
5/8	-10	16.3	23.7	13.0	1890	52	7542	200	0.48
3/4	-12	19.5	27.7	10.5	1520	42	6092	240	0.62
1	-16	25.8	35.8	8.8	1280	35	5076	300	0.96
1-1/4	-20	32.5	42.5	6.3	910	25	3626	420	1.12
1-1/2	-24	38.7	49.0	5.0	720	20	2901	500	1.33
2	-32	51.4	62.3	4.0	580	16	2321	630	1.99

*Also Available in Smooth Cover

DATA SHEET

DIN-EN 853 2SN

APPLICATION:	High pressure hydraulic oil lines used in construction, machine tool and agriculture application using petroleum or water – based hydraulic fluids.
INNER TUBE:	Nitrile
REINFORCEMENT:	Two braid of high-tensile steel wire
COVER:	Black Neoprene Blend
TEMPERATURE RANGE:	-40°F to 212°F (-40°C to 100°C)



HOSE SIZE		HOSE ID	HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
Inch	Dash	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
3/16	-3	5.1	12.4	41.5	6019	165	23931	90	0.31
1/4	-4	6.6	14.6	40.0	5801	160	23205	100	0.38
5/16	-5	8.2	16.4	35.0	5076	140	20305	115	0.42
3/8	-6	9.9	18.6	33.0	4786	132	19145	130	0.51
1/2	-8	13.2	21.8	27.5	3989	110	15954	180	0.61
5/8	-10	16.3	25.2	25.0	3625	100	14504	200	0.78
3/4	-12	19.5	29.2	21.5	3118	86	12473	240	0.96
1	-16	25.8	37.8	16.5	2393	65	9427	300	1.39
1-1/4	-20	32.5	46.5	12.5	1813	50	7252	420	1.86
1-1/2	-24	38.7	53	9.0	1305	36	5221	500	2.10
2	-32	51.4	66.6	8.0	1160	32	4641	630	2.84

*Also Available in Smooth Cover

DATA SHEET

DIN-EN 857 2SC

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Two high tensile steel wire layers
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +100°C



DN	HOSE ID		HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
6	1/4	6.4	14.2	45.0	6525	180	26100	75	0.28
8	5/16	7.9	16.0	40.0	5800	160	23200	85	0.36
10	3/8	9.5	18.3	37.5	5438	150	21750	90	0.41
13	1/2	12.7	21.5	31.0	4495	124	17980	130	0.59
16	5/8	15.9	24.7	30.0	4350	120	17400	170	0.63
19	3/4	19.0	28.6	28.7	4162	115	16675	200	0.80
25	1	25.4	36.6	22.5	3263	90	13050	250	1.17

Also Available in Smooth Cover

DATA SHEET

SAE 100 R3 / EN854 R3

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Double high tensile fibre braids
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +100°C



DN	HOSE ID		HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
5	3/16	5.1	13.5	10.5	1520	42.0	6092	75	0.14
6	1/4	6.6	15.1	8.8	1280	34.8	5104	75	0.18
8	5/16	8.2	18.3	8.4	1218	33.6	4873	100	0.25
10	3/8	9.9	19.8	7.8	1131	31.2	4525	100	0.27
13	1/2	13.2	24.6	7.0	1015	28.0	4061	125	0.39
16	5/8	16.3	27.8	6.1	885	24.4	3539	140	0.55
19	3/4	19.5	32.5	5.2	754	20.8	3017	150	0.67
25	1	25.8	39.3	3.9	566	15.6	2263	205	0.81
32	1-1/4	32.5	46.0	2.6	377	10.4	1508	250	0.92

DATA SHEET

SAE 100 R5C HOSES

INNER TUBE:	Oil Resistant Synthetic Rubber
REINFORCEMENT:	One High Tensile Steel Wire Braid
COVER:	Impregnated textile braid (1T/B)
TEMP. RANGE	-40°C to +100°C



SIZE	I.D	OD	WORKING PRESSURE			BURSTING PRESSURE		
	MM	MM	MPA	BAR	PSI	MPA	BAR	PSI
3/16"	4.8	13.2	20.7	207	3000	82.8	828	12000
1/4"	6.3	14.8	20.7	207	3000	82.8	828	12000
5/16"	8	17.2	15.5	155	2250	62	620	9000
13/32"	10.4	19.5	13.8	135	2000	55.2	552	8000
1/2"	12.7	23.4	12.1	121	1755	48.3	483	7020
5/8"	16	27.4	10.3	103	1495	41.4	414	5980
7/8"	22.2	31.4	5.5	55	800	22.1	221	3200
1 1/8"	28.6±0.3	38.1±0.3	4.3	43	625	17.2	172	2500
1 3/8"	34.9	44.5	3.4	34	500	13.8	138	2000
1-13/16"	46	56.4	2.4	24	350	9.7	97	1400
2-3/8"	60.3	73	2.4	24	350	9.7	97	1400
3"	76.2	90.5	1.4	14	200	5.5	55	800

DATA SHEET

SAE 100 R6 DIN EN854

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	One high tensile fiber braid
COVER:	Abrasion and weather resistant synthetic rubber
TEMP. RANGE	-40°C to +100°C



SIZE	I.D	OD	WORKING PRESSURE			BURSTING PRESSURE		
	MM	MM	MPA	BAR	PSI	MPA	BAR	PSI
3/16" *	4.8-5.4	10.9-11.9	3.5	35	510	14	140	2040
1/4" *	6.1-6.9	12.5-13.5	2.8	28	410	11.2	112	1640
5/16" *	7.7-8.4	14.1-15.1	2.8	28	410	11.2	112	1640
3/8" *	9.5-10.3	15.7-16.7	2.8	28	410	11.2	112	1640
1/2" *	12.6-13.4	19.4-20.4	2.8	28	410	11.2	112	1640
5/8" *	15.8-16.6	22.8-23.8	2.4	24	350	9.6	96	1400
3/4" *	18.8-19.8	26.4-27.4	2.1	21	300	8.4	84	1200
7/8" *	21.8-22.8	29.7-30.7	2.1	21	300	8.4	84	1200
1" *	24.8-26.0	33.5-34.5	2.0	20	290	8.0	80	1160
1-1/8"	28.6-29.8	37.4-38.6	2.0	20	290	8.0	80	1160
1-1/4"	31.8-32.8	43.0-45	2.0	20	290	8.0	80	1160
1-3/8"	34.6-35.8	46-48	1.8	18	260	7.2	72	1040
1-1/2"	37.6-38.8	50.0-52.0	1.5	15	220	6.0	60	880
1-3/4"	44.6-45.8	55.0-57.0	1.5	15	220	6.0	60	880
2"	50.6-51.8	64.0-66.0	1.5	15	220	6.0	60	880
2-1/2"	63.6-65.8	78-80	1.5	15	220	6.0	60	880
3"	75.4-76.8	90.5-92.5	1.0	10	150	4.0	40	600

* Also Available in Smooth Cover

DATA SHEET

EN856 4SP

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four spirals of high tensile steel wire
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +100°C



DN	HOSE ID		WIRE OD	HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
10	3/8	9.5	17.5	21.4	44.5	6450	180	26000	180	0.78
13	1/2	12.7	20.2	24.0	41.5	6000	166	24000	230	0.89
16	5/8	15.9	23.8	28.2	35.0	5000	140	20000	250	1.11
19	3/4	19.0	28.2	32.2	35.0	5000	140	20000	300	1.59
25	1	25.4	35.5	39.7	28.0	4000	112	16000	340	2.02
32	1-1/4	31.8	46.0	50.8	21.0	3000	84	12000	460	3.32
38	1-1/2	38.1	52.4	57.7	18.5	2700	74	10800	560	3.7
51	2	50.8	65.3	69.6	16.5	2400	66	9600	660	5.47

* Also Available in Smooth Cover

DATA SHEET

EN856 4SH

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four spirals of high tensile steel wire
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +100°C



DN	HOSE ID		WIRE OD	HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
19	3/4	19.0	28.4	32	42.0	6000	168	24000	280	1.61
25	1	25.4	35.2	38.6	38.0	5500	152	22000	340	2.00
31	1-1/4	31.8	41.9	45.8	32.5	4700	130	18800	460	2.46
38	1-1/2	38.1	48.8	53.3	29.0	4200	116	16800	560	3.35
51	2	50.8	63.2	68.1	25.0	3600	100	14400	700	4.98

* Also Available in Smooth Cover

DATA SHEET

SAE 100 R12

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four spirals of high tensile steel wire
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +125°C



DN	HOSE ID		WIRE OD	HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
10	3/8	9.5	17.2	20.3	27.5	4000	110.3	16000	125	0.62
13	1/2	12.7	20.7	23.8	27.5	4000	110.3	16000	180	0.85
16	5/8	15.9	24.6	27.4	27.5	4000	110.3	16000	200	1.29
19	3/4	19.0	27.7	30.7	27.5	4000	110.3	16000	240	1.47
25	1	25.4	34.9	38.0	27.5	4000	110.3	16000	300	2.00
32	1-1/4	31.8	43.9	47.0	20.7	3000	82.7	12000	420	2.86
38	1-1/2	38.1	50.4	53.5	17.2	2500	68.9	10000	500	3.24
51	2	50.8	63.7	66.7	17.2	2500	68.9	10000	630	4.80

DATA SHEET

SAE 100 R13

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four or six spirals of high tensile steel wire
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +125°C



DN	HOSE ID		WIRE OD	HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
19	3/4	19.0	28.4	32.1	34.5	5000	138.0	20000	240	1.68
25	1	25.4	35.2	38.7	34.5	5000	138.0	20000	300	2.24
32	1-1/4	31.8	41.9	50.2	34.5	5000	138.0	20000	420	3.90
38	1-1/2	38.1	48.8	57.7	34.5	5000	138.0	20000	500	5.07
51	2	50.8	63.2	71.5	34.5	5000	138.0	20000	630	7.91

DATA SHEET

SAE 100 R15

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Four or six spirals of high tensile steel wire
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +125°C



DN	HOSE ID		HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
10	3/8	9.5	23.3	41.4	6000	165.5	24000	153	0.75
13	1/2	12.7	26.8	41.4	6000	165.5	24000	203	0.89
19	3/4	19.0	36.1	41.4	6000	165.5	24000	267	1.56
25	1	25.4	42.9	41.4	6000	165.5	24000	330	2.10
32	1-1/4	32.0	51.5	41.4	6000	165.5	24000	445	3.65
38	1-1/2	38.0	59.6	41.4	6000	165.5	24000	533	5.00

DATA SHEET

SAE 100 R16

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	Two high tensile steel wire braids
COVER:	Abrasion and Weather resistant synthetic Rubber
TEMPERATURE RANGE:	-40°C to +100°C



DN	HOSE ID		HOSE OD	WORKING PRESSURE		BURST PRESSURE		MINIMUM BEND RADIUS	WEIGHT
	Inch	MM	MM	MPA	PSI	MPA	PSI	MM	KG/M
6	1/4	6.4	13.4	34.5	5000	138	20000	50	0.27
8	5/16	7.9	15.0	29.3	4250	117	17000	55	0.35
10	3/8	9.5	17.4	27.5	4000	110	16000	65	0.42
13	1/2	12.7	20.6	24.0	3500	96	14000	90	0.52
16	5/8	15.9	23.8	19.0	2750	76	11000	100	0.63
19	3/4	19.0	27.8	15.5	2250	62	9000	120	0.81
25	1	25.4	35.9	13.8	2000	55	8000	150	1.17
32	1-1/4	31.8	43.6	11.2	1625	45	6500	210	1.49

DATA SHEET

SAE 100 R17

INNER TUBE:	Oil resistant synthetic rubber
REINFORCEMENT:	One or two high tensile steel wire braid
COVER:	Abrasion and Weather resistant synthatic Rubber
TEMP. RANGE	-40°C to +100°C



STANDARD	SIZE	I.D	OD	WORKING PRESSURE			BURSTING PRESSURE		
		MM	MM	MPA	BAR	PSI	MPA	BAR	PSI
R17 one wire	1/4"	6.3	12.7	22.5	225	3260	90	900	13040
	5/16"	8	15	21	210	3000	84	840	12000
	3/8"	9.5	16.5	21	210	3000	84	840	12000
	1/2"	12.7	20.8	21	210	3000	84	840	12000
R17 two wire	5/8"	15.9	24.7	25	250	3625	100	1000	14500
	3/4"	19	28.6	21.5	215	3120	86	860	12480
	1"	25.4	36.6	20.7	207	3000	82.8	828	12000

DATA SHEET

PVC MIXED RUBBER AIR/WATER HOSE

CHARACTERISTICS & APPLICATION:

Being made of high toughness PVC mixed rubber materials and high tensile strength polyester threads as its reinforcement, this hose can work under higher working pressure. With the features of light weight, wear resistance, erosion and hardening resistance, good flexibility and excellent adaptability to the extremely cold weather conditions, this hose can be widely used for some pneumatic tools, pneumatic washing apparatus, compressors, engine components, machinery service tools, pesticide spraying apparatus and civil engineering pneumatic hammers.

WORKING TEMPERATURE: -5°C-+65°C



ITEM NO.	BRITISH MEASUREMENT	METRIC MEASUREMENT			WORKING PRESSURE	BURSTING PRESSURE
		ID	OD	LENGTH		
	INCH	MM	MM	M/ROLL		
TRS-04-AH	1/4"	6	12	100	20	60
TRS-05-AH	5/16"	8	15	100	20	60
TRS-06-AH	3/8"	10	17	100	20	60
TRS-08-AH	1/2"	13	21	100	20	60
TRS-10-AH	5/8"	16	24	100	20	60
TRS-12-AH	3/4"	19	28	100	20	60
TRS-16-AH	1"	25	35	50	20	60
TRS-20-AH	1-1/4"	32	44	50	10	30
TRS-24-AH	1-1/2"	38	50	50	10	30
TRS-32-AH	2"	50	64	50	10	30

DATA SHEET

FUEL OIL HOSE

INNER TUBE:	Black, smooth, NBR rubber
REINFORCEMENT:	High tensile textile cord
COVER:	Black, smooth or wrapped synthetic rubber, abrasion, weather and oil mist resistant
APPLICATIONS:	In fuel systems like gasoline, diesel fuel, also suitable for loading and unloading tank cars, automobiles, oil refine and oil related industrial, etc.
TEMP. RANGE	-35°C to +100°C



PRODUCT CODE	HOSE I.D		HOSE OD	MAX W.P		MIN B.P.		WEIGHT	LENGTH
	MM	INCH		BAR	PSI	BAR	PSI		
TFS-04-FH	6	1/4"	13	20	300	60	900	0.15	50 / 100
TFS-05-FH	8	5/16"	15	20	300	60	900	0.21	50 / 100
TFS-06-FH	10	3/8"	18	20	300	60	900	0.27	50 / 100
TFS-08-FH	13	1/2"	21	20	300	60	900	0.35	50 / 100
TFS-10-FH	16	5/8"	25	20	300	60	900	0.50	50 / 100
TFS-12-FH	19	3/4"	29	20	300	60	900	0.61	50 / 100
TFS-16-FH	25	1	36	20	300	60	900	0.83	50 / 100

DATA SHEET

MULTIPURPOSE HOSE

INNER TUBE:	Black smooth synthetic rubber
REINFORCEMENT:	High tensile textile cord
COVER:	Black, ozone and aging resistant rubber compound
APPLICATIONS:	For transmission of air, water, oxygen, gasoline, diesel fuel etc... Suitable for low pressure painting.
TEMP. RANGE	-35°C to +100°C



PRODUCT CODE	HOSE I.D		HOSE OD	MAX W.P		MIN B.P.		WEIGHT	LENGTH
	MM	INCH	MM	BAR	PSI	BAR	PSI		
TFS-04-MP	6	1/4"	13	20	300	60	900	0.15	50 / 100
TFS-05-MP	8	5/16"	15	20	300	60	900	0.21	50 / 100
TFS-06-MP	10	3/8"	18	20	300	60	900	0.27	50 / 100
TFS-08-MP	13	1/2"	21	20	300	60	900	0.35	50 / 100
TFS-10-MP	16	5/8"	25	20	300	60	900	0.50	50 / 100
TFS-12-MP	19	3/4"	29	20	300	60	900	0.61	50 / 100
TFS-14-MP	22	7/8"	33	20	300	60	900	0.69	50 / 100
TFS-16-MP	25	1	36	20	300	60	900	0.83	50 / 100

DATA SHEET

TWIN WELDING HOSE

INNER TUBE:	EPDM/SBR blended, black and smooth
REINFORCEMENT:	Textile braided high tensile synthetic yarn
COVER:	EPDM/SBR blended, blue,red,green, smooth weather and ozone, abrasion resistant
APPLICATIONS:	For conveying welding gases
TEMP. RANGE	-40°C to +90°C

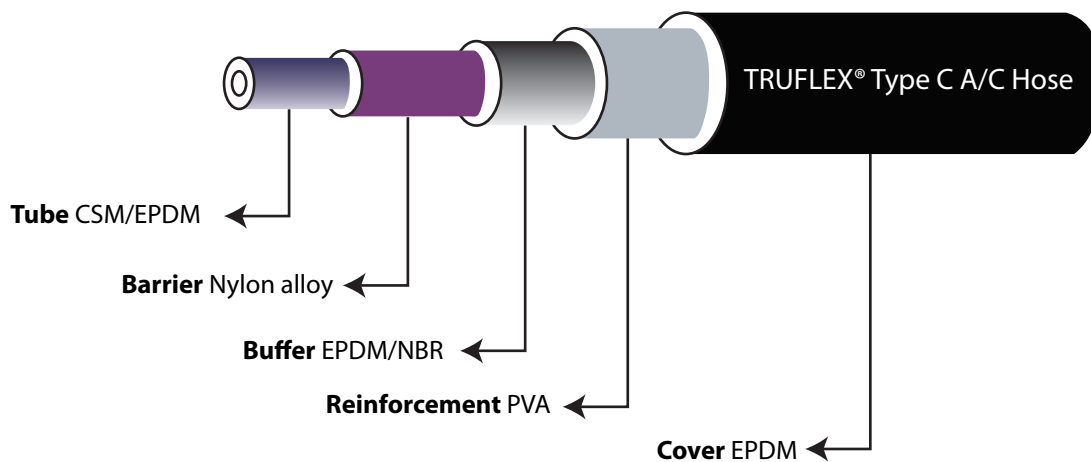


RED (ACETYLENE)					BLUE /GREEN (OXYGEN)				
HOSE I.D		HOSE OD	MAX W.P	MIN B.P.	HOSE I.D		HOSE OD	MAX W.P	MIN B.P.
MM	INCH	MM	BAR	BAR	MM	INCH	MM	BAR	BAR
6	1/4"	13	20	60	6	1/4"	13	20	60
8	5/16"	15	20	60	8	5/16"	15	20	60
10	3/8"	18	20	60	10	3/8"	18	20	60

DATA SHEET

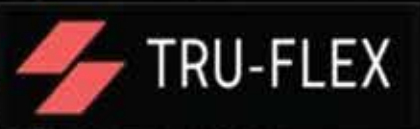
SAEJ2064 TYPE C AIR CONDITIONING HOSE

HOSE CONSTRUCTION	Tube: CSM/EPDM Barrier: Nylon alloy Buffer: EPDM/NBR Reinforcement: PVA Cover: EPDM
APPLICATION TEMPERATURE	-40°C to +135°C
LENGTH	50m or as requested
CERTIFICATE	ISO/TS 16949:2009
REFRIGERANT APPLIED	R 12, R134a
FEATURES	Pulse resistance, aging resistance, Ozone resistance, shock resistance and lower permeability.
APPLICATION	Air Conditioning Hose is widely used in the air conditioning system of vehicles, cars and domestic air conditioning



AIR CONDITIONING HOSE (A20)

SPECIFICATION	I.D	O.D	WORK PRESSURE	BURST PRESSURE
INCH	MM	MM	MPA	MPA
5/16"	8±0.4	19±0.5	3.5	21
13/32"	10±0.4	23±0.5	3.5	21
1/2"	13±0.4	25.4±0.5	3.5	22
5/8"	16±0.4	28.6±0.5	3.5	18



Marketed and Distributed by

AL Feel Trading LLC. Industrial Area-13 Sharjah, UAE
+971 65566172 | +971 554529490
info@alfeeltrading.com