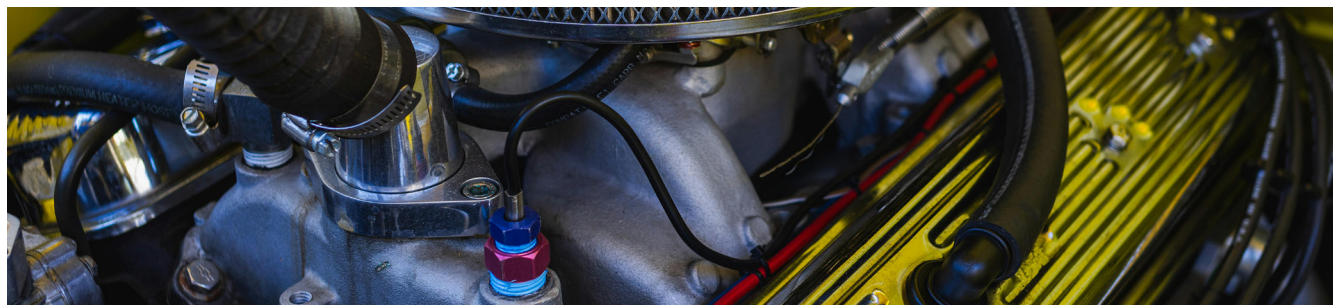


**INDUSTRIAL &
AUTOMOTIVE
RUBBER HOSE**



NISCHE
SOLUTIONS

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SYMBOL GUIDE

	Air		Delivery
	Water		Suction and Discharge
	Oil		Vibration
	Transmission Oil		Minimum Bending Radius (x times of ID)
	Gas		Minimum Working Temperature
	Sand/Cement		Maximum Working Temperature
	Stone		Safety Factor (x times of WP)
	Acid Solvent		Alkali Solvent



HOSE CONSTRUCTION



The tube is the innermost rubber element of the hose. For suitable service, the tube must be resistant to the materials it is intended to convey. The characteristics of the rubber compound from which the tube is made and the thickness of the tube are based on the service for which the hose is designed.

The Reinforcement can be textile, plastic, or metal, alone or in combination, built into the body of the hose to withstand internal pressures, external forces, or combination of both. The type and amount of reinforcing material used depends on the method of manufacture and on the service requirements.

The cover is the outer element of the hose. The prime function of the cover is to protect the reinforcement from damage and withstand the environment in which the hose will be used. Covers are designed for specific applications and can be made to be resistant to oils, acids, abrasion, flexing, sunlight, ozone, etc.

HOSE SELECTION

When choosing a hose, it is important to know the following basic information.

Inside Diameter (ID)	Generally used to refer to hose size.
Outside Diameter (OD)	Overall outside size of hose. Important when choosing couplings or clamps.
Thickness	Total thickness of the hose wall, including tube, reinforcement and cover.
Working Pressure (WP)	The maximum working pressure for which the hose is designed and to which it may be subjected.
Burst Pressure (BP)	The pressure which a new hose can resist before bursting.
Bending Radius	The minimum bending radius to which the hose can be curved.
Length (L)	Refers to the supplied length of hose. For coupled hoses, the length is counted from both coupling ends.
Product Standard or Certificate	Refers to any international standards, production certificates or other design regulations.
Operating Temperature	Temperature of media conveyed, and of the surrounding.
Aromatic Hydrocarbon Content	The maximum percentage amount of aromatic hydrocarbon in fluid to be transported.
External Conditions	The environment in which the hose is to be used e.g. climate and ozone conditions, abrasion, contact to oil or grease, etc.
Special Features	Special requirements e.g. spiral reinforcement or electric conductive wire.
Others	Marking, packaging, delivery or other requirements.

CARE, MAINTENANCE AND STORAGE*

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedure described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

SAFETY WARNING : Failure to properly follow the manufacturer's recommended procedures for the care, maintenance and storage of a particular hose might result in its failure to perform in the manner intended and might result in possible damage to property and serious bodily injury.

General Care and Maintenance of Hose

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe and loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

Storage

Rubber hose in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom. Since hose vary considerably in size, weight, and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as a hose having a heavier wall or a hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids. Shipping containers also afford some protection against ozone and sunlight. Certain rodents and insects will damage rubber hose, and adequate protection from them should be provided. Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humidity conditions in excess of 70%. The ideal temperature for the storage of rubber hose range from 50o to 70o F (10oC to 21oC) with a maximum limit of 100oF (38oC). If stored below 32oF (0oC), some rubber hose become stiff and would require warming before being placed in service. Rubber hose should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid the adverse effects of high ozone concentration, hose should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Rubber hose should not be stored in locations where the ozone level exceeds the National Institute of Occupational Safety and Health's upper limit of 0.10ppm. Exposure to direct or reflected sunlight, even through windows, should also be avoided. Uncovered rubber hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Rubber hose should be stored on a first-in, first-out basis, since even under the best conditions, an unusually long shelf life could deteriorate certain rubber products.

Proper storage of rubber hose could minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber hose. Proper storage conditions can enhance and extend substantially the ultimate life of rubber hose.

*(Referred from RMA Hose Handbook IP-2 Seventh Edition 2003)

INDUSTRIAL AIR HOSE

COMPRESSED AIR HOSE



Applications	For heavy-duty use with air compressors in quarries, service stations, construction sites, shipyards, factories and other general services.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Ozone and weather resistant synthetic rubber



Marking: AIR HOSE ISO 2398:2016 /1A / L-T / XX mm / 1.0 MPa / 10 bar

ISO 2398 : 2016
Type 1 Class A



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/4	6	6.3	12.5	10	150	40	600	100
5/16	8	8.0	15.0	10	150	40	600	100
3/8	9	9.5	16.5	10	150	40	600	100
1/2	12	12.7	20.0	10	150	40	600	100
5/8	16	16.0	24.0	10	150	40	600	50
3/4	19	19.0	28.0	10	150	40	600	50
1	25	25.4	36.0	10	150	40	600	50

Marking: AIR HOSE ISO 2398:2016 / 2A / L-T / XX mm / 1.6 MPa / WP 16 bar

ISO 2398 : 2016
Type 2 Class A



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/4	6	6.3	13.0	16	240	64	960	100
5/16	8	8.0	15.5	16	240	64	960	100
3/8	9	9.5	17.0	16	240	64	960	100
1/2	12	12.7	20.5	16	240	64	960	100
5/8	16	16.0	25.0	16	240	64	960	50
3/4	19	19.0	29.0	16	240	64	960	50
1	25	25.4	37.0	16	240	64	960	50

Also available in 30m, 50m lengths, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

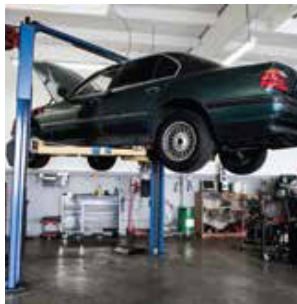
Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

COMPRESSED AIR HOSE

Air Hose



Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

Applications	For heavy-duty use with air compressors in quarries, service stations, construction sites, shipyards, factories and other general services.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Ozone and weather resistant synthetic rubber
Marking	AIR HOSE ISO 2398/A ID" WP XX PSI BP XX PSI



Air 30 Series



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/4	6	6.3	12.5	10	150	30	450	100
5/16	8	8.0	15.0	10	150	30	450	100
3/8	9	9.5	16.5	10	150	30	450	100
1/2	12	12.7	20.0	10	150	30	450	100
5/8	16	16.0	24.0	10	150	30	450	50
3/4	19	19.0	28.0	10	150	30	450	50
1	25	25.4	36.0	10	150	30	450	50

Air 45 Series



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/4	6	6.3	13.0	15	225	45	660	100
5/16	8	8.0	15.5	15	225	45	660	100
3/8	9	9.5	17.0	15	225	45	660	100
1/2	12	12.7	20.5	15	225	45	660	100
5/8	16	16.0	25.0	15	225	45	660	50
3/4	19	19.0	29.0	15	225	45	660	50
1	25	25.4	37.0	15	225	45	660	50

Also available in 30m, 50m lengths, please contact us

Air 60 Series



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/4	6	6.3	13.5	20	300	60	900	100
5/16	8	8.0	16.0	20	300	60	900	100
3/8	9	9.5	17.5	20	300	60	900	100
1/2	12	12.7	21.0	20	300	60	900	100
5/8	16	16.0	26.0	20	300	60	900	100
3/4	19	19.0	30.0	20	300	60	900	50
1	25	25.4	38.0	20	300	60	900	50

Also available in 30m, 50m, 100m lengths, please contact us

AIR HOSE - HEAVY DUTY



Applications	For heavy-duty use with air compressors in quarries, service stations, construction sites, shipyards, factories and other general services.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Ozone and weather resistant synthetic rubber
Marking	<i>AIR HOSE - HEAVY DUTY - BP 900PSI WP 300 PSI</i>



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1.1/4	32	32.0	44.0	20	300	60	900
1.1/2	38	38.0	51.0	20	300	60	900
2	51	50.8	65.0	20	300	60	900
2.1/2	63	63.5	80.0	20	300	60	900
3	76	76.2	92.0	20	300	60	900
4	102	101.6	118.0	20	300	60	900

AIR HOSE - HEAVY DUTY - (GREEN SERIES)



Applications	For heavy-duty use with air compressors in quarries, service stations, construction sites, shipyards, factories and other general services.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Ozone and weather resistant synthetic rubber
Marking	<i>AIR HOSE - HEAVY DUTY - BP 900PSI WP 300 PSI</i>



MADE WITH RECYCLED MATERIALS

Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1.1/4	32	32.0	44.0	20	300	60	900
1.1/2	38	38.0	51.0	20	300	60	900
2	51	50.8	65.0	20	300	60	900
2.1/2	63	63.5	80.0	20	300	60	900
3	76	76.2	92.0	20	300	60	900
4	102	101.6	118.0	20	300	60	900

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

JACK HAMMER HOSE

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose



Applications	For use with air compressors in construction works, quarries and many civil engineering and industrial applications.
Tube	Oil mist resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Ozone and weather resistant synthetic rubber
Marking	<i>JACK HAMMER HOSE 3/4" WP 300 PSI BP 900 PSI</i>



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/4	19	19.0	29.2	20	300	60	900	50

SUPER JACK HAMMER HOSE - HEAVY DUTY -



Applications	For heavy duty handling of oil-charge compressed air and high pressure compressor and other equipment used on public work sites.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Oil, ozone and weather resistant synthetic rubber
Marking	<i>SUPER JACK HAMMER HOSE 3/4" WP 300 PSI BP 900 PSI</i>



ISO 2398 : 2016
Type 2 Class C



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/4	19	19.0	30.0	20	300	80	1200	50

HOT AIR BLOWER HOSE



Applications	For conveying hot air from the compressor / blower on dry material (for eg. cement) unloading systems.
Tube	Heat resistant EPDM rubber
Reinforcement	High tensile synthetic fabric
Cover	High abrasion and heat resistant synthetic rubber
Marking	<i>HOT AIR BLOWER HOSE - HEAVY DUTY - BP 450PSI WP 150 PSI</i>



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1	25	25.4	38.6	10	150	30	450	40
1.1/2	38	38.0	51.2	10	150	30	450	40
2	51	50.8	66.0	10	150	30	450	40
2.1/2	63	63.5	78.7	10	150	30	450	40
3	76	76.2	93.4	10	150	30	450	40
3.1/2	90	90.0	109.2	10	150	30	450	40
4	102	101.6	120.8	10	150	30	450	40

For sizes other than listed above, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

INDUSTRIAL WATER HOSE

WATER DELIVERY HOSE



Applications	For discharge of water and other non-corrosive liquid.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic fabric
Cover	Ozone and weather resistant synthetic rubber
Marking	WATER DELIVERY HOSE - BP 450PSI WP 150 PSI



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1.1/4	32	32.0	41.4	10	150	30	450
1.1/2	38	38.0	47.4	10	150	30	450
2	51	50.8	60.0	10	150	30	450
2.1/2	63	63.5	74.0	10	150	30	450
3	76	76.2	88.0	10	150	30	450
4	102	101.6	115.0	10	150	30	450
5	127	127.0	140.0	10	150	30	450
6	152	152.4	165.0	10	150	30	450

For sizes other than listed above, please contact us

WATER SUCTION & DISCHARGE HOSE 150PSI



Applications	For suction and discharge of water and other non-corrosive liquid.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	Ozone and weather resistant synthetic rubber
Marking	WATER SUCTION & DISCHARGE HOSE - BP 450 PSI - WP 150 PSI



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1.1/4	32	32.0	43.4	10	150	30	450
1.1/2	38	38.0	50.4	10	150	30	450
2	51	50.8	62.6	10	150	30	450
2.1/2	63	63.5	76.7	10	150	30	450
3	76	76.2	89.4	10	150	30	450
3.1/2	90	88.9	103.7	10	150	30	450
4	102	101.6	117.6	10	150	30	450
5	127	127.0	145.2	10	150	30	450
6	152	152.4	173.2	10	150	30	450
8	203	203.0	239.0	10	150	30	450
10	254	254.0	290.0	10	150	30	450

For sizes other than listed above, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

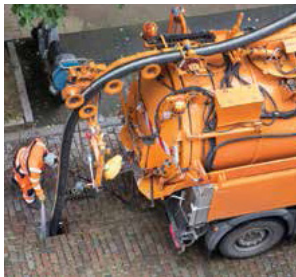
Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

WATER SUCTION & DISCHARGE HOSE 300PSI



Applications	For suction and discharge of water and other non-corrosive liquid.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	Ozone and weather resistant synthetic rubber
Marking	<i>WATER SUCTION & DISCHARGE HOSE - BP 900PSI - WP 300PSI</i>



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1.1/4	32	32.0	44.4	20	300	60	900	40
1.1/2	38	38.0	51.4	20	300	60	900	40
2	51	50.8	63.6	20	300	60	900	40
2.1/2	63	63.5	77.7	20	300	60	900	40
3	76	76.2	93.4	20	300	60	900	40
3.1/2	90	88.9	104.7	20	300	60	900	40
4	102	101.6	120.4	20	300	60	900	40
5	127	127.0	149.8	20	300	60	900	40
6	152	152.4	174.2	20	300	60	900	40

For sizes other than listed above, please contact us

FOLDABLE WATER DELIVERY HOSE



Applications	For discharge of water and other non-corrosive liquid. The hose can be flattened and coiled when it is not in-use.
Tube	Synthetic rubber
Reinforcement	High tensile polyester cord
Cover	High abrasion and weather resistant synthetic rubber
Marking	<i>FOLDABLE WATER DELIVERY HOSE BP 450PSI WP 150PSI</i>



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
2	51	50.8	58.4	10	150	30	450	40
3	76	76.2	83.8	10	150	30	450	40
4	101	101.6	109.0	10	150	30	450	40
6	152	152.4	163.0	10	150	30	450	40
8	203	203.2	217.0	10	150	30	450	20
10	254	254.0	268.0	10	150	30	450	20

*Flow direction of fluid is recommended to be in the same direction as indicated on the hose surface.

**Also available in 60 m lengths, please contact us.

FLEX HOSE



Applications	For use as a connecting joint between two pipes, transferring air, water and other non-corrosive liquids.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	Wear and weather resistant synthetic rubber
Marking	<i>FLEX HOSE - ID"</i>



Nominal ID		OD mm	WP		BP	
Inch	mm		bar	PSI	bar	PSI
3/4	19.1	33.1	5	75	7.5	112.5
1	25.4	39.4	5	75	7.5	112.5
1.1/4	31.8	45.8	5	75	7.5	112.5
1.1/2	38.1	52.1	4	60	6	90
1.3/4	44.5	58.5	4	60	6	90
2	50.8	64.8	4	60	6	90
2.1/4	57.2	71.2	3	45	4.5	67.5
2.1/2	63.5	78.5	3	45	4.5	67.5
2.3/4	69.9	84.9	3	45	4.5	67.5
3	76.2	91.2	3	45	4.5	67.5
3.1/4	82.6	97.6	3	45	4.5	67.5
3.1/2	88.9	103.9	3	45	4.5	67.5
3.3/4	95.3	110.3	3	45	4.5	67.5
4	101.6	116.6	2	30	3	45
4.1/4	108.0	123.0	2	30	3	45
4.1/2	114.3	129.3	2	30	3	45
5	127.0	147.0	2	30	3	45
5.1/2	139.7	159.7	2	30	3	45
6	152.4	172.4	2	30	3	45
6.1/2	165.1	185.1	2	30	3	45
8.1/2	215.9	238.1	2	30	3	45
10.1/2	266.7	292.1	2	30	3	45
12.1/2	317.5	345.5	2	30	3	45

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

GAS & WELDING HOSE



WELDING & CUTTING HOSE (Oxygen & Acetylene)



Applications	For use with welding and allied processes in workshops, shipyards, construction sites and factories.
Tube	High ignition temperature synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Excellent ozone and weather resistant synthetic rubber
Marking	ISO 3821 -2MPa (20 bar) -ID- YY



Blue (Oxygen)

Red (Acetylene)

Single line welding hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.0	12.0	20	300	60	900	100
1/4	6	6.3	13.3	20	300	60	900	100
1/4	6	6.3	16.0	20	300	60	900	40
5/16	8	8.0	15.0	20	300	60	900	100
3/8	9	9.0	16.0	20	300	60	900	100
3/8	10	10.0	17.0	20	300	60	900	100
1/2	12	12.7	21.0	20	300	60	900	100
3/4	19	19.0	28.0	20	300	60	900	100

Twin line welding hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16+3/16	5+5	5.0+5.0	12.0+12.0	20	300	60	900	100
1/4+1/4	6+6	6.3+6.3	13.3+13.3	20	300	60	900	100
1/4+3/8	6+9	6.3+9.0	13.3+16.0	20	300	60	900	100
1/4+3/8	6+9	6.3+9.0	16.0+16.0	20	300	60	900	40
5/16+5/16	8+8	8.0+8.0	15.0+15.0	20	300	60	900	100
5/16+3/8	8+9	8.0+9.0	15.0+16.0	20	300	60	900	100
3/8+3/8	9+9	9.0+9.0	16.0+16.0	20	300	60	900	100
3/8+3/8	10+10	10.0+10.0	17.0+17.0	20	300	60	900	100

WELDING HOSE WITH FITTINGS



Depending on customer's requirement, fitting can be made to meet the **standards of UNF or BSP**. Fittings material is made from brass.

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

WELDING & CUTTING HOSE (Oxygen & LPG)



Applications	For use with welding and allied processes in workshops, shipyards, construction sites and factories.
Tube	High ignition temperature synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Excellent ozone and weather resistant synthetic rubber
Marking	ISO 3821 -2MPa (20 bar) -ID- YY



● Blue (Oxygen)

● Orange (LPG)

LPG Hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.0	12.0	20	300	60	900	100
1/4	6	6.3	13.3	20	300	60	900	100
5/16	8	8.0	15.0	20	300	60	900	100
3/8	10	10.0	17.0	20	300	60	900	40

Oxygen & LPG Hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16+3/16	5+5	5.0+5.0	12.0+12.0	20	300	60	900	100
1/4+1/4	6+6	6.3+6.3	13.3+13.3	20	300	60	900	100
5/16+5/16	8+8	8.0+8.0	15.0+15.0	20	300	60	900	100
3/8+3/8	10+10	10.0+10.0	17.0+17.0	20	300	60	900	40

GAS HOSE (N₂, Ar, CO₂)



Applications	For use with welding and allied processes in workshops, shipyards, construction sites and factories.
Tube	High ignition temperature synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Excellent ozone and weather resistant synthetic rubber
Marking	ISO 3821 -2MPa (20 bar) -ID- YY

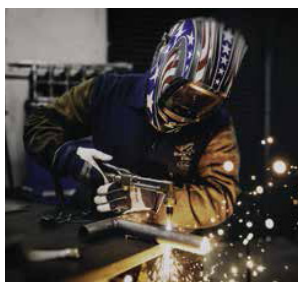


ISO 3821



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.0	12.0	20	300	60	900	100
1/4	6	6.3	13.3	20	300	60	900	100
5/16	8	8.0	15.0	20	300	60	900	100
3/8	10	10.0	17.0	20	300	60	900	40

WELDING & CUTTING HOSE (Oxygen & Universal Fuel Gas)



Applications	Designed for the transport of all type of gases and liquid gases, including hydrogen, propane/butane, natural gas, DMF, MPS and LPG.
Tube	High ignition temperature synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Excellent ozone and weather resistant synthetic rubber
Marking	UNIVERSAL FUEL GASES IDmm 2 MPa(20 bar) ISO3821-YY



Blue (Oxygen)

Red (Acetylene)

Orange (LPG)

Acetylene & UFG hose
ISO 3821



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.0	11.2	20	300	60	900	100
1/4	6	6.3	12.9	20	300	60	900	100
5/16	8	8.0	14.6	20	300	60	900	100
3/8	9	9.5	16.3	20	300	60	900	100
1/2	12	12.7	21.1	20	300	60	900	100
3/4	19	19.0	29.3	20	300	60	900	100

Marking

OXY ID mm 2 MPa (20 bar) x Universal Fuel Gases ID mm 2 MPa (20bar) - ISO 3821 - (yy)

Oxygen, Acetylene & UFG hose
ISO 3821



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16+3/16	5+5	5.0+5.0	11.2+11.2	20	300	60	900	100
1/4+1/4	6+6	6.3+6.3	13.3+13.3	20	300	60	900	100
1/4+3/8	6+9	6.3+9.5	14.2+16.1	20	300	60	900	100
5/16+3/8	8+9	8.0+9.5	15.5+16.1	20	300	60	900	100



Air Hose

Water Hose

Gas & Welding
Hose

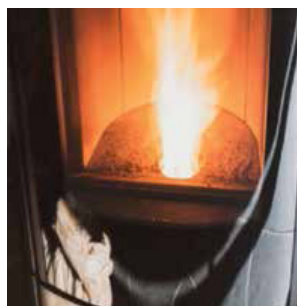
Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

PROPANE / BUTANE HOSE



Applications	For discharge of propane/butane, liquefied petroleum gas (LPG). Excellent flame and heat resistance Typical use for Heaters, Barbecues, Caravan installations and Weed burners.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic textile spiral yarn
Cover	Excellent oil, ozone and weather resistant synthetic rubber
Marking	BS EN 16436-1:2014+A1:2015 - IDmm - 10bar - PROPANE/BUTANE - PROD DATE: YYYY



BS EN 16436-1:2014+A1:2015



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.0	12.0	10	150	30	450	100
1/4	6	6.3	13.3	10	150	30	450	100
5/16	8	8.0	15.0	10	150	30	450	100
3/8	9	9.0	16.0	10	150	30	450	100
1/2	12	12.5	22.5	10	150	30	450	100

LPG STOVE HOSE



Applications	For use with the stove gas to discharge of liquefied petroleum gas (LPG). Excellent flame and heat resistance, and able to withstand severe bends without kinking.
Tube	Synthetic rubber
Reinforcement	High tensile synthetic textile spiral yarn
Cover	Excellent oil, ozone and weather resistant synthetic rubber
Marking	LPG HOSE w/o fitting ID 9.5 mm WP 2MPa (20 bar) TIS.895 - 2561 (2018)



TIS. 895-2561 (2018)
SNI 7213:2014



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/8	10	9.8	17.8	20	300	60	900	50
3/8	10	9.8	17.8	20	300	60	900	100
3/8	10	9.8	17.8	20	300	60	900	2

*Packaging includes stainless steel hose clamps.

NEO INDUSTRIAL HOSE (COLOR HOSE)



Applications	A premium quality fluid hose for a wide variety of uses. Suitable for conveying gases and liquids including hydrogen, nitrogen, argon, fuel gas such as acetylene, LPG, MPS, natural gas and methane in manufacturing factories. Available in several colors for application coding.
Tube	Oil mist resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Excellent ozone and weather resistant synthetic rubber
Marking	NEO - INDUSTRIAL HOSE -IDmm- WP 2.0 MPa (20 bar)



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.1	11.2	20	300	60	900	100
1/4	6	6.3	13.4	20	300	60	900	100
5/16	8	7.9	15.1	20	300	60	900	100
3/8	9	9.5	17.4	20	300	60	900	100
1/2	12	12.7	21.1	20	300	60	900	100
5/8	16	15.9	25.7	20	300	60	900	100
3/4	19	19.0	29.3	20	300	60	900	50
1	25	25.4	36.2	20	300	50	750	50

Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/16	5	5.1	11.2	20	300	60	900	100
1/4	6	6.3	13.4	20	300	60	900	100
5/16	8	7.9	15.1	20	300	60	900	100
3/8	9	9.5	17.4	20	300	60	900	100
1/2	12	12.7	21.1	20	300	60	900	100
5/8	16	15.9	25.7	20	300	60	900	100
3/4	19	19.0	29.3	20	300	60	900	50
1	25	25.4	36.2	20	300	50	750	50

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

A full-page background image with a green tint. It shows a worker in safety gear using a large, flexible abrasive material hose to clean a large, rectangular metal plate. The worker is on the right side of the frame, leaning over the plate. The hose is connected to a large industrial machine on the left. The scene is outdoors, with a brick building and some foliage in the background. The ground is covered in debris and dust.

ABRASIVE MATERIAL HOSE

CEMENT DELIVERY HOSE



Applications	For discharge of cement and abrasive slurry materials. Abrasion resistant refer to DIN 53516
Tube	Excellent abrasion resistant synthetic rubber
Reinforcement	High tensile synthetic fabric
Cover	High abrasion and weather resistant synthetic rubber
Marking	CEMENT DELIVERY HOSE - HEAVY DUTY - BP 450PSI - WP 150PSI



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
3	76	76.2	97.2	10	150	30	450
4	102	101.6	122.0	10	150	30	450
5	127	127.0	149.0	10	150	30	450

For sizes other than listed above, please contact us

CEMENT SUCTION & DISCHARGE HOSE



Applications	For suction and discharge of cement and abrasive slurry materials. Abrasion resistant refer to DIN 53516
Tube	Excellent abrasion resistant synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	High abrasion and weather resistant synthetic
Marking	CEMENT SUCTION & DISCHARGE HOSE - BP 450 pSI - WP 150 PSI



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
3	76	76.2	98.0	10	150	30	450
4	102	101.6	125.8	10	150	30	450
5	127	127.0	152.0	10	150	30	450
6	152	152.4	180.0	10	150	30	450

For sizes other than listed above, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

SHOTCRETE HOSE / GROUT HOSE



Applications	For spraying of cement and abrasive slurry materials such as concrete, gypsum, plaster, grout and mortar. For use in heavy construction sites. Excellent kinking resistance.
Tube	Excellent abrasion resistant synthetic rubber (Referring to DIN 53516)
Reinforcement	High tensile synthetic fabric
Cover	High abrasion and weather resistant synthetic rubber
Marking	SHOTCRETE HOSE - BP 1800PSI - WP 600PSI



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	39.0	40	600	120	1800
1.1/2	38	38.0	54.0	40	600	120	1800
2	51	50.8	68.0	40	600	120	1800
2.1/2	63	63.5	83.0	40	600	120	1800
3	76	76.2	98.0	40	600	120	1800
4	102	101.6	122.0	40	600	120	1800
5	127	127.0	149.0	40	600	120	1800

For sizes other than listed above, please contact us

SANDBLAST HOSE



Applications	For conveying abrasive sandblasting materials in cleaning and blasting metal, casting and concrete surfaces.
Tube	Excellent abrasion resistant synthetic rubber * Abrasion resistance : DIN 53516 ≤ 60mm ³
Reinforcement	High tensile synthetic
Cover	High abrasion and weather resistant synthetic rubber
Marking	SANDBLAST HOSE - HEAVY DUTY - BP 530PSI - WP 175 PSI



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1/2	13	13.0	29.0	12	175	36	530
3/4	19	19.0	33.0	12	175	36	530
1	25	25.4	39.0	12	175	36	530
1.1/4	32	32.0	48.0	12	175	36	530
1.1/2	38	38.0	54.0	12	175	36	530
2	51	50.8	69.0	12	175	36	530
2.1/2	63	63.5	82.0	12	175	36	530
3	76	76.2	96.0	12	175	36	530
4	102	101.6	122.0	12	175	36	530

ISO 3861 is available upon request

For sizes other than listed above, please contact us

SAND SUCTION & DISCHARGE HOSE



Applications	For suction and discharge of sand and abrasive slurry materials.
Tube	Excellent abrasion resistant synthetic rubber
Reinforcement	High tensile synthetic fabric with steel wire
Cover	High abrasion and weather resistant synthetic rubber
Marking	<i>SAND SUCTION & DISCHARGE HOSE</i>



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
6.1/2	165	165.1	209.1	10	150	30	450	3
6.1/2	165	165.1	209.1	10	150	30	450	4
8.5/8	219	219.1	276.3	10	150	30	450	3
8.5/8	219	219.1	276.3	10	150	30	450	4
8.5/8	219	219.1	339.7	10	150	30	450	6
10.5/8	270	269.9	339.7	10	150	30	450	2
10.5/8	270	269.9	339.7	10	150	30	450	3
10.5/8	270	269.9	339.7	10	150	30	450	4
10.5/8	270	269.9	339.7	10	150	30	450	5
10.5/8	270	269.9	339.7	10	150	30	450	6
12.3/4	324	323.9	400.1	10	150	30	450	3
12.3/4	324	323.9	400.1	10	150	30	450	4

For sizes other than listed above, please contact us

WATER MUD SUCTION & DISCHARGE HOSE



Applications	For suction and discharge of slurry, mud and waste water.
Tube	Excellent abrasion resistant synthetic rubber
Reinforcement	High tensile synthetic cords with spring wire
Cover	High abrasion and weather resistant synthetic rubber
Marking	<i>WATER MUD SUCTION & DISCHARGE HOSE - BP 450PSI - WP 150PSI</i>



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
5	127	127.0	141.4	10	150	30	450

For sizes other than listed above, please contact us

Air Hose

Water Hose

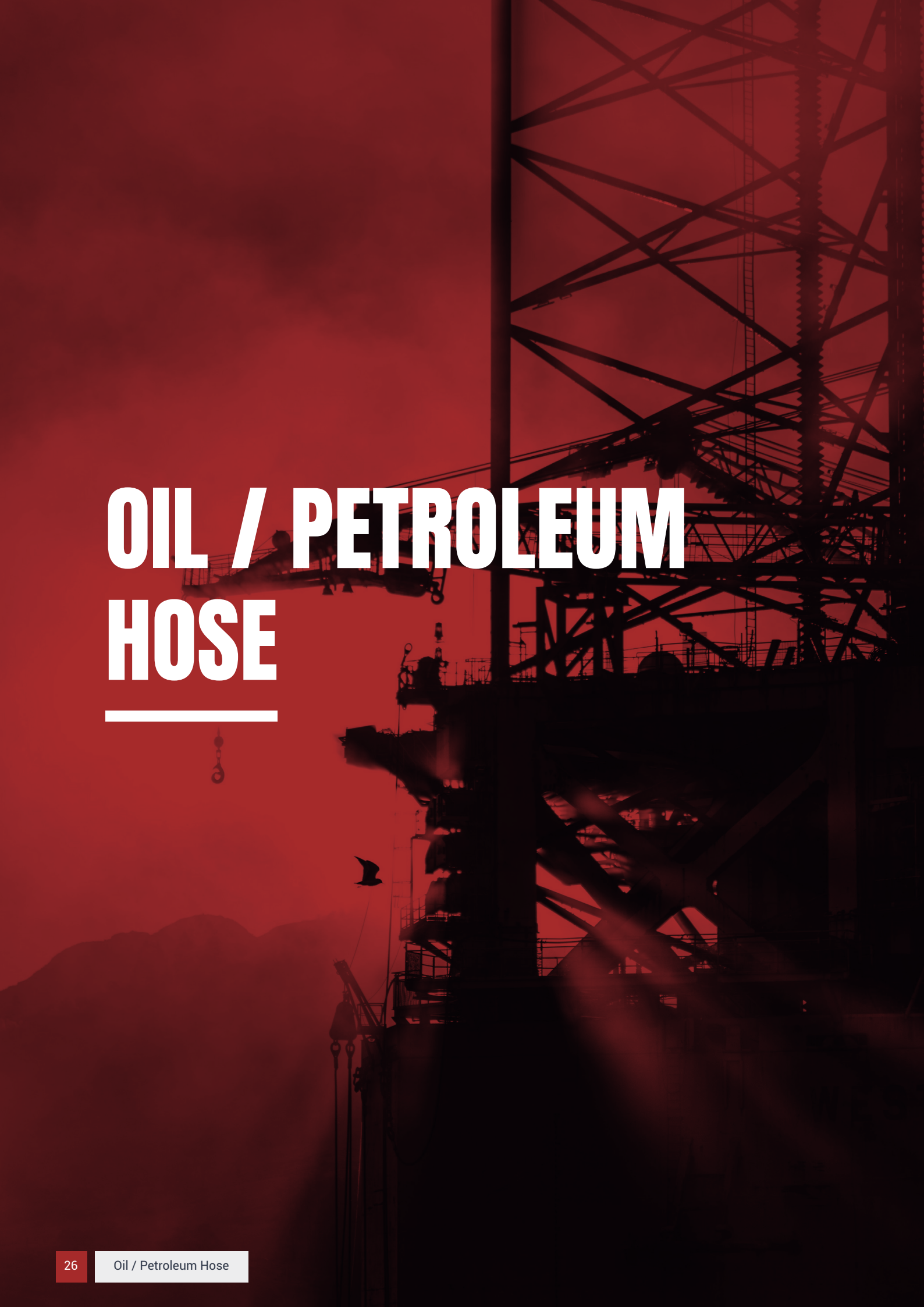
Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

A full-page background image featuring a dark red, monochromatic sky. In the foreground, the complex, skeletal structure of an oil rig is silhouetted against the sky. The rig's lattice of beams and platforms is prominent on the right side. In the lower-left background, the faint silhouette of a bird is visible in flight. The overall mood is industrial and dramatic.

OIL / PETROLEUM HOSE

OIL DELIVERY HOSE



Applications	For discharge of oil and some chemicals in refineries, factories and vessels.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic fabric
Cover	Weather, ozone and oil resistant synthetic rubber
Marking	<i>OIL DELIVERY HOSE - BP 450PSI - WP 150PSI</i>



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	35.0	10	150	30	450
1.1/4	32	32.0	42.0	10	150	30	450
1.3/8	35	35.0	45.0	10	150	30	450
1.1/2	38	38.0	48.0	10	150	30	450
1.3/4	44	44.5	55.0	10	150	30	450
2	51	50.8	62.0	10	150	30	450
2.1/2	63	63.5	75.0	10	150	30	450
3	76	76.2	88.0	10	150	30	450
4	102	101.6	116.0	10	150	30	450
5	127	127.0	143.0	10	150	30	450
6	152	152.4	168.0	10	150	30	450

For sizes other than listed above, please contact us



Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

OIL SUCTION & DISCHARGE HOSE 150PSI



Applications	For suction and discharge of petroleum products, of up to 50% aromatic contents, in refineries, factories and vessels.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	Weather, ozone and oil resistant synthetic rubber
Marking	<i>OIL SUCTION & DISCHARGE HOSE - BP 450 pSI - WP - 150PSI</i>



Smooth



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	36.4	10	150	30	450
1.1/4	32	32.0	43.0	10	150	30	450
1.1/2	38	38.0	50.0	10	150	30	450
2	51	50.8	62.8	10	150	30	450
2.1/2	63	63.5	78.3	10	150	30	450
3	76	76.2	91.0	10	150	30	450
3.1/2	90	88.9	103.7	10	150	30	450
4	102	101.6	117.6	10	150	30	450
5	127	127.0	147.8	10	150	30	450
6	152	152.4	175.2	10	150	30	450

For sizes other than listed above, please contact us

Flat-Corrugated



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1.1/4	32	32.0	42.8	10	150	30	450
1.1/2	38	38.0	51.0	10	150	30	450
2	51	50.8	62.6	10	150	30	450
2.1/2	63	63.5	77.9	10	150	30	450
3	76	76.2	90.6	10	150	30	450
3.1/2	90	88.9	104.0	10	150	30	450
4	102	101.6	120.0	10	150	30	450
5	127	127.0	148.0	10	150	30	450
6	152	152.4	175.2	10	150	30	450

For sizes other than listed above, please contact us

OIL SUCTION & DISCHARGE HOSE 250PSI



Applications	For suction and discharge of petroleum products, of up to 50% aromatic contents, in refineries, factories and vessels.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	Weather, ozone and oil resistant synthetic rubber
Marking	<i>OIL SUCTION & DISCHARGE HOSE - BP 750PSI - WP 250 PSI</i>



Smooth



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	37.0	17	250	51	750
1.1/4	32	32.0	44.0	17	250	51	750
1.1/2	38	38.0	51.0	17	250	51	750
2	51	50.8	65.0	17	250	51	750
2.1/2	63	63.5	79.5	17	250	51	750
3	76	76.2	92.2	17	250	51	750
3.1/2	90	88.9	106.9	17	250	51	750
4	102	101.6	118.8	17	250	51	750
5	127	127.0	147.4	17	250	51	750
6	152	152.4	177.2	17	250	51	750

For sizes other than listed above, please contact us

Flat-Corrugated



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	37.0	17	250	51	750
1.1/4	32	32.0	44.0	17	250	51	750
1.1/2	38	38.0	51.0	17	250	51	750
2	51	50.8	65.0	17	250	51	750
2.1/2	63	63.5	79.5	17	250	51	750
3	76	76.2	92.2	17	250	51	750
3.1/2	90	88.9	106.9	17	250	51	750
4	102	101.6	118.8	17	250	51	750
5	127	127.0	147.4	17	250	51	750
6	152	152.4	177.2	17	250	51	750

For sizes other than listed above, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

ROAD & RAIL TANKER HOSE / TANK TRUCK HOSE



Applications	For loading and unloading oil from tank truck.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	Weather and oil resistant synthetic rubber
Marking	ROAD & RAIL TANKER HOSE - BS3492 - BP 450 pSI -WP 150 PSI



BS 3492
Smooth



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	36.2	10	150	30	450
1.1/4	32	32.0	43.0	10	150	30	450
1.3/8	35	35.0	47.0	10	150	30	450
1.1/2	38	38.0	50.0	10	150	30	450
1.3/4	44	44.5	56.5	10	150	30	450
2	51	50.8	63.0	10	150	30	450
2.1/2	63	63.5	78.0	10	150	30	450
3	76	76.2	91.0	10	150	30	450
4	102	101.6	120.0	10	150	30	450

For sizes other than listed above, please contact us

BS 3492
Flat-Corrugated



Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	36.2	10	150	30	450
1.1/4	32	32.0	43.0	10	150	30	450
1.3/8	35	35.0	47.0	10	150	30	450
1.1/2	38	38.0	50.0	10	150	30	450
1.3/4	44	44.5	56.5	10	150	30	450
2	51	50.8	63.0	10	150	30	450
2.1/2	63	63.5	78.0	10	150	30	450
3	76	76.2	91.0	10	150	30	450
4	102	101.6	120.0	10	150	30	450

For sizes other than listed above, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

PETROL PUMP HOSE



Applications	For dispensing petrol.
Tube	Petrol resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn, with built-in conductive wire to provide electrical continuity
Cover	Petrol, ozone and weather resistant synthetic rubber
Marking	PETROL PUMP HOSE BS 3395/1 ID MM



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/8	16	16.0	26.0	10	150	40	600	60
3/4	19	19.0	32.0	10	150	40	600	60
1	25	25.4	38.0	10	150	40	600	30

For sizes other than listed above, please contact us

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

MULTI-PURPOSE HOSE



Applications	A premium quality hose for multi-purpose applications. Suitable for conveying air, water, fuel, oil and other common solvents.
Tube	Oil resistant synthetic rubber.
Reinforcement	High tensile synthetic textile filament yarn.
Cover	Oil and weather resistant synthetic rubber.
Marking	MULTI-PURPOSE HOSE ID" (ID MM) WP 300 PSI



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/4	6	6.3	13.5	20	300	60	900	100
5/16	8	8.0	15.0	20	300	60	900	100
3/8	9	9.5	17.5	20	300	60	900	100
1/2	12	12.7	21.0	20	300	60	900	100
5/8	16	16.0	24.0	20	300	60	900	100
3/4	19	19.0	29.0	20	300	60	900	100
1	25	25.4	36.0	20	300	50	750	100

For sizes other than listed above, please contact us



CHEMICAL HOSE

UHMWPE CHEMICAL SUCTION & DISCHARGE HOSE



Applications	Designed to handle wide range of chemicals, solvents and corrosive liquids in both suction and discharge service.
Tube	Ultra high molecular weight polyethylene (UHMWPE)
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	EPDM rubber – High chemical, ozone and weather resistant synthetic rubber



IVORY WHITE TUBE



Marking		<i>UHMWPE CHEMICAL S&D HOSE - BP 960 PSI - WP240 PSI</i>					
Nominal ID		ID	OD	WP		BP	
Inch	mm	mm	mm	bar	PSI	bar	PSI
1	25	25.4	37.4	16	240	64	960
1.1/4	32	31.8	43.8	16	240	64	960
1.1/2	38	38.1	50.5	16	240	64	960
2	51	50.8	63.2	16	240	64	960
2.1/2	63	63.5	77.1	16	240	64	960
3	76	76.2	91.0	16	240	64	960
4	102	101.6	118.0	16	240	64	960

For sizes other than listed above, please contact us

BLACK TUBE



Marking		<i>UHMWPE CHEMICAL S&D HOSE - IDmm 16 BAR W.P.</i>						
Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
2	51	50.8	63.0	16	240	64	960	30
2.1/2	63	63.5	77.0	16	240	64	960	30
3	76	76.2	92.0	16	240	64	960	30

For sizes other than listed above, please contact us



CAUTION: Consult the chemical resistance chart and safety warning for each application. It is advisable to test the tube material under actual service conditions prior to initial use.

Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

UHMWPE CHEMICAL SUCTION & DISCHARGE HOSE

UHMWPE and XLPE
Chemical Resistance Guide

	Chemical or Material Conveyed		UHMWPE	XLPE	Chemical or Material Conveyed		UHMWPE	XLPE	Chemical or Material Conveyed		UHMWPE	XLPE
Air Hose	ACETIC ACID, GLACIAL		E	E	CASTOR OIL		E	E	HYDROGEN PEROXIDE 10%		G	G
	ACETIC ACID–10%		E	E	CELLOSOLVE ACETATE		E	E	HYDROGEN PEROXIDE OVER 10%		E	C
	ACETIC ACID–50%		E	G	CHLORINATED SOLVENTS		1	G	HYDROGEN SULFIDE (WET)		E	E
	ACETIC ANHYDRIDE		G	E	CHLOROACETIC ACID		E	E	ISOOCTANE		E	E
	ACETONE		E	E	CHLOROSULFONIC ACID		X	X	ISOPROPYL ALCOHOL		E	E
	ACETYLENE		E	E	CITRIC ACID		E	E	JET FUELS		E	E
Water Hose	AIR, +300F		X		COAL OIL		E	E	KEROSENE		E	E
	ALUMINUM CHLORIDE (AQ) – 40%		E	E	COAL TAR		E	E	LACQUER SOLVENTS		G	G
	ALUMINUM FLUORIDE		E	E	COAL TAR NAPHTHA			E	LACTIC ACID – COLD		E	E
	ALUMINUM SULFATE (AQ)		E	E	COKE OVEN GAS			E	LAVENDER OIL		G	G
	ALUMS-NH3-CR-K		E	E	COPPER CHLORIDE		E	E	LINSEED OIL		E	E
	AMMONIUM CHLORIDE (AQ)		E	E	COPPER SULFATE		E	E	LUBRICATING OILS, SAE		E	E
Gas & Welding Hose	AMMONIUM HYDROXIDE		E	E	CORN OIL		E	E	MAGNESIUM CHLORIDE		E	E
	AMMONIUM NITRATE (AQ)		E	E	COTTONSEED OIL		E	E	MAGNESIUM HYDRATE		E	
	AMMONIUM PHOSPHATE, DIBASIC		E	E	CREOSOTE		E	E	MAGNESIUM SULFATE		E	E
	AMMONIUM SULPHATE (AQ)		E	E	CRESOLS		E	E	MERCURY		E	E
	AMYL ACETATE		E	E	CRUDE OIL		E	E	METHYL ACETATE		E	E
	AMYL ALCOHOL		E	E	DICHLOROETHYL ETHER			E	METHYL ACETONE		E	
Abrasive Material Hose	ANILINE		E	E	DIESEL OIL		E	C	METHYL ALCOHOL		E	E
	ANILINE DYES		E	E	DIETHANOLAMINE		E		METHYL CHLORIDE		E	G
	ANIMAL FATS		E	E	DIETHYLAMINE		E	C	METHYL ETHYL KETONE		E	E
	ASPHALT		X	X	ETHYL ACETATE		E	C	METHYL TERTIARY BUTYL ETHER		G	
	BANANA OIL		E	E	ETHYL ALCOHOL		E	E	MINERAL OIL		E	E
	BARIUM CHLORIDE (AQ)		E	E	ETHYL CELLULOSE		E	E	NAPHTHA		E	E
Oil / Petroleum Hose	BARIUM HYDROXIDE (AQ)		E	E	ETHYL CHLORIDE		G	G	NAPHTHALENE		E	E
	BARIUM SULFIDE (AQ)		E	E	ETHYLENE GLYCOL		E	C	NICKEL CHLORIDE		E	E
	BEER		E	E	FATTY ACIDS		E	E	NICKEL SULFATE		E	E
	BEET SUGAR LIQUORS		E	E	FERRIC CHLORIDE		E	E	NITROBENZENE		E	E
	BENZENE		E	E	FERRIC SULFATE		E	E	NITROGEN		E	E
	BENZINE			E	FORMALDEHYDE		E	E	OCTANOL		E	E
Chemical Hose	BENZOL		G		FORMALIN			E	OLEIC ACID		E	E
	BLACK SULFATE LIQUOR		E		FORMIC ACID		E	E	OLEUM (FUMING SULFURIC ACID)		X	X
	BORAX SOLUTION		E	E	FUEL OIL		E	E	OLIVE OIL		G	C
	BORIC ACID		E	E	FURFURAL		E	E	OXALIC ACID		E	C
	BUNKER OIL		E	E	GALLIC ACID		E	C	PALMITIC ACID		E	G
	BUTANE		E	E	GASOLINE		G	G	PARAFFIN WAX		E	X
Automotive Hose	BUTYL ACETATE		E	E	GLUCOSE		E	E	PENTACHLOROETHANE			E
	BUTYL ALCOHOL		E	E	GLYCERINE		E	C	PETROLEUM CRUDE		E	E
	BUTYL CHLORIDE		C	G	GREASE, PETROLEUM BASE		E	G	PHENOL		E	E
	CALCIUM CHLORIDE		E	E	GREEN SULFATE LIQUOR		E	E	PHOSPHORIC ACID 10%		E	E
	CALCIUM HYDROXIDE		E	E	HYDRAULIC OIL, PETRO-LEUM		E	E	PINE OIL		E	E
	CALCIUM HYPOCHLORITE		C	C	HYDROBROMIC ACID		G	C	POTASSIUM CHLORIDE		E	
	CARBOLIC ACID (PHENOL)		E	E	HYDROCHLORIC ACID		E	E	POTASSIUM CYANIDE		E	E
	CARBON DIOXIDE		E	E	HYDROCYANIC ACID		E		POTASSIUM HYDROXIDE		G	E
	CARBON DISULFIDE		E	C	HYDROFLUORIC ACID		E	C	POTASSIUM SULFATE		E	E
	CARBON MONOXIDE		E	E	HYDROFLUOSILICIC ACID		G	C	PROPANOL			E
	CARBON TETRACHLORIDE		G	E	HYDROGEN GAS		E	E	SEA WATER		E	E



AUTOMOTIVE HOSE

CAR HEATER HOSE



Applications	For use in connecting engine heater system in the coolant circulating system.
Tube	Glycol resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Oil and weather resistant synthetic rubber
Marking	CAR HEATER HOSE ID" SAE J20 R3 D1 WP 75 PSI



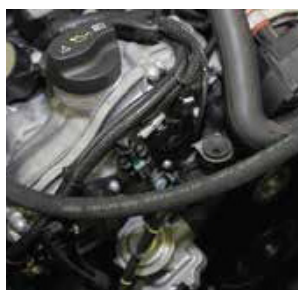
SAE J20 R3 D1



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/16	8	8.0	16.0	5	75	20	300	50
3/8	9	9.5	17.5	5	75	20	300	50
1/2	12	12.7	20.0	5	75	20	300	50
5/8	16	16.0	24.0	5	75	20	300	50
3/4	19	19.0	27.0	5	75	20	300	50
1	25	25.4	36.0	5	75	20	300	50

Also available in 20m lengths, please contact us

CNG / LPG HOSE



Applications	For conveying CNG (Compressed Natural Gas) or LPG (Liquefied Petroleum Gas) in automotive lines.
Tube	CNG/LPG resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Oil, ozone and weather resistant synthetic rubber
Marking	CNG/LPG HOSE -ECE R110 / ECE R87 -CLASS 2- ID MM - WP 20 BAR = EUROPEAN TECHNOLOGY



*ECE R110 / ECE R67 CLASS 2



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/32	4	4.0	10.0	20	300	40	600	25
3/16	5	5.0	11.0	20	300	40	600	25
1/4	6	6.0	13.0	20	300	30	450	25
5/16	8	8.0	15.0	20	300	60	900	25
3/8	10	10.0	17.0	20	300	60	900	25
7/16	11	11.0	18.0	20	300	60	900	25
1/2	12	12.0	19.0	20	300	60	900	25
5/8	16	16.0	24.0	20	300	60	900	25
3/4	19	19.0	27.0	20	300	60	900	25

Also available in 15m lengths, please contact us

FUEL / OIL HOSE : R6



Applications	For conveying fuel/oil in automotive lines and for general usage in contact with fuel/oil.
Tube	Fuel/oil resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Fuel/oil, ozone and weather resistant synthetic rubber
Marking	FUEL/OIL HOSE SAE J30 R6 ID" WP 300 PSI



SAE J30 R6



Not designed to be submerged in gasoline

Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/8	3	3.2	10.0	20	300	60	900	50
5/32	4	4.0	11.0	20	300	60	900	50
3/16	5	5.0	12.0	20	300	60	900	50
1/4	6	6.3	13.3	20	300	60	900	50
5/16	8	8.0	15.0	20	300	60	900	50
3/8	9	9.5	16.5	20	300	60	900	50
7/16	11	11.1	18.4	20	300	60	900	50
1/2	12	12.7	20.0	20	300	60	900	50
5/8	16	16.0	24.0	20	300	60	900	50
3/4	19	19.0	29.0	20	300	60	900	50
1	25	25.4	36.0	20	300	50	750	50

Also available in 20m, 25m, 30m lengths, please contact us

FUEL / OIL HOSE (Gasohol E20/E85) : R7



Applications	Most suitable for conveying ethanol blended gasoline (E20/85) in combustion engines and for general usage in contact with fuel/oil.
Tube	Fuel/oil resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Fuel/oil, ozone and weather resistant synthetic rubber
Marking	FUEL HOSE ID" SAE J30 R7 WP 300 PSI BP 900 PSI GASOHOL E20/E85



SAE J30 R7



Not designed to be submerged in gasoline

Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/8	3	3.2	10.0	20	300	60	900	25
5/32	4	4.0	11.0	20	300	60	900	25
3/16	5	5.0	10.5	20	300	60	900	25
1/4	6	6.3	13.3	20	300	60	900	25
5/16	8	8.0	15.0	20	300	60	900	25
3/8	9	9.5	16.5	20	300	60	900	25
7/16	11	11.1	18.4	20	300	60	900	25
1/2	12	12.7	20.0	20	300	60	900	25
5/8	16	16.0	24.0	20	300	60	900	25
3/4	19	19.0	29.0	20	300	60	900	25
1	25	25.4	36.0	20	300	50	750	25

Also available in 10m, 15m lengths, please contact us

FUEL INJECTION HOSE: R9



Applications	Most suitable for conveying gasoline, gasohol E10/E20/E85, diesel, bio-diesel in combustion engines. Designed specifically for fuel injection systems
Tube	Exceptionally low-permeation and chemical resistant FKM <Fluoroelastomer> with thermoplastic lining
Reinforcement	Premium Kevlar® Aramid yarn provides exceptional hose integrity in high temperature environment
Cover	Excellent - oil, ozone and high temperature resistant
Marking	FUEL INJECTION HOSE ID" SAE J30 R9 WP 300 PSI GASOHOL E20/E85

**E10/E20/E85
GASOHOL**



INTERMITTENT

SAE J30 R9

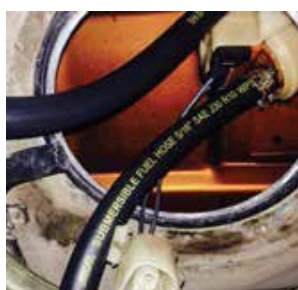


Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/16	8	8.0	14.5	20	300	60	900	5

For sizes other than listed above, please contact us

Not designed to be submerged in gasoline

SUBMERSIBLE FUEL HOSE: R10



Applications	Designed for constant contact with gasoline, other liquefied petroleum on both the inside and the outside of the hose
Tube	Exceptionally low-permeation and chemical resistant FKM <Fluoroelastomer>
Reinforcement	Premium Kevlar® Aramid yarn provides exceptional hose integrity in high temperature environment
Cover	Excellent - oil, ozone and high temperature resistant
Marking	SUBMERSIBLE FUEL HOSE ID" SAE J30 R10 WP300PSI > FKM/ARA-MID > E10/E20/E85

**E10/E20/E85
GASOHOL**



INTERMITTENT

SAE J30 R10



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/16	8	8.0	14.5	20	300	60	900	0.3

Also available in 20m lengths, please contact us

Designed to be submerged in gasoline

AIR CONDITIONING HOSE



Applications	For conveying freon R-12 and R-134a in automotive air conditioning systems.
Tube	Oil and freon resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Oil, ozone and weather resistant synthetic rubber
Marking	<i>AIR CONDITIONING HOSE R-12 - ID MM- DIS</i> <i>AIR CONDITIONING HOSE NT TYPE - ID MM - DIS</i>



NT type for R-134a

SAE J2064 E1



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/16	8	8.2	15.7	30	450	120	1800	100
13/32	10	11.0	19.0	30	450	120	1800	100
5/8	15	15.2	23.0	15	225	60	900	100

SAE J51 A2



for R-12

Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/16	8	7.9	18.3	30	450	120	1800	100
13/32	10	10.6	22.3	30	450	120	1800	100
1/2	13	12.9	22.3	20	300	80	1200	100



Air Hose

Water Hose

Gas & Welding
Hose

Abrasive Material
Hose

Oil / Petroleum
Hose

Chemical
Hose

Automotive
Hose

BRAKE HOSE



Applications	Air Brake Hose For use in automotive air brake system. Vacuum Brake Hose For use in automotive vacuum brake system.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Heat and ozone resistant synthetic rubber
Marking	AIR BRAKE HOSE ID" SAE J1402 VACUUM BRAKE HOSE ID" SAE J1403 VL



Air Brake Hose

SAE J1402



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
3/8	9	9.5	19.0	10	150	62	930	50
1/2	12	12.7	22.3	10	150	62	930	50



Vacuum Brake Hose

SAE J1403



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
11/32	8	8.7	17.5	10	150	30	450	50
15/32	12	11.9	20.7	10	150	30	450	50

TRAINLINE AIR BRAKE HOSE



Applications	Designed for brake pipe applications and other locomotive engines.
Tube	Oil resistant synthetic elastomer
Reinforcement	High tensile synthetic fabric
Cover	Oil, ozone, weather and abrasion resistant synthetic elastomer



AAR M-601
AS 2435



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1.3/8	35	34.92	52.39	13.50	200	68.00	1000	22
1.3/8	35	34.92	52.39	13.50	200	68.00	1000	33
1.7/16	37	36.51	53.98	13.50	200	68.00	1000	22
1.7/16	37	36.51	53.98	13.50	200	68.00	1000	33

For sizes other than listed above, please contact us

RADIATOR HOSE



Applications	Designed for coolant transfer from radiator as well as through other components in automotive cooling system.
Tube	Black EPDM
Reinforcement	High tensile textile cords
Cover	Heat, abrasion and weather resistant synthetic rubber
Marking	<i>RADIATOR HOSE ID mm DIN 73411 WP 75 PSI (5 BAR)</i>



DIN 73411



Not for conveying fuel or oil

Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
7/8"	22	22.0	30.0	5	75	15	225	1
1"	25	25.4	33.0	5	75	15	225	1
1.1/8"	28	28.0	36.0	5	75	15	225	1
1.1/4"	32	31.8	40.0	5	75	15	225	1
1.3/8"	35	35.0	43.0	5	75	15	225	1
1.1/2"	38	38.0	48.0	5	75	15	225	1
1.5/8"	42	42.0	52.0	5	75	15	225	1
1.3/4"	45	45.0	55.0	5	75	15	225	1
1.7/8"	48	48.0	60.0	5	75	15	225	1
2"	51	50.8	61.0	5	75	15	225	1
2.1/8"	55	55.0	65.0	5	75	15	225	1
2.1/4"	57	57.0	67.0	5	75	15	225	1
2.3/8"	60	60.0	70.0	5	75	15	225	1
2.1/2"	63	63.0	73.0	5	75	15	225	1
2.3/4"	70	70.0	80.0	5	75	15	225	1
3"	76	76.0	86.0	5	75	15	225	1
3.1/8"	80	80.0	90.0	5	75	15	225	1
3.1/2"	90	90.0	102.0	5	75	15	225	1
4"	102	102.0	114.0	5	75	15	225	1
4.1/2"	114	114.3	126.1	5	75	15	225	1
5"	127	127.0	137.0	5	75	15	225	1

For sizes other than listed above, please contact us



TRANSMISSION OIL COOLER HOSE



Applications	Most suitable for conveying transmission oil fluid in external transmission oil coolers
Tube	Transmission oil and heat resistant synthetic rubber
Reinforcement	High tensile synthetic textile filament yarn
Cover	Transmission oil, ozone and weather resistant synthetic rubber
Marking	TRANSMISSION OIL COOLER HOSE ID" SAE J1532 TYPE B CLASS 1 WP 300 PSI BP 900 PSI



SAE J1532 TYPE B
CLASS 1



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
5/16	89	8.0	15.0	20	300	60	900	25
3/8	11	9.5	16.5	20	300	60	900	25
7/16	12	11.1	18.4	20	300	60	900	25
1/2		12.7	20.0	20	300	60	900	25

WINDSHIELD WASHER TUBING



Applications	For use in automotive windshield washing system.
Tube	Ozone and tear resistant synthetic rubber, resistant to windshield washer solution.
Marking	WINDSHIELD WASHER TUBING ID MM SAE J1037



SAE J1037



Nominal ID		ID	OD	WP		BP		L
Inch	mm	mm	mm	bar	PSI	bar	PSI	m
1/8	3	3.0	6.0	2	30	8	120	50
5/32	4	4.0	7.0	2	30	8	120	50
3/16	5	5.0	8.0	2	30	8	120	50
7/32	5.5	5.5	9.0	2	30	8	120	50
1/4	6	6.3	10.0	2	30	8	120	50



Nische Solutions Master Catalog 2025

Nische Solutions is the industry's leading manufacturer of heat-resistant materials and industrial safety equipment.