

Fluid Connectors

LIQUID CONNECTORS



Authorised Distributors :




Technical Tips

TECHNICAL TIPS FOR HOSE SELECTION AND MAINTENANCE

Before selecting a hose,  suggests considering the “**STAMP**” series of questions.

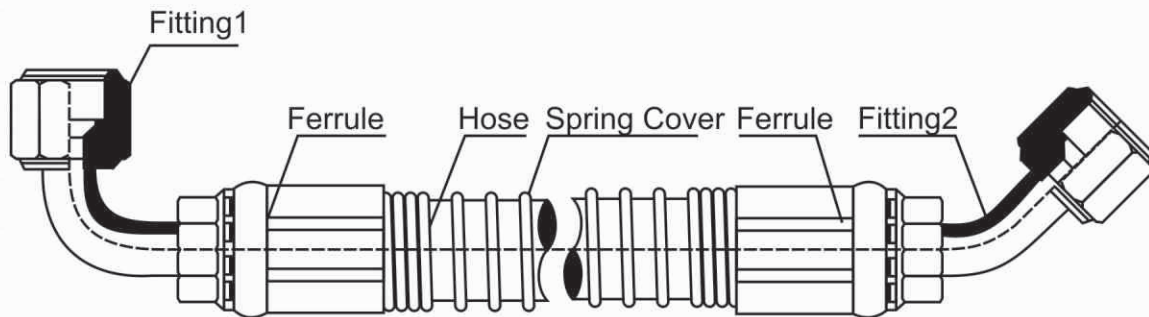
Size	What size hose and coupling end styles are needed to assure efficient safe transfer of product?
Temperature	What is the temperature of the material that will be transferred?
Application	What is the application the hose will be used in?
Material	What type of product will be transferred through the hose?
Pressure	What working pressure will the hose be used at? Does your hose require vacuum service?

Throughout this catalog,  has attempted to supply you with the product information needed to properly select a hose.

Hydraulic Hose Assemblies

Please use following format to order hose assemblies,
[Fitting1]/[Fitting2]X[Hose]X[Overall Length]/[Angle Displacement]+[Spring Cover]

For Example,
 Fitting 1, 3/4" 90° BSP Female 60° Cone Seat Seal
 Fitting 2, 45° BSP Female 60° Cone Seat Seal
 Hose, 20 MM SAE 100R1AT WP:105 Bar
 Assembly Length, 500mm
 Assembly Angle Displacement, 270°
 Assembly with Spring Cover



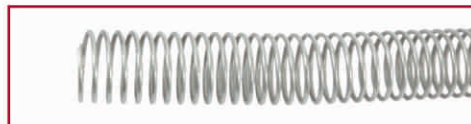
Hose Protection

Size
Inside
Diameter

Recommended
For

Asbestos
Braided
Yarn

Wire Armour



12 to 75 mm
(1/2" to 3")

Protection of hose
cover from abrasion
and gouges.

Spring Steel Wire
galvanised.

Asbestos Braid



6 to 50 mm
(1/4" to 2")

Protection of hose
from heat & molten
metal splashes

Asbestos
Braid

Spiral Guard



16 to 110 mm
(Outside
diameter)
(5/8" to 4.1/2")

Protection of hose
cover from abrasion and
impact. Bundling
hoses together

Polyethylene
plastic spiral.

Fire Sleeve



12 to 100 mm
(1/2" to 4")

Protection of hose
from heat & molten
metal splashes

Braided glass fibre
tubing coated with
silicon rubber

FITTINGS

Swaged Metric Standard Fittings

- ▶▶ Metric Flat Seal Fittings
- ▶▶ Metric Multiseal Fittings
- ▶▶ Metric 60° Cone Seal BSP Multiseal Fittings
 - ▶▶ Metric 74° Cone Seal Fittings
- ▶▶ Metric 24° Cone O-Ring Seal L.T. Fittings
- ▶▶ Metric 24° Cone O-Ring Seal H.T. Fittings

Swaged British Standard Fittings

- ▶▶ BSP O-Ring Seal Fittings
- ▶▶ BSP Flat Seal Fittings
- ▶▶ BSP Multiseal Fittings
- ▶▶ BSP 60° Cone Seal Fittings
 - ▶▶ BSPT Fittings

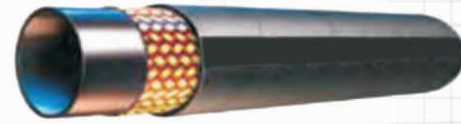
American Standard Fittings

- ▶▶ SAE O-Ring Seal Fittings
- ▶▶ ORFS Flat Seal Fittings
- ▶▶ NPSM 60° Cone Seal Fittings
- ▶▶ JIC 74° Cone Seal Fittings
 - ▶▶ NPTF Fittings
- ▶▶ SAE Flange L.T. Fittings



SAE 100 R1 AT (EN 853 1SN)

Main Applications Types : Low-medium pressure lines, return lines
Continuous Service : -40°F/+212°F -40°C/+100°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water, diesel fuel (up to 200°F 93°C)

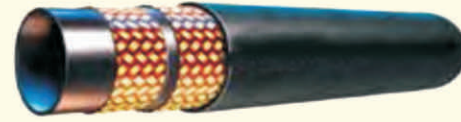


TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : One High Tensile Steel Braid
COVER : Environment Resistant Synthetic Rubber

HOSE SIZE				O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS	
DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
6	-4	6.4	1/4"	13.2	0.52	225	3260	900	13050	100	3.94
8	-5	7.9	5/16"	14.8	0.58	215	3110	860	12320	114	4.49
10	-6	9.5	3/8"	17.1	0.67	180	2610	720	10440	127	5.00
12	-8	12.7	1/2"	20.1	0.79	160	2320	640	9280	178	7.01
16	-10	15.9	5/8"	23.3	0.92	130	1880	520	7540	200	7.87
19	-12	19.0	3/4"	27.3	1.07	105	1520	420	6090	240	9.45
25	-16	25.4	1"	35.1	1.38	88	1270	350	5070	300	11.81
31	-20	31.8	1-1/4"	43.3	1.70	63	910	250	3620	419	16.50
38	-24	38.1	1-1/2"	49.7	1.96	50	720	200	2900	500	19.69
51	-32	50.8	2"	63.1	2.48	40	580	160	2320	630	24.80

SAE 100 R2 AT (EN 853 2SN)

Main Applications Types : Medium-high pressure lines
Continuous Service : -40°F/+212°F -40°C/+100°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water, diesel fuel (up to 200°F 93°C)



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Two High Tensile Steel Braid
COVER : Environment Resistant Synthetic Rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
6	-4	6.4	1/4"	14.7	0.58	400	5800	1600	23200	100	3.94
8	-5	7.9	5/16"	16.3	0.64	350	5070	1400	20300	114	4.49
10	-6	9.5	3/8"	18.7	0.74	330	4780	1320	19140	127	5.00
12	-8	12.7	1/2"	21.8	0.86	275	3980	1100	15950	178	7.01
16	-10	15.9	5/8"	25.0	0.98	250	3620	1000	14500	200	7.87
19	-12	19.0	3/4"	29.0	1.14	215	3110	860	12470	240	9.45
25	-16	25.4	1"	36.8	1.45	165	2390	650	9420	300	11.81
31	-20	31.8	1-1/4"	47.0	1.85	125	1810	500	7250	419	16.50
38	-24	38.1	1-1/2"	53.4	2.10	90	1300	360	5220	500	19.69
51	-32	50.8	2"	66.2	2.61	80	1160	320	4640	630	24.80

SAE 100 R3 (EN 854 R3)

Main Applications Types : Low pressure lines, return lines
Continuous Service : -40°F/+257°F -40°C/+125°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water, diesel fuel (up to 200°F 93°C)



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Two High Resistance Textile Braids
COVER : Environment Resistant Synthetic Rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
6	-4	6.4	1/4"	14.3	0.56	87	1250	348	5046	76	3.0
8	-5	7.9	5/16"	17.5	0.69	84	1218	336	4872	101	4.0
10	-6	9.5	3/8"	19.1	0.75	78	1131	312	4524	101	4.0
12	-8	12.7	1/2"	23.8	0.94	70	1015	280	4060	127	5.0
16	-10	15.9	5/8"	27.0	1.06	61	885	244	3538	140	5.5
19	-12	19.0	3/4"	31.8	1.25	52	754	208	3016	152	6.0
25	-16	25.4	1"	38.1	1.50	39	566	156	2250	203	8.0
31	-20	31.8	1-1/4"	44.5	1.75	26	377	104	1500	254	10.0
38	-24	38.1	1-1/2"	50.8	2.00	17	247	68	986	305	12.0
51	-32	50.8	2"	64.0	2.52	15	218	60	870	409	16.1

SAE 100 R6 (EN 854 R6)

Main Applications Types : Low-pressure lines, return lines, drain lines, push-on compatible applications
Continuous Service : -40°F/+257°F -40°C/+125°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water, diesel fuel (up to 200°F 93°C)



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : One Textile Braid
COVER : Environment Resistant Synthetic Rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
5	-3	4.8	3/16"	11.0	0.43	35	508	140	2030	51	2.0
6	-4	6.4	1/4"	12.6	0.50	28	406	112	1624	64	2.5
8	-5	7.9	5/16"	14.1	0.56	28	406	112	1624	76	3.0
10	-6	9.5	3/8"	15.8	0.62	28	406	112	1624	76	3.0
12	-8	12.7	1/2"	19.4	0.76	28	406	112	1624	101	4.0
16	-10	15.9	5/8"	23.0	0.91	24	348	96	1392	127	5.0
19	-12	19.0	3/4"	26.0	1.02	21	305	84	1218	152	6.0
25	-16	25.4	1"	32.0	1.26	15	210	60	870	178	7.0

EN 856 4SP

Main Applications Types : Very High pressure power lines
Continuous Service : -40°F/+212°F -40°C/+100°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and synthetic ester based oils (up to 212°F 100°C), glycols and polyglycols, minerals oils in aqueous emulsion, water



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Four High Tensile Steel Spirals
COVER : Environment Resistant Synthetic Rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
6	-4	6.4	1/4"	17.8	0.70	500	7250	2400	34800	100	3.94
10	-6	9.5	3/8"	21.3	0.84	460	6670	2100	30450	110	4.33
12	-8	12.7	1/2"	24.4	0.96	425	6160	1900	27550	120	4.72
16	-10	15.9	5/8"	28.1	1.11	400	5800	1600	23200	140	5.51
19	-12	19.0	3/4"	32.0	1.26	380	5510	1600	23200	170	6.69
25	-16	25.4	1"	39.0	1.54	320	4640	1400	20300	340	13.39
31	-20	31.8	1-1/4"	49.9	1.96	210	3040	1250	18120	460	18.11
38	-24	38.1	1-1/2"	57.0	2.24	185	2680	1000	14500	560	22.05
51	-32	50.8	2"	70.8	2.79	175	2530	1000	14500	660	25.98

EN 856 4SH

Main Applications Types : Very High pressure power lines
Continuous Service : -40°F/+212°F -40°C/+100°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and synthetic ester based oils, (up to 212°F 100°C) glycol and polyglycols, minerals oils in aqueous emulsion, water



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Four High Tensile Steel Spirals
COVER : Environment Resistant Synthetic Rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
19	-12	19.0	3/4"	32.0	1.26	420	6090	1750	25370	210	8.27
25	-16	25.4	1"	38.1	1.50	385	5580	1750	25370	220	8.66
31	-20	31.8	1-1/4"	45.2	1.78	350	5070	1400	20300	420	16.50
38	-24	38.1	1-1/2"	53.5	2.11	300	4350	1250	18120	560	22.05
51	-32	50.8	2"	68.0	2.68	250	3620	1000	14500	700	27.56

SUPER JACK HOSE (EXTREME STATIC PRESSURE)

Main Applications Types : Jacking systems
Continuous Service : -40°F/+212°F -40°C/+100°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Two High Tensile Steel Braids
COVER : Environment Resistant Synthetic Rubber

HOSE SIZE				O.D.	MAX W.P.	BURST PRESSURE	MIN. BEND RADIUS				
DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
6	-4	6.4	1/4"	14.8	0.58	690	10005	1380	20010	102	4.00
10	-6	9.5	3/8"	18.8	0.74	690	10005	1380	20010	127	5.00

SAE 100 R13 (EN 856 R13)

Main Applications Types : Heavy duty power lines, hydrostatic transmissions
Continuous Service : -40°F/+250°F -40°C/+121°C
Max Operating Temperature (Intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable and synthetic ester based oils (up to 212°F 100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Four High Tensile Steel Spirals (DN 19-31)
 Six High Tensile Steel Spirals (DN 38-51)
COVER : Environment Resistant Synthetic Rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
19	-12	19.0	3/4"	32.0	1.26	350	5070	1950	28270	240	9.45
25	-16	25.4	1"	39.2	1.54	350	5070	1650	23920	300	11.81
31	-20	31.8	1-1/4"	49.0	1.93	350	5070	1600	23200	420	16.50
38	-24	38.1	1-1/2"	57.8	2.28	350	5070	1600	23200	500	19.69
51	-32	50.8	2"	72.0	2.83	350	5070	1500	21750	630	24.80

SAE 100 R15

Main Applications Type : Heavy duty power lines, hydrostatic transmissions, in heavy duty environmental conditions, underground and open pit mining.
Continuous Service : -40°F/+250°F -40°C/+121°C
Maximum Operating Temperature (intermittent Service) : 257°F 125°C
Recommended Fluids : Mineral oils, vegetable oils and synthetic ester based oils (up to 212 degree f 100 degree c), glycols and polyglycols, mineral oils in aqueous emulsion, water.



TUBE : Oil Resistant Synthetic Rubber
REINFORCEMENT : Four High Tensile Steel Spirals (DN 19-25)
 Six High Tensile Steel Spirals (DN 31-38)
COVER : Synthetic Rubber with high ozone, weather & heat resistance

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
19	-12	19.0	3/4"	32.0	1.26	420	6090	1750	25370	265	10.43
25	-16	25.4	1"	38.1	1.50	420	6090	1750	25370	267	10.51
31	-20	31.8	1-1/4"	49.5	1.95	420	6090	1680	24360	267	10.51
38	-24	38.1	1-1/2"	57.8	2.28	420	6090	1680	24360	315	12.40

STEAM HOSE : IS 10655 TYPE 3

Main Applications Type : For super heated stem services in chemical plants, steel mills, refineries, shipyards and in all industries.
Maximum Operating Temperature : upto 208°C
Recommended Fluids : Hot water and steam



TUBE : Heat resistant epdm rubber
REINFORCEMENT : Two high tensile steel wire cords.
COVER : Abrasion, heat, steam, oil, ozone and weather resistant, pin-pricked special synthetic rubber

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
12	-8	12.7	1/2"	26.1	1.03	16	232	160	2320	178	7.0
16	-10	15.9	5/8"	29.2	1.15	16	232	160	2320	200	7.9
19	-12	19.0	3/4"	32.5	1.28	16	232	160	2320	241	9.5
25	-16	25.4	1"	38.4	1.51	16	232	160	2320	300	11.8
31	-20	31.8	1-1/4"	46.5	1.83	16	232	160	2320	420	16.5
38	-24	38.1	1-1/2"	53.3	2.0	16	232	160	2320	500	19.7
51	-32	50.8	2"	66.3	2.61	16	232	160	2320	635	25.0

SAE 100 R1 (PH 1) THERMOPLASTIC

Main Applications Type : Medium pressure hydraulic lines, suitable for agricultural machinery, earth moving, articulating & telescopic booms & material handling equipments.
Maximum Operating Temperature : -40°F/+212°F -40°C / +100°C
 Temperature not to exceed +70°C for air & water based fluids
Recommended Fluids : Hydraulic application with increase resistance to abrasion for use with petroleum, synthetic or water based fluids



TUBE : Thermoplastic elastomer
REINFORCEMENT : Single steel wire braid
COVER : Black color polyurethane

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
5	-3	4.8	3/16"	9.7	0.38	300	4300	1200	17200	30	1.2
6	-4	6.4	1/4"	11.7	0.46	275	3900	100	15600	40	1.6
8	-5	8.0	5/16"	13.6	0.535	240	3500	960	14000	50	2.0
10	-6	9.6	3/8"	15.2	0.60	220	3200	880	12800	60	2.4
12	-8	12.8	1/2"	18.4	0.725	175	2500	700	10000	75	3.0
16	-10	16.1	5/8"	22.2	0.875	140	2000	560	8000	110	4.4
20	-12	19.2	3/4"	25.7	1.01	115	1600	460	6400	150	6.0
25	-16	25.5	1"	32.4	1.275	100	1450	400	5800	230	9.2

SAE 100 R2 (PH 2) THERMOPLASTIC

Main Applications Type : High pressure hydraulic lines, suitable for agricultural machinery, earth moving, safety, rescue & material handling equipments.
Maximum Operating Temperature : -40°F/+212°F -40°C / +100°C
 Temperature not to exceed +70°C for air & water based fluids
Recommended Fluids : Hydraulic application with increase resistance to abrasion for use with petroleum, synthetic or water based fluids. can be used for industrial gases



TUBE : Thermoplastic elastomer
REINFORCEMENT : Double steel wire braid
COVER : Black color polyurethane

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
5	-3	4.8	3/16"	11.7	0.46	450	6500	1800	26000	80	3.2
6	-4	6.4	1/4"	13.7	0.54	430	6250	1720	25000	100	4.0
8	-5	8.0	5/16"	15.2	0.60	380	5500	1520	22000	110	4.4
10	-6	9.6	3/8"	17.5	0.69	330	4800	1320	19200	127	5.1
12	-8	12.8	1/2"	21.1	0.83	270	3900	1080	15600	178	7.1
16	-10	16.1	5/8"	24.8	0.975	210	3000	840	12000	203	8.1
20	-12	19.2	3/4"	28.4	1.12	175	2500	700	10000	250	10.0
25	-16	25.5	1"	34.5	1.36	150	2200	600	8800	305	12.2

SAE 100 R7 (PH 7) THERMOPLASTIC

Main Applications Type : Medium pressure hydraulic lines, suitable for agricultural machinery, earth moving, articulating & telescopic booms & material handling equipments.
Maximum Operating Temperature : -40°F/+250°F -40°C / +120°C
Recommended Fluids : Hydraulic application with increase resistance to abrasion for use with petroleum, synthetic or water based fluids. can be used for industrial gases



TUBE : Thermoplastic elastomer
REINFORCEMENT : One braid of synthetic fibre
COVER : Black color pin pricked-polyurethane

DN	dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch
5	-3	4.8	3/16"	10.3	0.405	210	3000	840	12000	25	1.0
6	-4	6.4	1/4"	12.4	0.490	190	2750	760	11000	32	1.3
8	-5	8.0	5/16"	14.2	0.560	175	2500	700	10000	45	1.8
10	-6	9.6	3/8"	15.7	0.620	155	2250	620	9000	55	2.2
12	-8	12.8	1/2"	19.3	0.760	140	2050	560	8200	77	3.1
16	-10	16.1	5/8"	23.1	0.910	105	1500	420	6000	110	4.4
20	-12	19.2	3/4"	26.4	1.040	90	1300	360	5200	140	5.6
25	-16	25.5	1"	33.3	1.310	70	1000	280	4000	200	8.0



HOSEXPERTS
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One Stop Solution For Flexible Hoses



Our unit is equipped with imported/indigenous machinery for manufacture of quality end connections with different threads as per international standards, as per the requirements of our customers & perfect crimping & testing upto 80,000 PSI. We have been providing hoses as standard equipment for various Diesel Engines, Tractors, Earth moving machineries, Glass Factories, Thermal Power Stations, etc. We also deal in imported S.S Corrugated hoses & Teflon hoses with S.S wire braiding, which we can provide as per your requirements.

As such, please register our name & do let us know about your requirements for anything in hoses & end connections. If you so desire, please do make it a point to visit our office for personal discussions about your requirements & we assure you that, a visit will satisfy you about what we have stated herein before. Your valued inquiries/orders will receive our prompt attention.

Assuring you of our best services always & look forward to serve your esteemed

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