

Hose & Tubing



- Sanitary and Re-usable Hoses
- Hose Applications
- Sanitary Harco/Titan Hose
- Strahman Hoses
- Hose Reels

Since 1964

HARCO

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Sanitary & Reusable

ReSeal™ Couplers have all the features you require in a sanitary hose and coupler assembly:

Sanitary- full-flow compression seal prevents bacteria build-up.
CIP'able- no disassembly for cleaning like clamped-in couplers.
Safe- no hose end blow-off, no straps or bands to injure workers.
Approved- in compliance with regulatory standards.

But ReSeal couplers have one more feature that no other sanitary coupler can match... they are totally reusable!

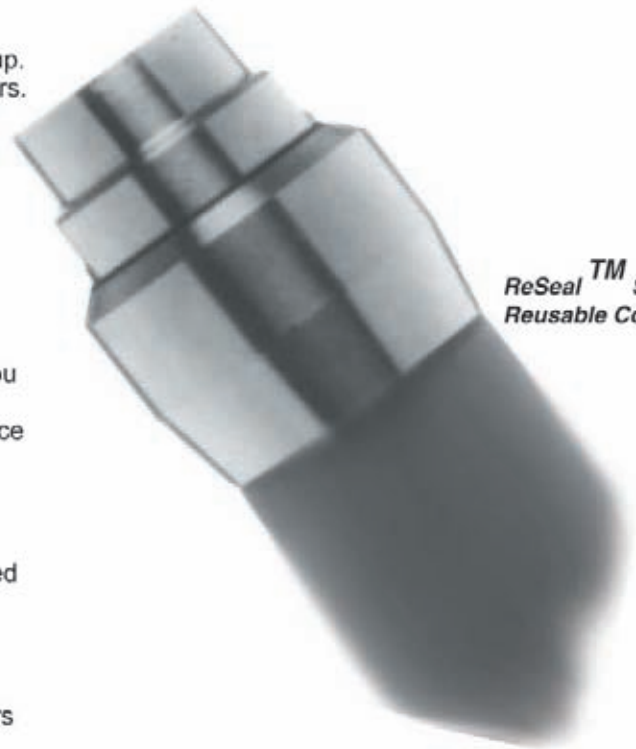
That's right! With ReSeal couplers, when your sanitary hose assembly gets kinked, run over, or simply wears out, the couplers can be reattached to a brand new length of hose. You still have to buy a new hose... but you don't have to buy new couplers! That's usually a savings of 50% to 90% over the price of a complete new assembly!

Here's how it works. ReSeal couplers utilize a 360 degree compression seal that eliminates the possibility of product wicking between the coupler and the hose. This seal is created by extremely high-torque required to attach the unique two-piece stainless steel coupler to the hose end.

Because of this high-torque requirement, ReSeal couplers should be reattached by factory trained Authorized Distributors whenever possible. They use special machinery to assure proper installation and will certify that your ReSeal coupler meets sanitary specifications. However, in an emergency, ReSeal couplers can also be reattached in the field with a special wrench and mandrel.

ReSeal™ Couplers/SaniGard™ Hose provide complete sanitary assembly systems. ReSeal couplers are designed and manufactured exclusively for use on SaniGard sanitary hoses to create integrated assemblies. SaniGard offers processors the widest variety and highest quality food grade hoses available. Models include Suction/ Discharge, Crush Resistant, Discharge only, Teflon lined, and High-Temperature. Even PVC. Because ReSeal couplers can be used again and again, you don't have to worry about high replacement costs!

ReSeal/SaniGard assemblies are available in 3/4" thru 4" sizes with a variety of end connection. Independent university tests have verified ReSeal/SaniGard assemblies as sanitary. They have been accepted for use in USDA inspected Dairy, Egg, and Meat & Poultry plants, and meet the construction criteria of the Pasteurized Milk Ordinance. Re Seal couplers meet or exceed all 3A Surface finish standards. SaniGard hose meets the FDA-CFR and 3A specification.



ReSeal™ Sanitary Reusable Coupler



SaniGard™ Hose

SANITARY HOSE!

Assembled in-house on our new hydraulic assembly unit.

Large inventory for immediate delivery.

Special fittings available – weld and polished in house.

Available with Tri- clamp, Bevel Seat, John Perry, I line and many others.

SANI-SEAL COUPLING DESIGN IS CONTAMINATION FREE AND C.I.P. SUITABLE

Seamless tube is manufactured on stainless steel mandrel and exceeds 3-A standard 1800, USDA requirements and meets the construction criteria of the *Grade "A" Pasteurized Milk Ordinance*.

Crush resistant or suction and discharge hose up to 225 degrees F continuous.

Uniform seal at hose to coupling junction eliminates contamination build up.

Smooth contour for handling ease eliminates injuries.

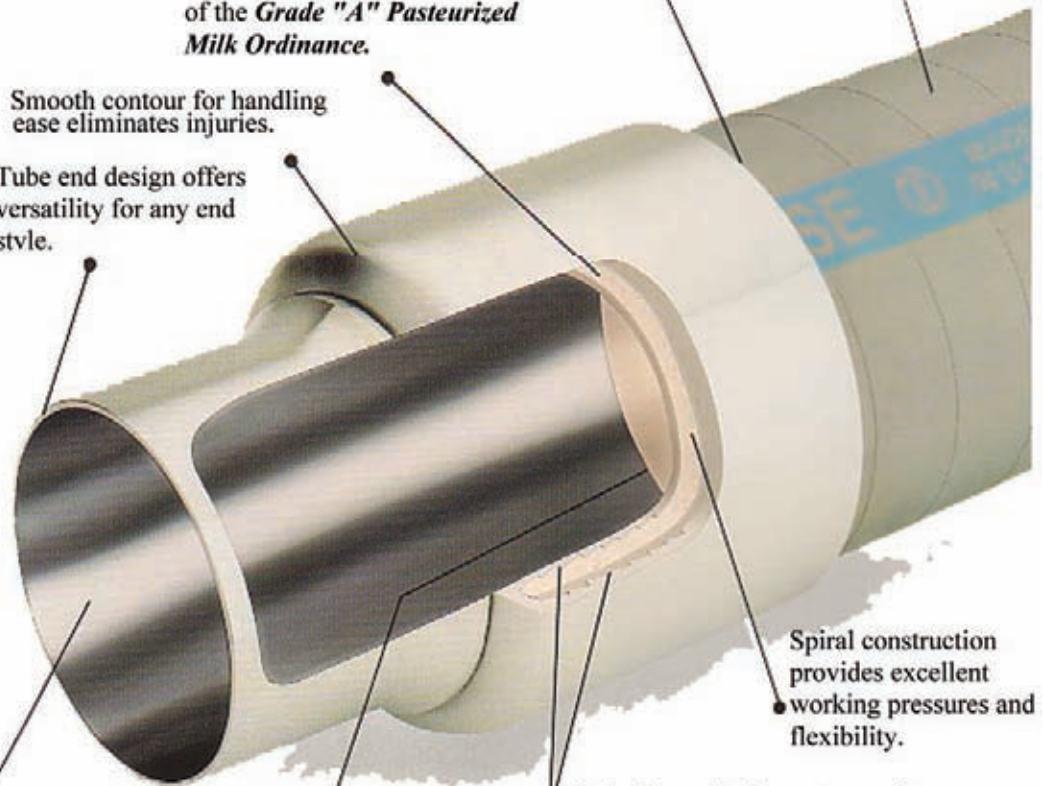
Tube end design offers versatility for any end style.


Spiral construction provides excellent working pressures and flexibility.

Barbed serration's on stem and ferrules allows excellent coupling retention for safety.













Internal surface finish exceeds 3-A standards and is produced from high grade stainless steel.










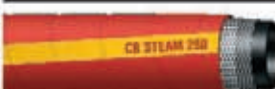

Inside diameter of hose and couplings are identical, smooth bore design eliminates internal obstructions. A totally sanitary seal.



		HOSE USAGE GUIDE															
		APPLICATIONS															
PRODUCT	PSI	Tank Truck	Heavy Abrasives	Chemical	Suction	Water S&D	Vacuum	Food Grade	Petroleum Discharge	Fume Extraction	Wine and Spirits S&D	Pressurized Gases	Small Bore Liquid Disch.	Compressor Hose	High Temperature	Blower Hose	Water Discharge
Air																	
Jackhammer - Yellow.....	1																
Contractors Air.....	1																
Super Service Air.....	1																
Steelflex Air.....	1																
General Purpose																	
EPDM General Purpose.....	1																
Premium General Purpose- Non Conductive.....	1																
Clear Reinforced PVC (Food Quality).....	1																
Push - On.....	1																
Water Discharge																	
Blue/Brown/Green PVC Layflat.....	1																
Oroflex/Duraflex Rubber Layflat.....	1																
Contractors Water Discharge - Garden Hose.....	2																
Contractors Water/Contractors Plus Water Discharge.....	2																
Single Jacket Industrial Mill.....	1																
Pressure Washer.....	2																
Water Suction																	
Saturn PVC Water S&D.....	2	*			*	*											*
Saturn White PVC Water S&D.....	2	*			*	*											*
Superflex PVC S&D.....	2	*			*	*											*
EPDM Water S&D.....	2	*			*	*											*
Rubber Water S&D.....	2	*			*	*											*
Petroleum																	
Tank Truck.....	3	*			*	*		*									*
Petroleum Discharge.....	3	*			*	*		*									*
Super Black 250.....	3	*			*	*		*									*
LW Arctic Superflex 150 Petroleum.....	3	*			*	*		*									*
H.O.T Oil Tank Truck.....	3	*			*	*		*							*		*
LW Petroleum Tank 150 S&D.....	3	*			*	*		*									*
Petroleum Discharge 250.....	3	*			*	*		*									*
Steam																	
Steam Textile.....	2											*					
Steam 250.....	2											*					
Chlorobutyl Steam 250.....	2											*					
Chemical																	
Chemical.....	4	*		*	*			*									
Flexchem.....	4	*		*	*			*									
Material Handling																	
Aztec Slurry Hose.....	3	*															
Bulkmaster Softwall.....	3	*	*														
Sandblast.....	3	*															
Industrial Vacuum.....	3	*	*														
Material Handling Polyurethane and PVC																	
PVC/CVD.....	5									*							
ARI Suction.....	4	*	*		*	*	*		*								
B-Flex/ B-Flex Static (Food Grade).....	4	*	*		*	*	*	*	*								
Neptune/Neptune Static PVC Suction (Food Grade).....	4	*	*		*	*	*	*	*								
PU Vac/PU Vac Lite (FDA Quality).....	4	*	*		*	*	*	*	*								
Food																	
Bacco - PVC Wine Suction (Food Quality).....	4							*			*						
Brewers & Beverage Discharge.....	4							*			*						
Foodflex/Clearflex PVC S&D (Food Quality).....	4				*			*									*
Wirevac/Super Wirevac (Food Quality).....	4	*			*		*	*									*
Ducting																	
TPR/RFH.....	5			*						*							
RFH-White.....	5			*				*		*					*		
Super Vac-U-Flex.....	5						*		*								
NC1/NC2.....	5								*								
Spiratube - TDS & TDHS.....	5								*								
TPU Vac-U-Flex.....	5								*								
L-9 Flex Flyte.....	5								*						*		
1PN-EPW.....	5								*							*	
Durathane LD/MD/UFID.....	5	*							*								*











Hose & Tubing

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Air Hoses - Also Available: Montana, Hi-Temp Steelflex Air, Oroflex Air & Hot Air Blower					
	Yellow cut and abrasion resistant cover with blue stripe. Tube is oil resistant synthetic rubber.	A superior quality mining, construction and industrial hose.	400 PSI	1/2" - 4"	-35°C to +80°C -30°F to +180°F
Super Service Air					
	Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	For mining, construction, and industrial use.	250 - 300 PSI	1/2" - 4"	-35°C to +80°C -30°F to +180°F
Contractors Air					
	Yellow cut and abrasion resistant cover with red stripe. Tube is oil resistant synthetic rubber.	High pressure steel reinforced air service for mining, construction and industrial use. More resistant to external abuse than textile air hose. Mandrel built.	400 - 1000 PSI	1/2" - 4"	-35°C to +80°C -30°F to +180°F
Steelflex Air					
	Smooth Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	An economical air hose for jackhammer and other uses on construction sites. Also for general industrial use.	300 PSI	3/4"	-35°C to +80°C -30°F to +180°F
Jackhammer					
General Purpose - Also Available: General Purpose, Urethane General Purpose, Arctic General Purpose, & Self Storing Air					
	Red, oil, grease, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.	250 - 300 PSI	1/4" - 1 1/2"	-32°C to +85°C -25°F to +185°F
Premium General Purpose - Non Conductive					
	Smooth red abrasion and weather resistant EPDM synthetic rubber tube and cover.	Air, water, agricultural spray solutions, and other dilute chemicals. Excellent resistance to heat and weathering. Also resists animal fats, vegetable oils and Methyl Ethyl Ketone.	150 - 250 PSI	1/4" - 2"	-30°C to +93°C -20°F to +200°F
EPDM General Purpose					
	Clear smooth PVC.	An economical FDA quality hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product.	75 - 250 PSI	3/16" - 2"	-5°C to +65°C +25°F to +150°F
Clear Reinforced PVC					
	Black, Grey, Red, Blue, or Yellow oil, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions.	250 - 300 PSI	1/4" - 3/4"	-32°C to +80°C -25°F to +180°F
Push On					
Water Discharge - Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown & White Sanitary					
	Black abrasion, weather and oil resistant nitrile rubber cover with oil resistant nitrile rubber tube.	A lightweight high pressure, extremely strong hose for general water and oil discharge, and for some chemicals.	150 - 250 PSI	1" - 8"	-20°C to +80°C 0°F to +180°F
Oroflex 10 Layflat					
	Black abrasion, weather and oil resistant nitrile rubber.	This is a lightweight high pressure, extremely strong hose for general water discharge service. Ideal for rental service where long life and competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water.	150 - 200 PSI	2" - 3"	-20°C to +80°C 0°F to +180°F
Duraflex - Rubber Layflat					
	Smooth synthetic rubber.	General industrial service where approved fire hose is not required.	150 - 200 PSI	1 1/2" - 3"	-35°C to +80°C -30°F to +180°F
Single Jacket Industrial Mill					
	Blue, Brown or Green PVC impregnation.	Light (Blue) to Heavy (Brown and Green) duty layflat hose for portable pump and irrigation use.	30 - 150 PSI	3/4" - 12"	-10°C to +60°C +15°F to +130°F
PVC Layflat					











PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Discharge - Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown & White Sanitary					
	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	A lightweight water discharge hose which is ideal for use with portable pumps, and general water discharge service.	75 - 100 PSI	1 1/4" - 12"	-35°C to +80°C -30°F to +180°F
Contractors and Contractors Plus Water Discharge					
	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	For use on construction sites and general water service.	150 - 300PSI	1/2" - 1"	-35°C to +80°C -30°F to +180°F
Contractors Water Discharge - Industrial Garden Hose					
	Smooth cover blue and black (also wrapped version) oil resistant synthetic rubber cover. One high tensile steel braid with oil resistant synthetic rubber tube.	Extremely flexible, compact hose for use on pressure washers with working pressures up to 3000 psi. Available in 4500 psi, 250°F.	3000 PSI	3/8"	-29°C to +100°C -20°F to +212°F
Water Suction - Also Available: EPDM Aggie Water S & D & Pumpflex Water Suction					
	A hose enhanced with nitrile, a feature that ensures greater flexibility and ease of handling at very low temperatures.	To be used for the cleaning and purging of septic tanks and cesspools. It can also be used in more general applications where great flexibility is required at very low temperatures.	20 - 30 PSI 17 - 20" HG	2" - 8"	-40°C to +60°C -40°F to +140°F
Rubber Water S & D					
	Black smooth abrasion and weather resistant synthetic rubber.	A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.	50 - 200 PSI 29" HG	3/4" - 12"	-30°C to +65°C -22°F to +150°F
	Clear abrasion and weather resistant extra soft low temperature PVC with blue helix	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Soft low temperature compounds allow for increased flexibility.	40 - 85 PSI 16 - 26" HG	3/4" - 6"	-25°C to +65°C -14°F to +150°F
Saturn White PVC Water Suction and Discharge Hose					
	Clear abrasion and weather resistant PVC with white helix.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Can also be used in air seeder applications.	40 - 85 PSI	3/4" - 6"	-20°C to +65°C -4°F to +150°F
	Green polyethylene and Black EPDM.	Agricultural suction, general industrial use where high working pressures are not required.	35 - 70 PSI 20 - 28" HG	1 1/4" - 6"	-35°C to +60°C -30°F to +140°F
Steam					
	Red, heat, weather and abrasion resistant EPDM synthetic rubber tube and cover.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.	250 PSI	1/2" - 3"	-40°C to +210°C -40°F to +406°F
CB Steam 250					
	Red abrasion resistant EPDM cover with Chlorobutyl synthetic rubber tube.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI. Chlorobutyl tube has a low permeation factor resulting in resistance to popcorning of tube.	250 PSI	1/2" - 2"	-40°C to +210°C -40°F to +406°F
	Red, heat, weather and abrasion resistant EPDM synthetic rubber tube and cover.	For use with saturated steam up to 100 PSI, 170°C(338°F). For thawing, wash-down at papermills and food plants and other applications where a steel reinforced hose is not suitable.	100 PSI	1/2" - 2"	-40°C to +170°C -40°F to +338°F
Textile Steam					

Hose & Tubing

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Petroleum - Also Available: <i>Agricultural Farm Tank, Arctic Tank Truck, Tank Truck Drop, SAE100R4, W187 Vapour Recovery, Hot Tar & Asphalt & Tank Truck Drop 5000</i>					
 Tank Truck	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI 29" HG	3/4" - 6"	-35°C to +93°C -30°F to +200°F
 Petroleum Discharge	Red, heat, oil and weather resistant Neoprene cover with nitrile tube.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	150 - 200 PSI	3/4" - 4"	-35°C to +88°C -30°F to +190°F
 Super Black 250	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 250 PSI. May also be used as hydraulic return line and suction.	250 PSI	2" - 6"	-35°C to +93°C -30°F to +200°F
 LW Arctic Superflex 150 Petroleum	Blue weather and oil resistant synthetic rubber specially compounded for arctic service. Corrugated with white stripe.	Specially designed to remain flexible while handling a wide range of petroleum products, including gasoline and diesel under arctic conditions.	150 - 250 PSI	1 1/2" - 4"	-54°C to +65°C -65°F to +150°F
 H.O.T Oil Tank Truck	Black, abrasion and oil resistant synthetic rubber with red stripe.	Specially designed for conveying hot oil and/or Glycol at temperatures up to 120°C (250°F).	150 PSI	2" - 4"	up to +120°C 250°F
 LW Petroleum Tank 150	Black, abrasion, gasoline and oil resistant synthetic rubber with green stripe.	An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI	2" - 6"	-40°C to +93°C -40°F to +200°F
 Petroleum Discharge 250	Black, heat, oil and weather resistant Neoprene.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	250 PSI	2" - 6"	-35°C to +88°C -30°F to +190°F
Material Handling - Also Available: <i>Tan Bulkmaster, Furnace Door Cooling, Concrete Boom, Concrete Placement & Bulkmaster Hardwall</i>					
 Aztec	Thick black corrugated abrasion and weather resistant synthetic blend cover. Red 3/8" thick super abrasion resistant natural rubber tube.	Primarily designed for handling abrasive slurries in mines and quarries. Can also be used for dry material handling of sand, gravel, grain, slag, and other such materials. External re-usable bolt on flanges allow for ease of installation, and uninterrupted free flow.	150 PSI 30" HG	3" - 12"	-40°C to +70°C -40°F to +160°F
 Bulkmaster Softwall	Black abrasion and weather resistant synthetic rubber cover with black abrasion resistant natural rubber tube. Green stripe on 1/4" thick tube.	Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.	75 PSI	3" - 6"	-30°C to +80°C -25°F to +180°F
 Sandblast	Black static conductive synthetic rubber cover with thick black static conductive abrasion resistant natural rubber tube.	For conducting sand, steel shot, and other abrasives for blast cleaning.	150 PSI	1/2" - 3"	-35°C to +80°C -30°F to +180°F
 Industrial Vacuum	Black weather and abrasion resistant cover with black abrasion resistant pure gum rubber tube.	For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.	40 PSI 10 - 24" HG	1" - 6"	-30°C to +80°C -25°F to +180°F

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Chemical - Also Available: Hypalon Acid S & D, Viton Lined S & D, EPDM Acid S & D					
 Chemical	Green smooth chemical resistant EPDM rubber cover with cross-linked polyethylene tube.	The cross-linked polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 90% of known chemical and petroleum products in both suction and discharge applications.	150 PSI 29" HG	1/2" - 4"	-29°C to +65°C -20°F to +150°F
 Flexchem	Green corrugated chemical resistant EPDM rubber with UHMW polyethylene tube.	Similar to Chemical hose above but may be used at lower temperatures. More versatile than our Chemical hose, Flexchem handles 98 per cent of known chemicals and can be steam cleaned. Corrugated cover results in a more flexible hose.	150 PSI 29" HG	3/4" - 4"	-40°C to +65°C -40°F to +150°F
Material Handling Polyurethane and PVC - Also Available: SP Abrasion/SP Static Abrasion & Grey PVC Vacuum					
 B Flex/B Flex Static	Corrugated clear PVC with cream coloured rigid PVC helix.	Conveying of dry powders, grains and plastic pellets where viewing the product is important. Not recommended for handling liquids.	40 PSI 20" HG	1" - 3" and 39, 45, 57mm	-10°C to +60°C +15°F to +140°F
 Neptune Suction/Neptune Static Suction/Neptune PU	Corrugated clear PVC with clear rigid PVC helix. Also available with polyurethane liner	Suction and discharge of liquids, grains, plastic pellets and powders where moderate abrasion is a factor. Built in static wire assists in dissipating static electricity. Use Neptune PU for more abrasive applications.	20 - 60 PSI 24 - 28" HG	1 1/2" - 8" and 57mm	-10°C to +65°C +15°F to +150°F
 PU Vac/PU Vac Lite	Corrugated clear abrasion and weather resistant Polyurethane. PU Vac has a grey PVC helix and PU Vac Lite has a cream coloured PVC helix.	Ideal for applications where conventional rubber or PVC hose will wear rapidly, i.e. grain transfer, abrasive powder recovery, leaf collection. Not recommended for handling liquids.	15 - 45 PSI 8 - 20" HG	1" - 8" and 60mm, 80mm	-30°C to +65°C -22°F to +150°F
 ARI	This hose has a tube that is an alloy of polyurethane and PVC with a vinyl modified nitrile cover. Tube and cover is a specially formulated technical alloy that makes this hose antistatic.	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash.	60-75 PSI 24 - 28" HG	2" - 8"	-34°C to +65°C -30°F to +150°F
Food - Also Available: Pure Gum Tubing, Polyethylene Tubing, Clear Vinyl Tubing & Brewer's Suction					
 Bacco	Smooth clear, food grade PVC non-marking with red rigid OVC helix.	Alcoholic beverages up to 25% alcohol content. Fruit juices, soft drinks and other liquid foodstuffs. Also suitable for dry bulk foodstuffs.	75 - 100 PSI 29" HG	3/4" - 5" and 30 - 90mm	0°C to +65°C +32°F to +150°F
 Brewers and Beverage Discharge	Red abrasion resistant natural rubber tube and cover.	Will handle a wide range of non fatty-oily food products up to 80°C where taste and aroma must not be affected.	140 PSI	3/4" - 3"	-35°C to +80°C -30°F to +180°F
 Wirevac/Super Wirevac	Smooth clear PVC with wire helix. Super Wirevac has additional layer of fabric reinforcement.	An extremely flexible transparent hose for use where full vacuum performance is required while monitoring the contents of the hose. Ideal for use with most food-stuffs, cosmetics, beverages, and a wide range of chemical solutions. Also suitable for lubricating oils and animal fats.	45 - 250 PSI 28" HG	1/4" - 3"	-10°C to +65°C +15°F to +150°F
 Foodflex & Clearflex PVC S & D	Clear PVC non-marking. Foodflex has a cream colour PVC helix, Clearflex has a clear helix.	For dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar etc. Clear wall allows visual inspection of the product.	80 - 100 PSI 28" HG	3/4" - 4"	0°C to +65°C +32°F to +150°F

Other Hoses Available: Auto Heater Hose, Marine Hardwall/Softwall/Fuel Fill Hose, Silicone Coolant and Heater Hose, Garage Exhaust Hose, Welding Hose, Pressure Washer Hose, Paint Spray Hose, Auto Fuel Line Hose.

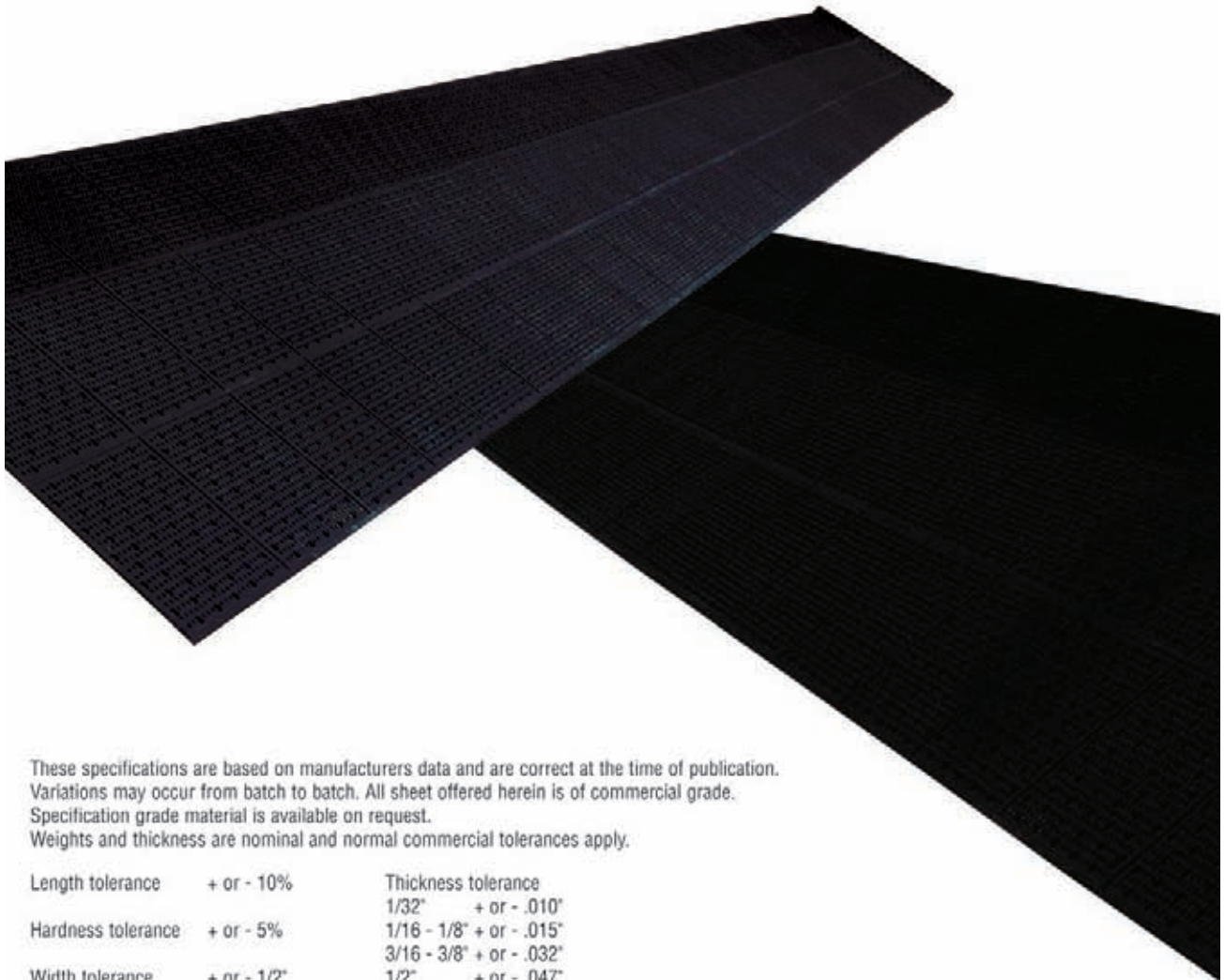
<i>Ducting</i>	DESCRIPTION	TEMPERATURE	SIZES	LENGTHS
	SUPER VAC-U-FLEX High tensile fibre reinforced PVC cover bonded to a coated spring steel wire helix.	-20°F to +150°F -30°C to +65°C	3/4" - 4"	25'/50'
	TDS/TDHS One/two ply vinyl-coated fabric with orange vinyl scuff-strip, spring steel wire helix and smooth bore. Meets UL 940-V flammability rating.	15°F to +200°F -10°C to +94°C	3" - 12"	25'
	RFH-WHITE A wire reinforced, White TPR elastomer, with good resistance to abrasion and chemicals. Excellent low and high temperature properties makes this truly duct versatile. For use in pharmaceutical and dry food applications. No cements, glues or adhesives are used in the manufacturing process. Materials used are FDA acceptable. Temperature range - 60°F to 275°F intermittent to 300°F.	-60°F to +275°F (int to 300°F) -51°C to +135°C (int to 149°C)	1 1/2" - 18"	10'/25'
	1PN (NC-1)/2PN (NC-2) Neoprene impregnated polyester fabric, enclosed steel wire helix; integral liner. One ply (1PN) or Two ply (2PN) construction for general purpose applications.	-40°F to +250°F -40°C to +121°C	1 1/4" - 24"	25'
	TPR/RFH A wire reinforced, TPR elastomer, with good resistance to abrasion, chemicals and weathering. Excellent low and high temperature properties makes this a truly versatile indoor/outdoor ducting. For general dust and fume extraction, sawdust and other mildly abrasive powders. Available with a wear strip to better resist external abrasion. No cements, glues or adhesives are used in the manufacturing process.	-60°F to 275°F (int to 300°F) -51°C to +135°C (int to 149°C)	1 1/2" - 24"	25'/50'/100'
	L-9 FLEX FLYTE Silicone rubber coated fibreglass fabric with spring steel wire helix. Offers lightweight and maximum flexibility coupled with high temperature resistance and has a rubber coated fibreglass liner for smoother flow and higher pressure ratings.	-75°F to +500°F (int to 600°F) -60°C to +260°C (int to 316°C)	3/4" - 12"	12'
	UFD/DURATHANE A wire reinforced two/three/four ply polyurethane duct with excellent abrasion resistance, low temperature and chemical resistance. HD version available for extra abrasion resistance. FDA materials used to manufacture.	-60°F to +180°F -51°C to +93°C	2" - 18"	25'/50'
	TPU VAC-U-FLEX A flexible smooth clear polyurethane elastomer bonded to a coated spring steel wire helix. Features high abrasion and puncture resistance and excellent chemical and oil resistance.	-40°F to +200°F -40°C to +93°C	3/4" - 6"	25'
	CVD/PVC A medium weight extremely flexible wire reinforced PVC duct suitable for fume removal, light dust collection and general ducting. Materials used in CVD clear are FDA acceptable.	-20°F to +180°F -28°C to +82°C	1" - 18"	25'/50'
	1PN-EP/1PN-EPW Wide pitch, Neoprene impregnated cotton fabric with enclosed spring steel wire helix. Available in yellow, orange and black. Also available with black wear strip. Ideal for applications where maximum flexibility and retractability are required.	-40° F to +250° F -40° C to +121° C	4" - 24"	25'

Ducting Also Available: Thermoduct, Vac-U-Lok, L1 Flex Flyte, U-1 Flex Flyte, TPE Vac-U-Flex, Flex Flyte R, VF Flex Flyte, SLP-10 Flexvent, 2CN, 2NN, 1PN-PP, Therma-Cool, 333 Insulation Blowing, Heater/Destructor.

Sheet Rubber

Product	Tensile (PSI)	Elongation (%)	Temp Rating	General Characteristics
BUTYL 60	1250	350	0°C to 110°C	Excellent ozone & weather resistance. Very good heat resistance, low gas permeability
EPDM 60	500	250	-25°C to 110°C	Same as Butyl above.
HYPALON 60	1200	300	-29°C to 121°C	Good flame and acid resistance. Low oil and solvent resistance.
NEOPRENE 50/60/70	500	250	-25°C to 85°C	Good resistance to heat, oils, some chemicals & solvents.
NEOPRENE DIAPHRAGM	500	250	-25°C to 85°C	Same as Neoprene above but with higher tear strength.
NITRILE 60	500	250	-20°C to 80°C	Very good oil resistance.
PURE GUM 40	2500	600	-34°C to 65°C	Excellent cut and abrasion resistance. Excellent resilience.
RED SHEET	500	250	-20°C to 75°C	Low grade packing material.
SBR 50/60/70	500	250	-20°C to 75°C	Good general purpose sheet. Poor oil & chemical resistance.
SBR 80	500	250	-20°C to 75°C	Same as SBR above.
SILICONE 60	1000	300	-45°C to 200°C	Excellent heat resistance, poor abrasion and fuel resistance.
VITON 75	1200	600	-20°C to 250°C	Excellent fuel resistance at elevated temperature.
WHITE NITRILE	1200	600	-30°C to 100°C	Good oil resistance. Food quality.

*Premium Specifications available upon request.



These specifications are based on manufacturers data and are correct at the time of publication. Variations may occur from batch to batch. All sheet offered herein is of commercial grade. Specification grade material is available on request. Weights and thickness are nominal and normal commercial tolerances apply.

Length tolerance	+ or - 10%	Thickness tolerance	
		1/32" + or - .010"	
Hardness tolerance	+ or - 5%	1/16 - 1/8" + or - .015"	
		3/16 - 3/8" + or - .032"	
Width tolerance	+ or - 1/2"	1/2" + or - .047"	
		3/4 - 1" + or - .063"	

Cam & Groove Fittings

Cam and Groove Pressure Chart by Material

Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	250	175	125
3/4"	250	250	250	250	175	125
1"	250	250	250	250	175	125
1-1/4"	250	250	250	250	150	125
1-1/2"	250	250	250	250	150	125
2"	250	250	250	250	150	125
2-1/2"	150	200	100	150		125
3"	125	200	100	125	100	
4"	100	100	100	100	50	100
5"	75	75		75		
6"	75	75		75		
8"	50					
10"	50					

Part A
Male Adapter



Female NPT

Part B
Male NPT



Female Coupler

Part C

Hose Shank



Female Coupler

Part D

Female NPT



Female Coupler

Part E

Hose Shank



Male Adapter

Part F

Male Adapter



Male NPT

Dust Cap



Female Coupler

Dust Plug



Male Adapter

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326.
These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Couplings

Specialty Stainless & Aluminum Cam and Groove Fittings



Combination Nipples,
Expanders and Reducers



90° Polypropylene

Strainers & Foot Valves



Mining & High
Pressure



High Pressure
Clamps



Punch Lock Tools & Strapping Tools



Clamps



Ball Valves & Adapters



Sandblast



Universal &
National
Fittings



Hose Safety Cables

