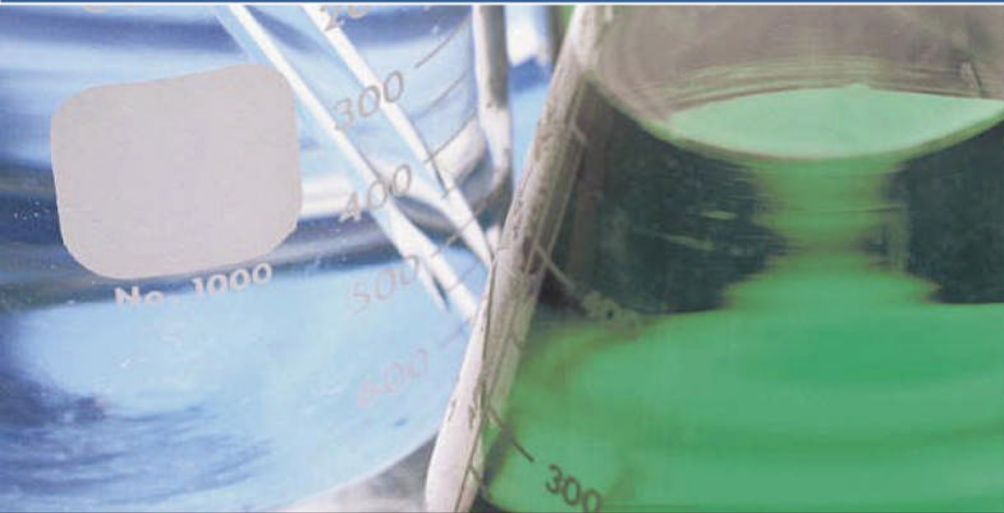


**MSL**





# Mines Services Limited

Linking Industry with Service



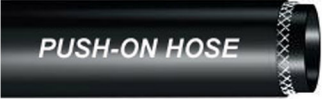

## INDUSTRIAL HOSE PRODUCTS









# AIR HOSE

	Product Name	Description	Temperature	Size	Application
	<b>MINEFLEX 300W</b>	Yellow cut and abrasion resistant rubber cover, braided 300 P.S.I. air hose.	-40C to +85C (-40F to +185F)	1/2" to 4"	For mining, construction, and industrial use. Mandrel built.
	<b>MINEFLEX 400W</b>	Yellow cut and abrasion resistant rubber cover c/w blue stripe, braided 400 P.S.I. air hose.	-40C to +85C (-40F to +185F)	1/2" to 4"	A premium quality mining, construction, and industrial hose. Mandrel built.
	<b>HI-FLEX WIRE BRAID</b>	Yellow cut and gouge resistant synthetic rubber cover c/w red stripe. Reinforced with high tensile steel wire.	-40C to +85C (-40F to +185F)	1/2" to 4"	High pressure air service hose for mining, construction and industrial use. Mandrel built.
	<b>MINEFLEX 300S (JackHammer)</b>	Smooth yellow cut and abrasion resistant rubber cover. Available in lengths up to 700 feet.	-40C to +82C (-40F to +180F)	1/2" to 1"	A long length air hose for construction and general industry.




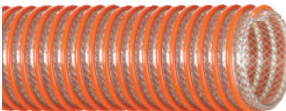
# GENERAL PURPOSE HOSE

	<b>SUPREME FLEX</b>	Smooth red abrasion resistant EPDM synthetic rubber tube and cover.	-40C to +93C (-40F to +200F)	1/4" to 2"	Air, water, agricultural spray solutions and other diluted chemicals. Good resistance to heat and weathering.
	<b>PRIME FLEX</b>	Smooth red nitrile oil, grease, weather and abrasion resistant cover, non-conductive.	-29C to +82C (-20F to +180F)	1/4" to 1-1/2"	A premium quality long length hose for oil based sprays, gasoline, lubricating oils, air, hot water and some chemicals. This hose is non-conductive.
	<b>PUSH-ON</b>	Black, blue, grey, green, yellow or red oil resistant neoprene cover.	-29C to +71C (-20F to +160F)	1/4" to 3/4"	Oil resistant hose for use with push-on fittings. MSHA cover available.
	<b>CLEAR FLEX</b>	Clear smooth reinforced PVC, FDA approved.	-4C to +65C (+25F to +150F)	3/16" to 2"	Air, drinking water, mild chemicals and alkalis. Compounds comply with FDA standards. Certified under NSF-51, NSF-61, USP class-VI, USDA, and ROHS 2002/95/EC specifications.




# WATER DISCHARGE

	Product Name	Description	Temperature	Size	Application
	<b>PREMIUM WATER</b>	Black smooth EPDM tube and cover. Available in lengths up to 700 feet.	-40C to +93C (-40F to +200F)	1/4" to 1-1/2"	A premium rubber garden hose for use on construction sites and general water service.
	<b>MASTER PUMP</b>	Black wrapped cover. Available in maximum lengths of 100 feet.	-32C to +82C (-25F to +180F)	1-1/4" to 12"	Heavy rubber discharge hose used for dewatering and general water service. Mandrel built.
	<b>DURAPUMP</b>	Black abrasion, oil and weather resistant nitrile rubber. Available in 300 foot lengths.	-17C to +82C (0F to +180F)	1-1/2" to 8"	This lightweight, flexible hose is designed as a pump discharge hose for water, oil contaminated water and mild chemicals. (Only suitable for petroleum products with an aromatic content under 30%.)
	<b>POLYPUMP BLUE &amp; GREEN</b> <i>Green is Med Duty</i>	Reinforced blue PVC discharge hose.	-21C to +54C (-5F to +130F)	1-1/2" to 10"	A light duty hose for portable pump and irrigation use. Hose folds flat for ease of coiling and handling.
	<b>POLYPUMP BROWN</b>	Reinforced brown PVC discharge hose. For more demanding applications.	-21C to +54C (-5F to +130F)	1-1/2" to 8"	This is a more rugged version of the blue PVC layflat hose, designed for use where higher working pressures are required.
	<b>SINGLE JACKET</b> <i>(Not Fire Rated)</i>	Extruded synthetic rubber tube with a white, 100%, polyester single jacket cover with red stripe.	-17C to +82C (0F to +180F)	1-1/2" to 2-1/2"	A very economical pump discharge and washdown hose. Not approved for fire fighting service.



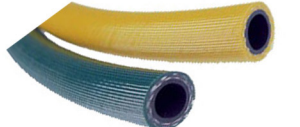
# WATER SUCTION

	<b>MASTER TUFF GAFLO</b>	Black abrasion resistant synthetic rubber tube and cover, c/w wire helix.	-32C to +82C (-25F to +180F)	3/4" to 12"	A heavy duty rubber suction hose for construction, quarries and general use. Suitable for full vacuum.
	<b>POLYTUFF CLEAR &amp; GREEN</b>	Clear PVC with excellent weather and abrasion resistance c/w PVC helix.	-20C to +70C (-4F to +158F)	3/4" to 8"	For construction pumps, septic tank and marine pump out service, mining, and quarry use. PVC is resistant to some chemicals, acids and alkalis. Suitable for full vacuum.
	<b>FLEXTUFF 300 EPDM</b>	Black EPDM c/w green polyethylene helix. Excellent low temperature characteristics.	-40C to +60C (-40F to +140F)	1" to 6"	Lightweight and flexible with abrasion resistant cover for agricultural chemicals, septic service and general industrial use. Suitable for full vacuum.
	<b>KANALINE SR</b>	A higher pressure suction and discharge hose. Orange helix and polyester reinforcement.	-25C to +70C (-13F to +158F)	2" to 12"	Heavy duty suction and discharge ideal for fish suction and dewatering construction sites.





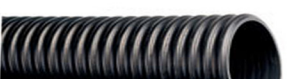
## STEAM & WASHDOWN HOSE

	Product Name	Description	Temperature	Size	Application
	<b>HOT WATER WASH UP</b>	Smooth white high temperature EPDM cover with black heat resistant EPDM tube.	-40C to +93C (-40F to +200F)	1/2" to 3/4"	For general clean-up and hot water washdown service up to 93C (200F) at 50 P.S.I. in dairies, meat packing houses, creameries, food processing and bottling plants. Not suitable for steam service.
	<b>STEAM KING 250</b>	Red, high temperature heat resistant EPDM rubber c/w wire reinforcement.	208C (406F)	1/2" to 2"	An extremely flexible hose for use with saturated steam at temperatures of up to 208C (406F). Not suitable for superheated steam.
	<b>TEXTILE STEAM 100</b>	Red, heat and weather resistant EPDM. This hose is non-conductive.	170C (338F)	1/2" to 2"	For use with saturated steam up to 100 P.S.I. 170C (338F). For thawing, washdown at paper-mills and food plants. This hose is non-conductive.







## PETROLEUM & CHEMICAL

	<b>PETRODEC TANK TRUCK</b>	Black cover, gasoline and oil resistant nitrile with blue stripe.	-35C to +82C (-31F to +180F)	3/4" to 6"	An all purpose suction and discharge hose for gasoline, distillate, kerosene, diesel oil suspensions and emulsions. Also used as hydraulic return line suction hose. Suitable for full vacuum. Maximum aromatic content 50%.
	<b>ALLCHEM UHMW</b>	Chemical and abrasion resistant green EPDM cover, UHMW tube c/w yellow stripe.	-29C to +82C (-20F to +180F)	1" to 3"	The UHMW tube provides an extremely flexible chemical suction and discharge hose that will handle 98% of all common industrial chemicals. Suitable for full vacuum.
	<b>AG SPRAY</b>	Grey, Yellow or Green ribbed cover.	-10C to +70C (+15F to +160F)	3/8" to 3/4"	For spraying or transfer of aqueous or petroleum based herbicides and insecticides.






## MATERIAL CONDUCTING

	<b>HI-LIFE SANDBLAST</b>	Black static conductive synthetic rubber. Highly abrasion resistant tube.	-35C to +82C (-31F to +180F)	1/2" to 3"	For conducting sand, steel shot and other abrasives for blast cleaning.
	<b>UREFLEX 1</b>	Urethane lined PVC cover suction hose. Abrasion resistant.	-40C to +65C (-40F to +150F)	1-1/4" to 8"	Pneumatic conveying of powder, pellets, or granular materials.
	<b>TAN BULKMASTER</b>	Tan corrugated pure gum cover and tube; non-marking.	-35C to +82C (-31F to +180F)	2" to 6"	For transfer of dry, non-oily abrasive materials such as sand, limestone, plastic pellets, sugar, corn, etc. under pressure or vacuum. Suitable for full vacuum.
	<b>MATERIAL CONDUCTING</b>	Black abrasion resistant synthetic rubber cover corrugated to match internal corrugations of external split flange couplings c/w red pure gum tube.	-40C to +71C (-40F to +160F)	2" to 12"	Designed for abrasive discharge and suction service. Split flanged couplings, which can be installed without special tools, allow the hose to be purchased in long lengths and cut as required. Couplings provide full flow, permitting hose to be easily rotated for even wear, and are re-usable.
	<b>180AR</b>	Lightweight, flexible, abrasion resistant corrugated cover.	-40C to +60C (-40F to +140F)	1-1/2" to 8"	Suction and discharge of dry materials such as sand, crushed rock, cement, etc. Suitable for full vacuum.

# FOOD

	Product Name	Description	Temperature	Size	Application
	<b>GREY FOOD SUCTION FDA</b>	Grey nitrile cover c/w red stripe and FDA white nitrile tube.	-35C to +93C (-31F to +200F)	1-1/2" to 4"	For handling most liquid food products including fats and oils without imparting taste or odour. Suitable for full vacuum.
	<b>BREWERS SUCTION FDA</b>	Red nitrile cover c/w yellow stripe and FDA white nitrile tube.	-35C to +82C (-31F to +180F)	3/4" to 3"	For handling beer, wine, fruit juice where taste and aroma must not be affected. The extremely smooth tube resists the collection of bacteria.
	<b>POLYSRING &amp; POLYWIRE</b>	Crystal clear PVC c/w wire helix, manufactured in compliance to applicable FDA requirements.	-4C to +65C (+25F to +150F)	1/4" to 2"	Where full vacuum and a clear non-collapsible hose is required; can be used for milk, beverages and pharmaceuticals. Certified under FDA, USDA, 3A, NSF-51, NSF-61 and ROHS 2002/95/EC specifications.
	<b>200-SFG PVC FOOD SUCTION</b>	FDA approved corrugated PVC cover c/w clear helix.	-20C to +70C (-4F to +158F)	1" to 6" 45mm 57mm	Can be used for any liquids or dry materials for human consumption. Meets FDA requirements. Suitable for full vacuum. Certified under USDA and 3A specifications.
	<b>210-HFG &amp; 212MK PVC FOOD SUCTION</b>	FDA approved smooth PVC cover c/w clear helix.	-20C to +70C (-4F to +158F)	3/4" to 6"	Can be used for any liquids or dry materials for human consumption. Meets FDA requirements. Suitable for full vacuum. Certified under USDA and 3A specifications.
	<b>ST-200-SFG PVC FOOD SUCTION</b>	FDA approved corrugated PVC cover c/w clear helix and static wire.	-20C to +66C (-4F to +150F)	1-1/2" to 6" 45mm 57mm	Pneumatic conveying system for powder or granular materials. Static wire embedded in the helix for protection. Certified under FDA, USDA and 3A specifications.

# AUTOMOTIVE & MARINE

	<b>RUBBER GARAGE EXHAUST</b>	Corrugated hose with interconnecting end.	205C (400F, intermittent use to 600F)	2" to 6"	A crush resistant heavy duty exhaust hose made of specially compounded rubber. Made to resist heat, aging, exhaust fumes, and oil. Individual lengths are easily interconnected. Many accessories available. This hose is to be used only when there is no load on engine.
	<b>METAL GARAGE EXHAUST</b>	Fully interlocked galvanized steel.	-40C to +177C (-40F to +350F)	2" to 7"	Automotive exhaust, ventilating ducting, moderate suction lines, dust collecting, air blower ducting.
	<b>FUEL LINE</b>	Black nitrile, resistant to oil, grease and ozone.	-34C to +125C (-29F to +257F)	3/16" to 5/8"	For conveying fuel in automobiles, trucks, buses, etc. SAE30R7 Type B USCG approved fuel line hose. Not designed for marine use with alcohol blended fuels.
	<b>MARINE EXHAUST HARD &amp; SOFT WALL</b>	Black cover with blue stripe, available in soft-wall and hardwall.	Up to 82C (Up to 180F)	Hardwall	All hose made to USCG specifications. Minimum burst on all sizes is 180 P.S.I. Recommended for working temperatures of up to 82C (180F). Used for wet exhaust in pleasure craft marine engine applications. Specially blended tube for long life under severe conditions.
				1/2" to 6" Softwall 7/8" to 6"	

# DUCTING HOSE

	Product Name	Size	Std. Lgth.	Temperature	Product Description
	<b>150CL PVC</b>	2 1/2" - 18"	25' - 50' - 100'	-13°F to 140°F	<u>Construction:</u> Flexible PVC, rigid PVC helix, smooth bore, corrugated O.D. <u>Applications:</u> Lightweight general ducting for ventilation and grass clippings, leaves, dust and fumes.
	<b>SF-PVCW PVC w/ Wire Helix</b>	1 1/2" - 24"	25' - 50'	-20°F to 165°F	<u>Construction:</u> Flexible PVC, w/ Wire Encapsulated Warestrip Helix , smooth bore, Light Corrugated O.D. <u>Applications:</u> Lightweight general ducting for ventilation and grass clippings, leaves, dust and fumes. Good resistance to oil, alkali and acids
	<b>RUBBER WIRE DUCT</b>	2" - 12"	25' - 50'	-40°F to 220°F	<u>Construction:</u> EPDM rubber, metal wire helix, smooth bore, slightly corrugated O.D. <u>Applications:</u> General ducting and blower applications. For use with lightweight abrasives such as sawdust, grass clippings, street refuse and cotton pickers.
	<b>RUBBER WIRE DUCT w/ Scuff Guard</b>	2" - 12"	25' - 50'	-40°F to 220°F	<u>Construction:</u> EPDM rubber, metal wire helix, smooth bore, slightly corrugated O.D. <u>Applications:</u> Same as the above product, but the external wearstrip makes it ideal for "light dragging" applications.
	<b>NC-2 Double Ply Neoprene</b>	1 1/2" - 36"	25' - 50' Special 10' Lengths	-40°F to 250°F	<u>Construction:</u> Polyester fabric, Neoprene coated Two ply fabric over fully encapsulated spring steel wire helix <u>Applications:</u> Particle control, Pellet and chip handling Areas of high vibration & Large volume fume control
	<b>SF-TPRGS TPR w/ Warestrip</b>	1 1/2" - 24"	25' - 50' 8" & Up 25' Lengths	-40°F to 275°F Intermittent to +300°F	<u>Construction:</u> Thermo Plastic Rubber with molecularly bonded wear w/ wire helix <u>Applications:</u> Excellent flex fatigue resistance Light duty material handling Hot exhaust extraction Medium duty chemical fume removal
	<b>L9 Double Ply Silicone (High Temp)</b>	1 1/2" - 24"	12' - 24' - 33' Max Length	-60°F to 500°F Intermittent to 300°F	<u>Construction:</u> Silicone coated fiberglass - 2 plies Molecular bonded, encapsulated wire helix <u>Applications:</u> Medium pressure hot air-handling Handling of combustion by-products, Economical style for stationary or low movement exhaust control ***Not recommended for hose reels***
	<b>SN Silicone Nomex (High Temp)</b>	2" - 24"	12' - 24' - 33' Max Length	-60°F to 500°F Intermittent to 300°F	<u>Construction:</u> 1 ply silicone coated fibreglass, 1 ply Nomex <u>Construction:</u> molecular, bonded wire encapsulated helix <u>Applications:</u> High temperature air movement, Exhaust hose reels Garage fume control involving constant flexing ***For use with hose reels***
	<b>SF-TPUGS &amp; SF-TPUHD (Urethane)</b>	1 1/2" - 24"	25' - 50' 10" & Up 25' Lengths	-65°F to 200°F	<u>Construction:</u> TPUGS uses 0.030" clear extruded urethane made with FDA approved materials. & TPUHD uses 0.045" blue extruded urethane & is UV stabilized for outdoor use. <u>Applications:</u> Lavatory waste, Pellet material transfer, Excellent low temperature flexibility, Leaf collection equipment and Medium duty material handling.
	<b>NFDC Duct Cleaning</b>	4" - 12"	25' - 50'	-40°F to 158°F	<u>Construction:</u> EPDM rubber, polypropylene helix, smooth bore, corrugated O.D. <u>Applications:</u> Heavy-duty ducting applications such as duct cleaning, commercial grass and leaf collection, cement dust recovery for floor finishing, blast cabinet dust collection systems, and grain auger downspouts.