



GREENLINE

INDUSTRIAL HOSES



The World's Most Trusted Name in Hose and Hydraulics

HOSE TYPE	NOMINAL I.D.		MEAN O.D.		WORKING PRESSURE			MIN. BURST PRESSURE			SERVICE TEMP. RANGE	CONSTRUCTION	APPLICATION
	mm	inch	mm	inch	Kg/cm ²	Mpa	psi	Kg/cm ²	Mpa	psi	Centigrade		
ROCK DRILL HOSE Exceeds IS : 446 Type 3	12.5	1/2	19.8	0.78	21.0	2.1	300	84.0	8.4	1200	-30°C to +82°C TUBE : Specially compounded Nitrile Rubber COVER : Specially Compounded Highly Abrasion Resistant Nitrile Rubber for Size 12.5 mm & 20.0 mm Highly Abrasion Resistant Modified Natural Rubber for Size 25.0 mm REINFORCEMENT : • High Tenacity Synthetic Yarn for size 12.5 mm to 25.0 mm	Recommended for heavy duty, high pressure use on industrial, construction & pneumatic mining applications, requiring heavy duty hose hose with an oil resistant tube and abrasion resistant cover.	
	20.0	3/4	28.0	1.10	21.0	2.1	300	84.0	8.4	1200			
	25.0*	1*	37.8	1.48	21.0	2.1	300	84.0	8.4	1200			
ROCK DRILL PLUS HOSE Exceeds IS : 446 Type 3	20.0	3/4	30.0	1.18	21.0	2.1	300	84.0	8.4	1200	-30°C to +82°C TUBE : Specially compounded Nitrile Rubber COVER : Specially Compounded Highly Abrasion Resistant Nitrile Rubber REINFORCEMENT : High Tenacity Synthetic Yarn	Recommended for heavy duty, high pressure use on industrial, construction & pneumatic mining applications, requiring heavy duty hose hose with an oil resistant tube and abrasion resistant cover.	
500 MP / AIR DRILL HOSE Black or Yellow Cover	20.0*	3/4*	28.2	1.11	34.5	3.45	500	138.0	13.8	2000	-30°C to +82°C TUBE : Specially compounded Nitrile Rubber COVER : Option I : Specially Compounded Highly Abrasion Resistant Natural Rubber-Black in colour. Option II : Highly Abrasion Resistant Modified Nitrile Rubber-Yellow in colour REINFORCEMENT : Single Braid of High Tensile Steel Wire.	Recommended for heavy duty pneumatic applications, suitable for usage usage in air compressors of high capacity.	
	25.4*	1*	36.6	1.44	34.5	3.45	500	138.0	13.8	2000			
	31.8*	1¼*	44.2	1.74	34.5	3.45	500	138.0	13.8	2000			
	38.0*	1½*	50.5	1.99	34.5	3.45	500	138.0	13.8	2000			
	51.0*	2*	63.5	2.50	34.5	3.45	500	138.0	13.8	2000			

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*Not branded as "Greenline"

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	mm	inch	mm	inch	Kg/cm ²	Mpa	psi	Kg/cm ²	Mpa	psi	Centigrade		
PETROL DISPENSING HOSE Meets & Exceeds IS : 2396 and performance requirements of BS EN 1360 TYPE 1	19.0	3/4	32.0	1.27	7.0	0.7	100	28.0	3.0	400	-40°C to +49°C	TUBE : Black. Specially compounded Nitrile Rubber. Resistant to high Aromatic Gasoline COVER : Black .Modified Nitrile REINFORCEMENT : Two Braids of High Tenacity Synthetic Yarn. Twin Copper wires ensure reliable conductivity.	Recommended for dispensing all types of Petrol & Diesel fuels for Service Station Pumps.Electrical conductivity having two nos. braided copper flex wires laid spirally in opposite direction for electrical conductivity
	25.0	1	38.0	1.50	7.0	0.7	100	28.0	3.0	400			
BLACKSNAKE GASOLINE HOSE Meets performance requirements of BS EN 1360 TYPE 3	16.0	5/8	25.4	1.00	10.0	1.0	150	51.7	5.17	750	-40°C to +49°C	TUBE : Black. Specially compounded Nitrile Rubber. Resistant to high Aromatic Gasoline COVER : Black .Modified Nitrile REINFORCEMENT : Braided High Tensile Steel Wire	Recommended for dispensing all types of Petrol & Diesel fuels for Service Station Pumps. A heavy duty hardwall hose which does not collapse in reel use or behind the nozzle in heavy duty service.
	19.0	3/4	28.7	1.13	10.0	1.0	150	51.7	5.17	750			
	25.4	1	35.0	1.37	10.0	1.0	150	51.7	5.17	750			
CHEMICAL HOSE Exceeds IS : 7654 Type 1	19.0	3/4	31.0	1.22	10.0	1.0	150	40.0	4.0	600	-40°C to +100°C	TUBE : Black. Specially Compounded EPDM COVER : Black. Specially Compounded EPDM REINFORCEMENT : High Tenacity Synthetic Yarn	Recommended for conveying dilute chemicals e.g. Alum Liquor. Caustic Soda, Lime Solutions, Dilute Hydrochloric Acid, Dilute Sulphuric Acid, Methyl Alcohol, Ethyl Alcohol, Butyl Alcohol, Isobutanol, etc.**
	25.4	1	38.0	1.50	10.0	1.0	150	40.0	4.0	600			
	31.5	1¼	45.0	1.77	10.0	1.0	150	40.0	4.0	600			
	38.0	1½	52.0	2.05	10.0	1.0	150	40.0	4.0	600			
	50.0	2	68.0	2.68	10.0	1.0	150	40.0	4.0	600			
CARBON FREE HOSE	19.8	3/4	31.0	1.22	17.2	1.72	250	69.0	6.9	1000	-40°C to +100°C	TUBE : Modified Synthetic Rubber COVER : Modified Synthetic Rubber REINFORCEMENT : High Tenacity Synthetic Yarn	Recommended for specialised furnace coolant applications.Engineered with specially developed carbon-free tube and cover, whereby meeting service requirements of low leakage current (Less than 20 micro amp at 6KV DC)
	26.2	1	37.5	1.48	17.2	1.72	250	69.0	6.9	1000			
	32.4	1¼	45.2	1.82	17.2	1.72	250	69.0	6.9	1000			
	39.2	1½	53.6	2.11	17.2	1.72	250	69.0	6.9	1000			
	51.8	2	66.0	2.60	17.2	1.72	250	69.0	6.9	1000			

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**Also recommended for conveying other dilute chemicals such as Acetic Acid (56% or less), Ammonia (Aqueous upto 30% NH₃), Antifreeze (Glycol Base) Liquid, Aqua Ammonia (Ammonium Hydroxide) (30%), Argon Compressed Gas, Boric Acid, Brine (Salt) Liquid, Calcium Sulfate, Carbon Monoxide, Carbon Acid, Epoxy Resin, Ethers, Glycerine (Glycerol), Hydrogen Peroxide (50% or less), Iron Salts, Nitrogen (Gas), Salt Water (Sea Water), Soap Solutions, Soda Ash (Sodium Carbonate)

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	mm	inch	mm	inch	Kg/cm ²	Mpa	psi	Kg/cm ²	Mpa	psi	Centigrade		
STEAM HOSE-1 WIRE Exceeds IS : 10655 Type 2 & BS : 5342 Type 1	20.0	3/4	31.0	1.22	10.0	1.0	150	100.0	10.0	1500	-40°C to +185°C	TUBE : EPDM - Black COVER : EPDM - Black. All sizes are perforated REINFORCEMENT : Single Braid of High Brass Coated Steel Wire	Recommended for all type of Steam - Saturated and Superheated - upto 150 psi & 185°C. NOTE : Do not alternate change between Steam and Water
	25.0	1	36.6	1.44	10.0	1.0	150	100.0	10.0	1500			
	31.5	1¼	43.5	1.71	10.0	1.0	150	100.0	10.0	1500			
	38.0	1½	50.6	1.99	10.0	1.0	150	100.0	10.0	1500			
	50.0	2	63.5	2.50	10.0	1.0	150	100.0	10.0	1500			
MEGASTEAM HOSE-2 WIRE Exceeds IS : 10655 Type 3 & BS : 5342 Type 2	20.0	3/4	33.0	1.30	17.0	1.7	250	170.0	17.0	2500	-40°C to +232°C	TUBE : EPDM - Black COVER : EPDM - Black. All sizes are perforated REINFORCEMENT : Two Braids of High Tensile Brass Coated Steel Wire	Recommended for all type of Steam - Saturated and Superheated - upto 250 psi & 232°C. NOTE : Do not alternate change between Steam and Water
	25.0	1	40.7	1.60	17.0	1.7	250	170.0	17.0	2500			
	31.5	1¼	48.0	1.89	17.0	1.7	250	170.0	17.0	2500			
	38.0	1½	54.8	2.16	17.0	1.7	250	170.0	17.0	2500			
	50.0	2	67.5	2.66	17.0	1.7	250	170.0	17.0	2500			
SANDBLAST HOSE Exceeds IS : 5894 Type 1	20.0	3/4	38.6	1.52	7.0	0.7	100	35.0	3.5	500	-40°C to +70°C	TUBE : Natural Rubber - Black, Abrasion Resistant COVER : Natural Rubber - Black REINFORCEMENT : High Tenacity Synthetic Yarn with Static Wire	Recommended for Sand, Shot Blasting applications and where abrasive materials are carried at high velocity.
	25.0	1	45.1	1.78	7.0	0.7	100	35.0	3.5	500			
	31.5	1¼	52.7	2.07	7.0	0.7	100	35.0	3.5	500			
	38.0	1½	58.5	2.30	7.0	0.7	100	35.0	3.5	500			
	50.0	2	71.8	2.83	7.0	0.7	100	35.0	3.5	500			

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	mm	inch	mm	inch	Kg/cm ²	Mpa	psi	Kg/cm ²	Mpa	psi	Centigrade		
PNEUMATIC TOOL HOSE Exceeds IS : 446 Type 2	6.3	1/4	12.7	0.50	14.0	1.4	200	56.0	5.6	800	-40°C to +80°C	TUBE : Modified Nitrile - Black COVER : Modified Nitrile -Black REINFORCEMENT : • High Tenacity Synthetic Yarn for size 6.3 mm to 25 mm • High Tensile Brass Coated Steel Wire for size 31.5 mm to 55 mm	Recommended for all types of Pneumatic Tools in industries, Compressed Air applications and Construction Industry
	8.0	5/16	14.3	0.56	14.0	1.4	200	56.0	5.6	800			
	10.0	3/8	16.7	0.66	14.0	1.4	200	56.0	5.6	800			
	12.5	1/2	20.0	0.79	14.0	1.4	200	56.0	5.6	800			
	20.0	3/4	28.5	1.12	14.0	1.4	200	56.0	5.6	800			
	25.0	1	33.5	1.32	14.0	1.4	200	56.0	5.6	800			
	31.5	1¼	41.2	1.62	14.0	1.4	200	56.0	5.6	800			
	38.0	1½	47.5	1.87	14.0	1.4	200	56.0	5.6	800			
50.0	2	60.6	2.39	14.0	1.4	200	56.0	5.6	800				
AIR / WATER HOSE Exceeds IS : 446 Type 1 444 Type 2	12.5	1/2	20.0	0.79	12.0	1.2	170	36.0	3.6	510	-40°C to +80°C	TUBE : Modified Nitrile - Black COVER : Modified Nitrile -Black REINFORCEMENT : • High Tenacity Synthetic Yarn	Recommended for all Air and Water applications requiring maximum flexibility in Engineering Industry, Workshops, Shipyards, Irrigation etc.
	20.0	3/4	28.5	1.12	12.0	1.2	170	36.0	3.6	510			
	25.0	1	35.5	1.40	12.0	1.2	170	36.0	3.6	510			
	31.5	1¼	43.5	1.71	12.0	1.2	170	36.0	3.6	510			
	38.0	1½	50.0	1.97	12.0	1.2	170	36.0	3.6	510			
	50.0	2	65.0	2.56	12.0	1.2	170	36.0	3.6	510			
SUPER SPRAY HOSE (AG SPRAY) Exceeds IS : 1677 Type 4	10.0	3/8	21.0	0.83	55.0	5.5	800	165.0	16.5	2400	-40°C to +80°C	TUBE : Modified Nitrile - Black COVER : Modified Nitrile - Black REINFORCEMENT : High Tenacity Synthetic Yarn	Recommended for very high Pressure Spraying of Water Based Pesticides & Chemicals in Agriculture & Forestry. Oil resistant tube ensures longer life.
	12.5	1/2	24.0	0.97	55.0	5.5	800	165.0	16.5	2400			
WASH DOWN HOSE Exceeds IS : 444 Type 3B	10.0	3/8	18.9	0.74	28.0	2.8	400	112.0	11.2	1600	-40°C to +80°C	TUBE : Modified Nitrile - Black COVER : Modified Nitrile - Black REINFORCEMENT : High Tenacity Synthetic Yarn	Recommended for all Car Washing and Pressure Washer applications in Garages, Service Stations and Industries.
	12.5	1/2	23.0	0.91	28.0	2.8	400	112.0	11.2	1600			

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GATES GUIDELINES FOR INDUSTRIAL HOSE SELECTION

Selection: Simply remember the word **STAMPED**, and what it stands for, and you will be making the right choice.

S - Size

T - Temperature

A - Application

M - Material to be conveyed

P - Pressure

E - Ends

D - Delivery

When using Industrial Hose, make sure you choose right, you use right.

Follow the suggestions given hereunder and you will not go wrong. The right hose is the correct size.

- It meets minimum and maximum temperature requirements.
- It meets the application needs.
- It has the proper lining (or tube) to handle the material conveyed.
- It meets maximum rated working pressures or suction requirements.
- It is installed with the proper ends or fittings.



GENERAL TIPS FOR HOSES

STORAGE -

If you want your hose to last 10 years and more, here are some tips.

- Store hose in cool, dry rooms.
- Store them away from direct sunlight and heat vents.
- Keep them away from arc welders and other electrical equipment.
- Do not open hoses from original wrapping till you actually need them.
- If the hose ends are plugged when shipped, do not unplug them till ready for installation (to keep the inside of hose clean)
- Always store the hose in moderate humid atmosphere at temperature ranging from 50° to 75°
- Do not hang coiled hose on a hook.
- Hose shipped straight should be stored straight.
- Open the packing carefully when using knives or sharp tools.

COUPLINGS -

- Different types of couplings need to be used for different hoses for the sake of human safety and hose assembly life.
- Use proper size couplings and install them correctly.
- Use approved couplings for steam, LP Gas, Corrosive chemicals and petroleum products.
- If the coupling comes in contact with flammable material, make sure it is made of non-sparking material such as brass or aluminium.
- Before installing couplings check them for burrs or sharp edges.
- Make sure the hose ends are cut square before installing the couplings.
- Avoid oil based and permanent lubricant when installing couplings. Water and soap solution is a better alternative.

STATIC ELECTRICITY -

- In some applications, it is important that the hose conducts electricity from the end of one coupling, through the hose, to the other coupling. This electrical bond, called a Static Bond, dissipates the Static Electricity that some materials generate when they pass through the hose. If this electricity is not picked up and conducted away from the material by the hose, a dangerous explosion could result.
- To discharge Static Electricity, static wires are provided in such hoses e.g. Petrol, Sandblast etc.

HOSE MAINTENANCE

Good maintenance results in longer life and safe working environment. Given below are few tips:

- Never exceed pressure rating of a hose.
- Never allow excessive pressure spikes or surges above a hose's maximum rated working pressure.
- Never run over hose with equipment or vehicles such as forklifts.
- Do not pull a hose by its coupling. It can lead to a dangerous failure.
- Never lift a heavy, large-diameter hose by the middle with ends hanging down. This can damaged the hose's internal reinforcement.
- Support large-dia hoses, every 10 feet (approx.) with slings or rope saddles.
- Where hose is exposed to excessive wear in one spot, add an extra protective cover, such as nylon sleeve, or a pad.
- Any hose that has been mishandled, must be re-inspected and should pass a pressure test before it's re-installation.
- All hoses should be visually inspected and pressure tested regularly. This is specially important for hoses in critical applications, such as acid/chemical, steam and petroleum.
- Check for coupling seepage and coupling slippage frequently.



TOUGH



LIGHT



FLEXIBLE

Greenline Industrial Hoses are ideally suited for highly demanding industrial working conditions of India.

Made from Epigard, a series of compounds; each customised for a different industrial application. They outperform the general purpose rubber in every way. They are more flexible, longer lasting and more resistant towards abrasion, heat, chemicals, ozone, and weathering. The whole range exceeds the IS standards.

The process of manufacture of Gates hoses does not involve the use of lead or other environmentally hazardous materials.

The high quality standards maintained by Gates India is reflected in its client list, which reads like a who's who of the industry. Our quality products are approved by Directorate General of Mines & Safety (DGMS) and Directorate General of Quality Assurance (DGQA), Ministry of Defence.

- Government Sector such as Indian Railways, BPCL, HPCL, IBP, IOCL, ONGC...
- Cement Plants like ACC, Birla Cements, Century Cement, Gujarat Ambuja, India Cements, and more.
- Steel Manufacturers viz. SAIL Bhilai, SAIL Bokaro, TISCO, Vizag Steel Plant, Ispat, Jindal...
- Mining Sector such as Eimco Elecon, Simplex, various subsidiaries of Coal India Ltd. and Singareni Collieries Company Ltd.
- Construction & Heavy Equipment Manufacturers viz. Caterpillar India, Claas-India, Escorts Construction, Greaves, Gujarat Apollo, JCB-India, L&T-Case, Schwing Stetter, TIL ...
- Other OEMs such as Ashok Leyland, Cummins India, ELGI, Ferromatik-Milacron, Godrej, Inductotherm-India, Kirloskar Oil Engines, Midco, Tata Motors, UT Ltd., Voltas, Wipro Fluid Power, amongst others.

Gates India has the backing of 90 years experience of the Gates Rubber Company, USA; which is world's most trusted name in Hydraulic and Industrial Hoses.



A Tomkins Company

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