Kays
TRADING
COMPANY LLC

AL DOBOWI
the future of motion

INTERTEK
ISO 9001:2008

Flexible Solutions

Hydraulic Hoses

www.aldobowi.com/kaysind/

Welcome

At Kays Trading, we have invested in facilities to provide a complete service solution for our valued customers. Here, we provide world-class quality Hoses and Fittings for all types of applications. The crimping of hoses takes place at our work-shop facility as well as onsite through our fleet of mobile workshops.

We are committed to provide our customers with a prompt and excellent service alongwith our World-class Quality products. Our Technical staff are among the best in the industry, having more than 10 years of industry specific experience.

Who we are

Kays Trading Company LLC is an Industrial Division of Al Dobowi Group. Al Dobowi Group is a leading name in the industry spread across the globe. It was established in 1976 in Dubai and is today one of the leading Automotive businesses in the Middle East. With global presence across four continents and a staff of over 2000, the Group is focussed on providing its clients with superior services and unique solutions.

The Group product portfolio includes leading brands of tyres, automotive batteries, traction batteries, lubricants, conveyor belt systems, technical rubber products, hoses and fittings.

The hoses division has invested in facilities to provide a complete service solution for its customers. The crimping of hoses takes place at its facility as well as onsite using the mobile workshops.

We offer wide range of products and solutions such as:

- Hydraulic Hoses
- Hydraulic Fittings
- Industrial Fittings
- Adapting Accessories
- Onsite Mobile Services

FACILITIES

Kays Trading has invested in facilities to provide a complete service solution for our valued customers. Here, we provide world-class quality Hoses and Fittings for all types of applications. The crimping of hoses takes place at our facility as well as onsite using the mobile workshops.

Workshop

Our workshop is fully equipped with cutting / crimping / testing facilities. The testing facility of upto 25000PSI is available. Highly qualified technicians having min. experience of 10 years +, Machinery is callibrated according to ISO standards on yearly basis

Mobile/ On-Site Facilities

We have a fleet of mobile vans that are fully equipped with stock & fittings & crimping facilities. They are just one phone call away from your doorsteps.

Warehouse, Storage & Delivery

Our centralized warehouse is located in the middle of Al Quoz Industrial Area, Dubai which can be easily approached from the main road. Ample parking space is available for deliveries.

We take enough care to store our goods to protect them from any damage. Each roll of a hose is stacked carefuly in separate bin, which ensures that our goods are stored safely.

Delivery & Packaging

We take extra care in delivering your goods and make sure that they reach you in safely and in crisp condition. We pack them carefully in individual packaging and ensure that the hoses are not bent at an ackward angle which might result in damage.

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HOSES AND HOSE ASSEMBLIES

SAE Recommended Practice

1. Scope

Hose (also includes hose assemblies) has a finite life and there are a number of factors which will reduce its life.

This recommended practice is intended as a guide to assist system designers and/or users in the selection, installation, and maintenance of hose. The designers and users must make a systematic review of each application and then select, install, and maintain the hose to fulfill the requirements of the application. The following are general guidelines and are not necessarily a complete list.

2. Selection

The following is a list of factors which must be considered before final hose selection can be made.

2.1 Pressure - After determining the system pressure, hose selection must be made so that the recommended maximum operating pressure is equal to or greater than the system pressure. Surge pressures higher than the maximum operating pressure will shorten hose life and must be taken into account by the hydraulic designer.

2.2 Suction - Hoses used for suction applications must be selected to insure the hose will withstand the negative pressure of the system.

2.3 Temperature - Care must be taken to insure that fluid and ambient temperatures, both static and transient, do not exceed the limitations of the hose. Special care must be taken when routing near hot manifolds.

2.4 Fluid Compatibility - Hose selection must assure compatibility of the hose tube, cover, and fittings with fluid used. Additional caution must be observed in hose selection for gaseous applications.

2.5 Size - Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage to the hose due to heat generation or excessive turbulence.

2.6 Routing - Attention must be given to optimum routing to minimize inherent problems.

2.7 Environment - Care must be taken to insure that the hose and fittings are either compatible with or protected from the environment to which they are exposed. Environmental conditions such as ultraviolet light, ozone, salt water, chemicals, and air pollutants can cause degradation and premature failure and, therefore, must be considered.

2.8 Mechanical Loads - External forces can significantly reduce hose life. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adapters may be required to insure no twist is put in the hose. Unusual applications may require special testing prior to hose selection.

2.9 Abrasion - While a hose is designed with a reasonable level of abrasion resistance, care must be taken to protect the hose from excessive abrasion which can result in erosion, snagging and cutting of the hose cover. Exposure of the reinforcement will significantly accelerate hose failure.

2.10 Proper End Fitting - Care must be taken to insure proper compatibility exists between the hose and coupling selected based on the manufacturer's recommendations substantiated by testing to industry standards such as SAE J517d.

2.11 Length - When establishing proper hose length, motion absorption, hose length changes due to pressure, as well as hose and machine tolerances must be considered.

2.12 Specifications and Standards - When selecting hose, government, industry, and manufacturer's specifications and recommendations must be reviewed and applicable.

2.13 Hose Cleanliness - Hose components vary in cleanliness levels. Care must be taken to insure that the assemblies selected have an adequate level of cleanliness for the application. 2.14 Electrical Conductivity - Certain applications require that the hose be non-conductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Hose and fittings must be chosen with these needs in mind.

3. Installation

After selection of proper hose, the following factors must be considered by the installer.

3.1 Pre-Installation Inspection - Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, and length. In addition, the hose must be examined for cleanliness, I.D. obstructions, blisters, loose cover, or any other visual defects.

3.2 Follow Manufacturers' Assembly Instructions.

3.3 Minimum Bend Radius - Installation at less than minimum bend radius may significantly reduce hose life. Particular attention must be given to preclude sharp bending at the hose/fitting juncture.

3.4 Twist Angle and Orientation - Hose installations must be such that relative motion of machine components produces bending of the hose rather than twisting.

3.5 Securement - In many applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not produce additional stress or wear points.

3.6 Proper Condition of Ports - Proper physical installation of the hose requires a correctly installed port connection while insuring that no twist or torque is put into the hose.

3.7 Avoid External Damage - Proper installation is not complete without insuring tensile loads, side loads, kinking, flattening,

potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated.

3.8 System Check Out - After completing the installation, all air entrapment must be eliminated and the system pressurized to the maximum system pressure and checked for proper function and freedom from leaks.

Note: Avoid potential hazardous area while testing.

4. Maintenance

Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program should include the following as a minimum.

4.1 Hose Storage - Hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive material. Storage areas should be relatively cool and dark, and free of dust, dirt, dampness and mildew.

4.2 Visual Inspection - Any of the following conditions requires replacement of the hose:

a. Leaks at fitting or in hose. (Leaking fluid is a fire hazard).
b. Damaged, cut or abraded cover. (Any reinforcement exposed).
c. Kinked, crushed, flattened or twisted hose.
d. Hard, stiff, heat cracked or charred hose.
e. Blistered, soft degraded or loose cover.
f. Cracked, damaged, or badly corroded fittings.
g. Fitting Slippage on hose.

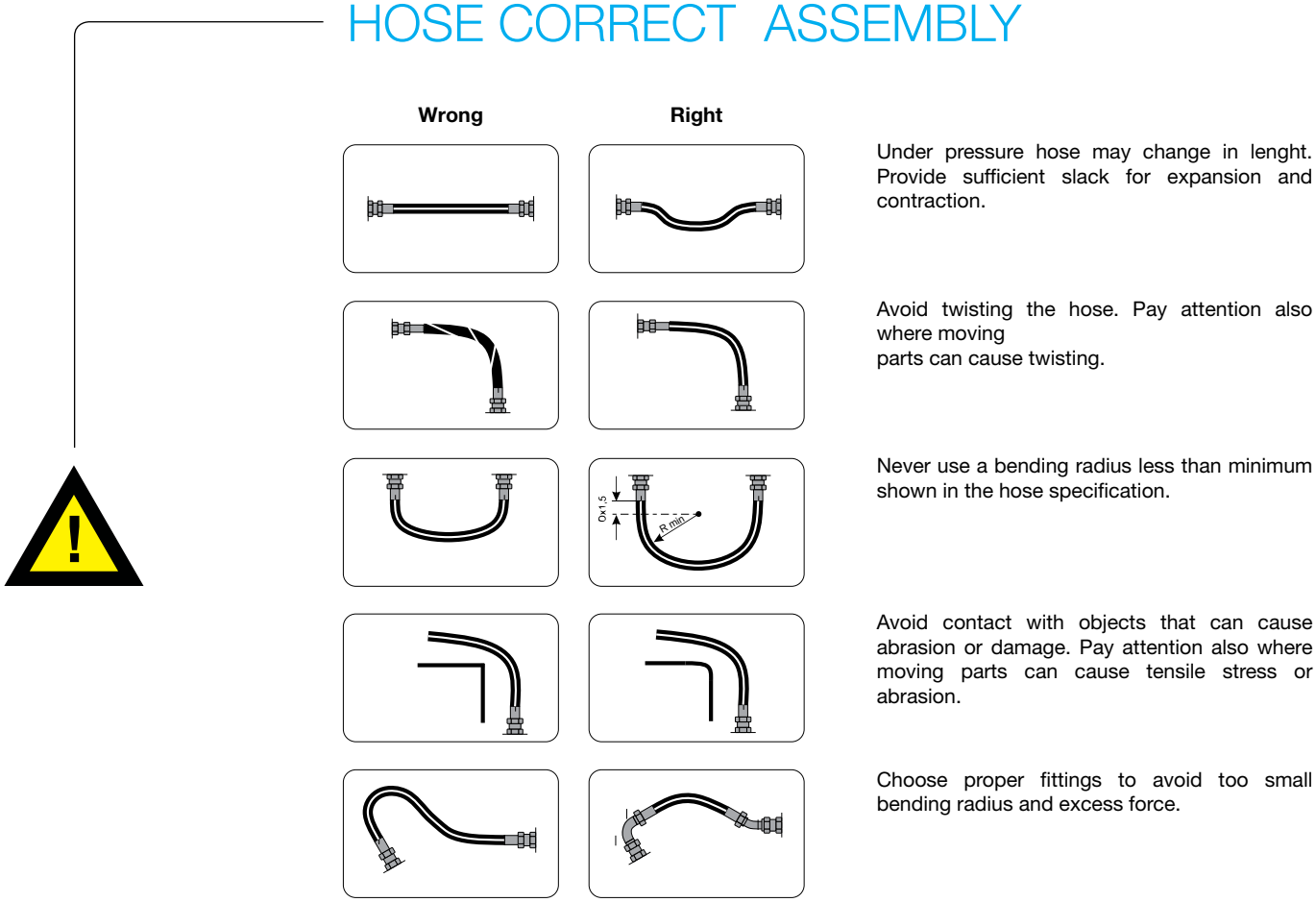
4.3 Visual Inspection - The following items must be tightened, repaired, or replaced as required:

a. Leaking port conditions.
b. Clamps, guards, shields.
c. Remove excessive dirt buildup.
d. System fluid level, fluid type, and any air entrapment.

4.4 Functional Test - Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Note: Avoid potential hazardous areas while testing.

4.5 Replacement Intervals - Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable down time, damage, or injury risk.

HOSE CORRECT ASSEMBLY



Under pressure hose may change in lenght. Provide sufficient slack for expansion and contraction.

Avoid twisting the hose. Pay attention also where moving
parts can cause twisting.

Never use a bending radius less than minimum shown in the hose specification.

Avoid contact with objects that can cause abrasion or damage. Pay attention also where moving parts can cause tensile stress or abrasion.

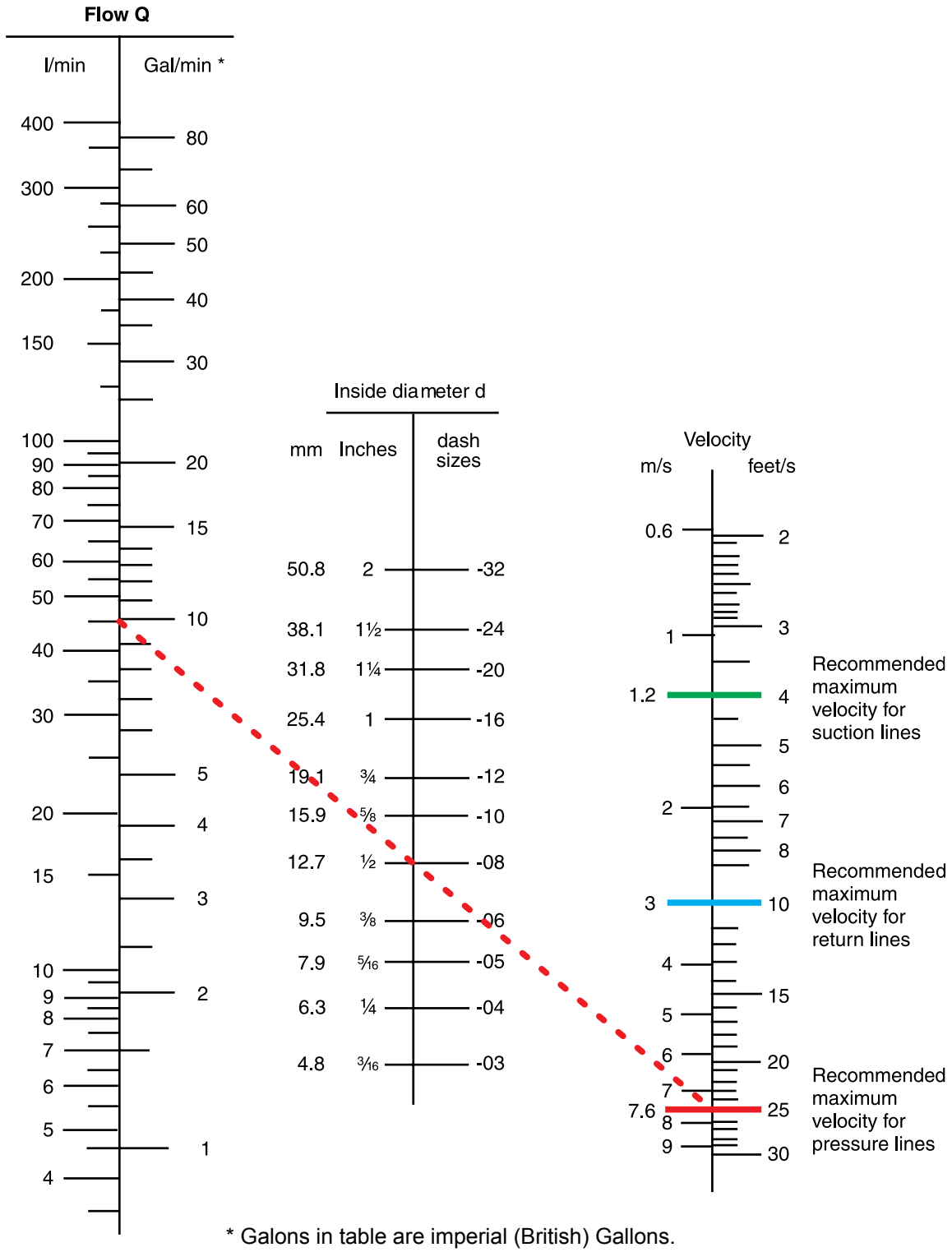
Choose proper fittings to avoid too small bending radius and excess force.

HOSE WORKING PRESSURE

HOSE TYPE		HOSE DIMENSION															
		Size	-2	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	-64
MEET OR EXCEED		Inch	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
DIN EN	SAE	DN	3	5	6	8	10	12	16	19	25	31	38	51	63	76	102
DIN EN 853 1SN	SAE 100 R1AT	Bar	-	250	225	215	180	160	130	105	88	63	50	40	-	-	-
		Psi	-	3600	3250	3100	2600	2300	1850	1500	1250	900	700	550	-	-	-
DIN EN 857 1SC		Bar	-	-	225	215	180	160	130	105	88	-	-	-	-	-	-
		Psi	-	-	3250	3100	2600	2300	1850	1500	1250	-	-	-	-	-	-
DIN EN 853 2SN	SAE 100 R2AT	Bar	-	415	400	350	330	275	250	215	165	125	90	80	-	-	-
		Psi	-	6000	5800	5050	4750	3950	3600	3100	2350	1800	1300	1150	-	-	-
DIN EN 857 2SC		Bar	-	-	400	350	330	275	250	215	165	-	-	-	-	-	-
		Psi	-	-	5800	5050	4750	3950	3600	3100	2350	-	-	-	-	-	-
DIN EN 854	SAE 100 R4	Bar	-	-	-	-	-	-	-	21	17	14	10,5	7	-	4	2,5
		Psi	-	-	-	-	-	-	-	300	200	200	150	100	-	50	36
DIN EN 854	SAE 100 R5	Bar	-	-	210	210	13/32" 157	140	5/8" 122	-	7/8" 56	1-1/8" 43	1-3/8" 35	1-13/16" 24	2-3/8" 24	-	-
		Psi	-	-	3000	3000	2250	2000	1750	-	800	600	500	300	300	-	-
DIN EN 856 4SP		Bar	-	-	-	-	445	415	350	350	280	210	185	165	-	-	-
		Psi	-	-	-	-	6450	6000	5050	5050	4050	3000	2650	2350	-	-	-
DIN EN 856 4SH		Bar	-	-	-	-	-	-	-	420	380	325	290	250	-	-	-
		Psi	-	-	-	-	-	-	-	6050	5500	4700	4200	3600	-	-	-
DIN EN 854	SAE 100 R6	Bar	-	-	28	28	28	28	24	21	-	-	-	-	-	-	-
		Psi	-	-	400	400	400	400	300	300	-	-	-	-	-	-	-
DIN EN 855 R7	SAE 100 R7	Bar	-	210	192	175	157	140	105	87	70	-	-	-	-	-	-
		Psi	-	3000	2750	2500	2250	2000	1500	1250	1000	-	-	-	-	-	-
DIN EN 855 R8	SAE 100 R8	Bar	-	350	350	-	280	245	192	-	-	-	-	-	-	-	-
		Psi	-	5050	5050	-	4050	3550	2750	-	-	-	-	-	-	-	-
DIN EN 856 R13	SAE 100 R13	Bar	-	-	-	-	-	-	-	350	350	350	350	350	-	-	-
		Psi	-	-	-	-	-	-	-	5050	5050	5050	5050	5050	-	-	-
	SAE 100 R14	Bar	275	190	180	175	165	120	105	86	60	-	-	-	-	-	-
		Psi	3950	2750	2600	2500	2350	1700	1500	1200	850	-	-	-	-	-	-
DIN EN 856 R15	SAE 100 R15	Bar	-	-	-	-	420	420	-	420	420	420	420	-	-	-	-
		Psi	-	-	-	-	6050	6050	-	6050	6050	6050	6050	-	-	-	-
	SAE 100 R16	Bar	-	-	350	297	280	245	192	157	140	113	-	-	-	-	-
		Psi	-	-	5050	4300	4050	3550	2750	2250	2000	-	-	-	-	-	-
	SAE 100 R17	Bar	-	-	210	210	210	210	210	210	210	-	-	-	-	-	-
		Psi	-	-	3000	3000	3000	3000	3000	3000	3000	-	-	-	-	-	-

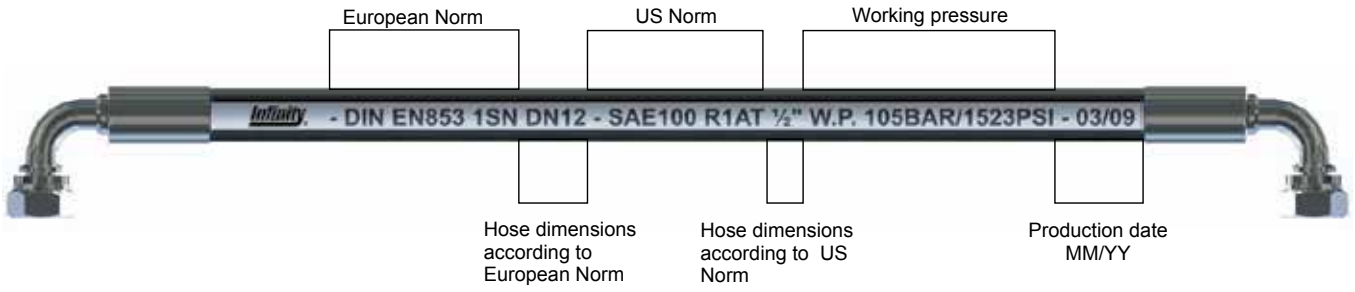
1 bar = 14,503 pound per square inch (PSI)

FLOW / VELOCITY NORMOGRAM



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

HOSE IDENTIFICATION MARKING



EN853 1SN / SAE 100 R1AT

Construction	Application
Synthetic rubber inner tube One high tensile steel wire braid Synthetic rubber cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water.

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE SAE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R1AT-03	-3	3/16"	5	12,5	90	250	3600	1000	14500	0,20
R1AT-04	-4	1/4"	6	14,1	100	225	3250	900	13050	0,25
R1AT-05	-5	5/16"	8	15,7	115	215	3100	850	12300	0,31
R1AT-06	-6	3/8"	10	18,1	130	180	2600	720	10400	0,36
R1AT-08	-8	1/2"	12	21,5	180	160	2300	640	9250	0,45
R1AT-10	-10	5/8"	16	24,7	200	130	1850	520	7500	0,52
R1AT-12	-12	3/4"	19	28,6	240	105	1500	420	6050	0,65
R1AT-16	-16	1"	25	36,6	300	88	1250	350	5050	0,91
R1AT-20	-20	1-1/4"	31	44,8	420	63	900	250	3600	1,30
R1AT-24	-24	1-1/2"	38	52	500	50	700	200	2900	1,70
R1AT-32	-32	2"	51	65,9	630	40	550	160	2300	2,00

Size : hose internal diameter according to SAE J517
Inch : hose internal diameter in inches
DN : nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

EN 853 2SN / SAE 100 R2AT

Construction	Application
Synthetic rubber inner tube Two high tensile steel wire braid Synthetic rubber cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water.

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water:
up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R2AT-03	-3	1/4"	6	14,1	90	415	6000	1650	23900	0,32
R2AT-04	-4	5/16"	8	15,7	100	400	5800	1600	23200	0,36
R2AT-05	-5	3/8"	10	17,3	115	350	5050	1400	20300	0,45
R2AT-06	-6	1/2"	12	19,7	125	330	4750	1320	19100	0,54
R2AT-08	-8	5/8"	16	23,1	180	275	3950	1100	15950	0,68
R2AT-10	-10	3/4"	19	26,3	205	250	3600	1000	14500	0,80
R2AT-12	-12	1"	25	30,2	240	215	3100	850	12300	0,94
R2AT-16	-16	1-1/4"	31	38,9	300	165	2350	650	9400	1,35
R2AT-20	-20	1-1/2"	38	49,6	420	125	1800	500	7250	2,15
R2AT-24	-24	2"	51	56	500	90	1300	360	5200	2,65
R2AT-32	-32	2"	51	68,6	630	80	1150	320	4600	3,42

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN854 / SAE 100 R5

Construction	Application
Synthetic rubber inner tube Textile braid and high tensile steel wire braid Oil and weather resistant synthetic rubber impregnated cotton braid cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water.

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R5-04	-4	3/16"	5	13,7	75	210	3000	840	12150	0,24
R5-05	-5	1/4"	6,3	15,3	85	210	3000	840	12150	0,28
R5-06	-6	5/16"	8	17,6	100	157	2250	630	9100	0,35
R5-08	-8	13/32"	11	20	115	140	2000	560	8100	0,38
R5-10	-10	1/2"	13	24	140	122	1750	490	7100	0,51
R5-16	-16	7/8"	22	32,2	185	56	800	224	3200	0,70
R5-20	-20	1-1/8"	29	38,9	230	43	600	175	2500	0,80
R5-24	-24	1-3/8"	35	45,2	265	35	500	140	2000	0,93
R5-32	-32	1-13/16"	46	57,6	335	24	300	98	1400	1,32
R5-40	-40	2-3/8"	60	74,2	610	24	300	98	1400	2,96

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 856 4SP

Construction	Application
Synthetic rubber inner tube Four high tensile steel wire spirals Synthetic rubber cover	High pressure hydraulic system with extreme high pressure peack. Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
4SP-06	-6	3/8”	10	22,2	180	445	6450	1780	25800	0,75
4SP-08	-8	1/2”	12,5	25,4	230	415	6000	1660	24050	0,89
4SP-10	-10	5/8”	16	29	250	350	5050	1400	20300	1,10
4SP-12	-12	3/4”	19	33	300	350	5050	1400	20300	1,50
4SP-16	-16	1”	25	40,9	340	280	4050	1120	16200	2,00
4SP-20	-20	1-1/4”	31	52,4	460	210	3000	840	12150	3,00
4SP-24	-24	1-1/2”	38	58,8	560	185	2650	740	10700	3,40
4SP-32	-32	2”	51	71,4	660	165	2350	660	9550	4,35

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 856 4SH

Construction	Application
Synthetic rubber inner tube Four high tensile steel wire spirals Synthetic rubber cover	High pressure hydraulic system with extreme high pressure peack. Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water.

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
4SH-12	-12	3/4"	19	33	280	420	6050	1680	24350	1,70
4SH-16	-16	1"	25	39,9	340	380	5500	1520	22000	2,50
4SH-20	-20	1-1/4"	31	47,1	460	325	4700	1300	18850	3,00
4SH-24	-24	1-1/2"	38	55,1	560	290	4200	1160	16800	3,60
4SH-32	-32	2"	51	69,7	700	250	3600	1000	14500	5,00

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 856 R13 / SAE 100 R13

ISOBARIC 350 BAR

Construction	Application
Synthetic rubber inner tube Four or six high tensile steel wire spirals Synthetic rubber cover	High pressure hydraulic system with extreme high pressure peack. Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R13-12	-12	3/4"	19	33,2	240	350	5050	1400	20300	2,10
R13-16	-16	1"	25	39,8	300	350	5050	1400	20300	2,88
R13-20	-20	1-1/4"	31	51,3	420	350	5050	1400	20300	4,20
R13-24	-24	1-1/2"	38	58,8	500	350	5050	1400	20300	5,00
R13-32	-32	2"	51	72,7	640	350	5050	1400	20300	7,00

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 856 R15 / SAE 100 R15

ISOBARIC 420 BAR

Construction	Application
Synthetic rubber inner tube Four or six high tensile steel wire spirals Synthetic rubber cover	High pressure hydraulic system with extreme high pressure peack. Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R15-06	-6	3/8"	10	23,3	150	420	6050	1680	24350	0,80
R15-08	-8	1/2"	13	26,8	200	420	6050	1680	24350	0,95
R15-12	-1	23/4"	19	36,1	265	420	6050	1680	24350	1,85
R15-16	-1	61"	25	42,9	330	420	6050	1680	24350	2,90
R15-20	-20	1-1/4"	31	51,5	445	420	6050	1680	24350	4,20
R15-24	-24	1-1/2"	38	59,6	530	420	6050	1680	24350	5,60

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 855 R7 / SAE 100 R7 TWIN

Construction	Application
Thermoplastic inner tube Synthetic fiber braid reinforcement Thermoplastic cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water.

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R7-03T	-3	3/16"	5	11,4	90	210	3000	840	12150	0,07
R7-04T	-4	1/4"	6	13,7	100	192	2750	770	11150	0,09
R7-05T	-5	5/16"	8	15,6	115	175	2500	700	10150	0,13
R7-06T	-6	3/8"	10	18,4	125	157	2250	630	9100	0,16
R7-08T	-8	1/2"	12	22,5	180	140	2000	560	8100	0,22
R7-10T	-10	5/8"	16	25,8	205	105	1500	420	6050	0,28
R7-12T	-12	3/4"	19	28,6	240	87	1250	350	5050	0,33
R7-16T	-16	1"	25	36,7	300	70	1000	280	4050	0,40

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 855 R7 / SAE 100 R7

Construction	Application
Thermoplastic inner tube Synthetic fiber braid reinforcement Thermoplastic cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water.

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R7-03	-3	3/16"	5	11,4	90	210	3000	840	12150	0,07
R7-04	-4	1/4"	6	13,7	100	192	2750	770	11150	0,09
R7-05	-5	5/16"	8	15,6	115	175	2500	700	10150	0,13
R7-06	-6	3/8"	10	18,4	125	157	2250	630	9100	0,16
R7-08	-8	1/2"	12	22,5	180	140	2000	560	8100	0,22
R7-10	-10	5/8"	16	25,8	205	105	1500	420	6050	0,28
R7-12	-12	3/4"	19	28,6	240	87	1250	350	5050	0,33
R7-16	-16	1"	25	36,7	300	70	1000	280	4050	0,40

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 855 R8 / SAE 100 R8

Construction	Application
Thermoplastic inner tube Synthetic fiber braid reinforcement Thermoplastic cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R8-03	-3	3/16"	5	14,6	90	350	5050	1400	20300	0,09
R8-04	-4	1/4"	6	16,8	100	350	5050	1400	20300	0,10
R8-06	-6	3/8"	10	20,3	125	280	4050	1120	16200	0,18
R8-08	-8	1/2"	12	24,6	180	245	3550	980	14200	0,22
R8-10	-10	5/8"	16	29,8	205	192	2750	770	11150	0,31

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 854 / SAE 100 R4

Construction	Application
Synthetic rubber inner tube Two high resistance textile braids additionally reinforced with an helical steel wire Synthetic rubber cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range
Hydraulic oils: -40°C to +100°C (-40°F to +212°F) Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R4-12	-12	3/4"	19	34,9	125	21	300	84	1200	0,92
R4-16	-16	1"	25	41,3	150	17	200	70	1000	1,10
R4-20	-20	1-1/4"	32	50,8	200	14	200	56	800	1,30
R4-24	-24	1-1/2"	38	57,2	255	10,5	150	42	600	1,80
R4-32	-32	2"	51	69,9	300	7	100	28	400	2,23
R4-48	-48	3"	76	95,3	460	4	50	16	200	4,25
R4-64	-6	44"	102	120,7	610	2,5	36	10	100	5,60

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

DIN EN 854 / SAE 100 R6

Construction	Application
Synthetic rubber inner tube High resistance textile braids additionally reinforcement Synthetic rubber cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R6-04	-4	1/4"	6,3	13,5	65	28	400	112	1600	0,13
R6-05	-5	5/16"	8	15,1	75	28	400	112	1600	0,15
R6-06	-6	3/8"	10	16,7	75	28	400	112	1600	0,18
R6-08	-8	1/2"	13	20,6	100	28	400	112	1600	0,26
R6-10	-10	5/8"	16	23,8	125	24	300	98	1400	0,31
R6-12	-12	3/4"	19	27,8	150	21	300	64	900	0,40
R6-14	-14	7/8"	22							
R6-16	-16	1"	25.4							

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

SAE 100 R14

Construction	Application
Polytetrafluorethylene (PTFE) inner tube Stainless steel wire braid cover	Suitable for use with mineral oil, biological oil, polyglycol base oils, water-oil emulsion and water

Temperature range

Hydraulic oils: -50°C to +200°C (-58°F to +392°F)
Polyglicol base oils, water-oil emulsion and water: up tp +85°C (+ 185°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure		Weight
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi	Kg/m
R14-02	-2	1/8"	3	6,3	40	275	3950	1100	15950	0,07
R14-03	-3	3/16"	5	7,6	55	190	2750	760	11000	0,07
R14-04	-4	1/4"	6	8,8	75	180	2600	720	10400	0,09
R14-05	-5	5/16"	8	11	100	175	2500	700	10150	0,13
R14-06	-6	3/8"	10	12,1	110	165	2350	660	9550	0,15
R14-08	-8	1/2"	12	15,7	140	120	1700	480	6950	0,21
R14-10	-10	5/8"	16	19,3	165	105	1500	420	6050	0,26
R14-12	-12	3/4"	19	22,2	200	86	1200	344	4950	0,32
R14-16	-16	1"	25	29,1	300	60	850	240	3450	0,45

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

1 bar = 14,503 pound per square inch (PSI)

J2AT 10000 PSI

Construction	Application
Synthetic rubber inner tube Two high tensile steel wire braid Synthetic rubber cover Cover: Black oil and abrasion resistant	Hydraulic jack applications Meets Matrial Handling institute specification for hydraulic hose and assemblies used with jacking systems. 10,000 PSI Static Pressure Only.

Temperature range
Hydraulic oils: -40°C to +120°C (-40°F to +120°F)

HOSE TYPE	Internal diameter			External diameter	Bend radius	Working pressure		Burst pressure	
	Size	Inch	DN	mm	mm	Bar	Psi	Bar	Psi
J2AT	-4	1/4”	6,3	17,3	102	690	10000	1380	20000
J2AT	-6	3/8"	10	18,8	127	690	10000	1380	20000

Size: hose internal diameter according to SAE J517
Inch hose internal diameter in inches
DN: nominal internal diameter according to manufacturing prescription (EN)

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Al Quoz Location Map