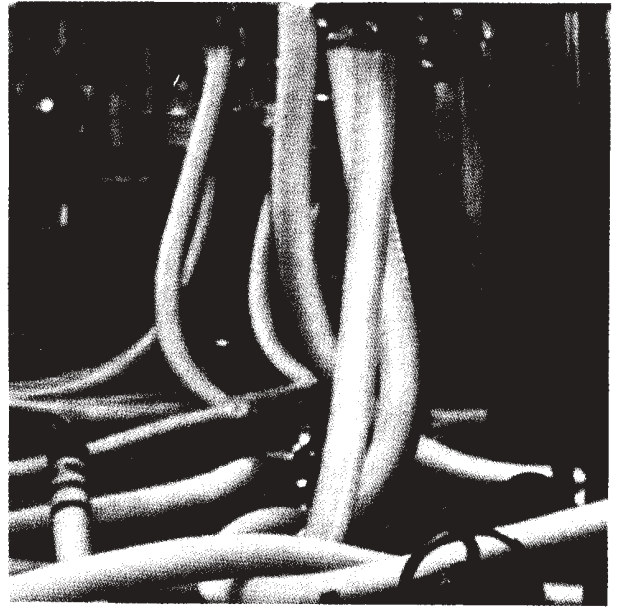
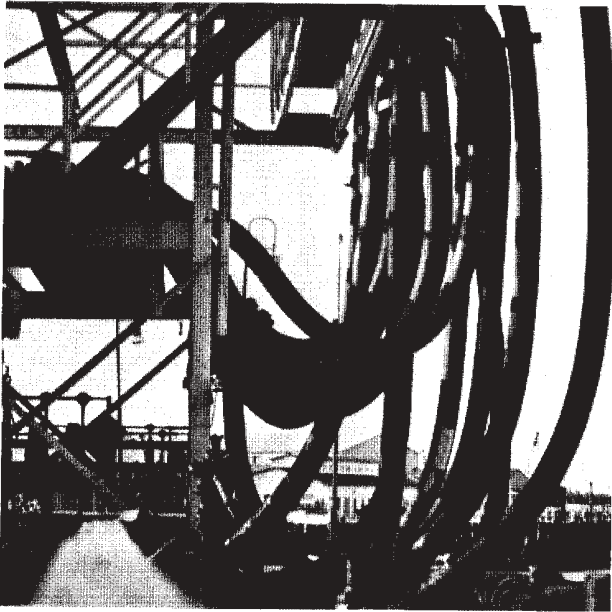


# Quality Industrial Rubber Goods Since 1921

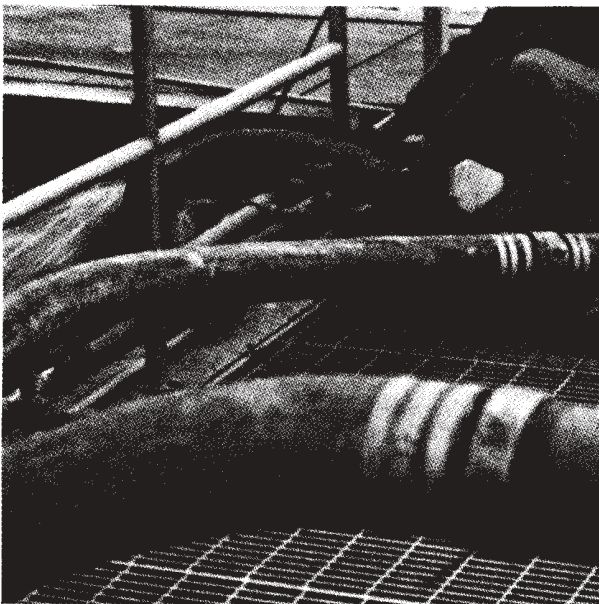


**Potomac** RUBBER COMPANY, INC.

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# HOSE PRODUCTS



## Physical Characteristics of Hose

### Hose Tube and Cover Materials

The tube and cover materials used in the various hose styles are selected to give the best possible performance in the application for which each style is designed. Today there is a wide range of basic elastomers from which to choose. In addition, many types can be blended together in almost unlimited combinations to obtain improvements in specific properties.

### Rubbers Most Commonly Used in Hose

ASTM DESIGNATION D1418	NAME	COMPOSITION	GENERAL PROPERTIES
CR	Neoprene	Chloroprene	Good weathering resistance. Flame retarding. Moderate resistance to petroleum-based fluids. Good physical properties.
NR	Natural	Isoprene, natural	Excellent physical properties including abrasion and low temperature resistance. Poor resistance to petroleum-based fluids.
IR	Polyisoprene	Isoprene, synthetic	Same properties as natural rubber.
IIR	Butyl	Isobutylene-isoprene	Very good weathering resistance. Low permeability to air. Good physical properties. Poor resistance to petroleum-based fluids.
NBR	Buna N	Nitrile-butadiene	Excellent resistance to petroleum-based fluids. Moderate resistance to aromatics. Good physical properties.
SBR	SBR	Styrene-butadiene	Good physical properties, including abrasion resistance. Poor resistance to petroleum-based fluids.
CSM	Hypalon*	Chloro-sulfonyl-polyethylene	Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Fair resistance to petroleum-based fluids.
EPDM	Ethylene Propylene Rubber	Ethylene-propylene-diene-terpolymer	Excellent ozone, chemical and aging characteristics. Poor resistance to petroleum-based fluids.
FPM	Viton*	Hexafluoropropylene vinylidene fluoride	Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.
ECO	Hydrin®	Ethylene oxide and Chloromethyl oxirane	Excellent oil and ozone resistance. Fair flame resistance and low permeability to gases. Good low temperature properties.
	Cross-linked Polyethylene	Polyethylene and cross-linking agent	Excellent chemical resistance with good heat and electrical properties.

\*Du Pont Trademark

From "RMA Hose Handbook" published by The Rubber Manufacturers Association, Inc.

## General Chemical Resistance of Hose Compounds

Common Name	ASTM Designation D-1418-64	Composition	Generally Resistant To	Generally Attacked By
Buna-N	NBR	Nitrile-Butadiene	Many Hydrocarbons, Fats, Oils, Greases, Hydraulic Fluids, Chemicals	Ozone, Ketones, Esters, Aldehydes, Chlorinated and Nitro Hydrocarbons
Cross-Linked Polyethylene	—	Cross-Linked Polyethylene	Aliphatic, Aromatic, and Halogenated Hydrocarbons, Acids, and Petroleum based products.	Fuming Nitric Acid, Aqua Regia, and Chlorinated Solvents over 150° F.
EPT or EPDM	EPDM	Ethylene-propylene-diene-terpolymer	Animal and Vegetable Oils, Ozone, Strong and Oxidizing Chemicals	Mineral Oils, Solvents, Aromatic Hydrocarbons
Fluorocarbon Resin (Teflon)		Polytetrafluoroethylene	Aliphatic, Aromatic, and Halogenated Hydrocarbons, Petroleum based products, Animal and Vegetable Oils.	Sodium and Fuming Nitric Acid.
GRS or SBR	SBR	Styrene-Butadiene	Most Moderate Chemicals, Organic Acids, Alcohols, Ketones, Aldehydes.	Ozone, Strong Acids, Fats, Oils, Greases, most Hydrocarbons.
Hypalon	CSM	Chloro-sulfonated Polyethylene	Moderate Chemicals, Acids, Ozone, Oils, Fats, Greases, Many Solvents.	Concentrated Oxidizing Acids, Esters, Ketones, Chlorinated, Aromatic, and Nitric Hydrocarbons.
Natural Rubber	NR	Isoprene Rubber	Most Moderate Chemicals, Wet or Dry, Organic Acids, Alcohols, Ketones, Aldehydes.	Ozone, Strong Acids, Fats, Oils, Greases, most Hydrocarbons.
Neoprene	CR	Chloroprene	Moderate Chemicals and Acids, Ozone, Oils, Fats, Greases, many Solvents.	Strong Oxidizing Acids, Esters, Ketones, Chlorinated, Aromatic, and Nitro Hydrocarbons.
Thiokol	T	Organic Polysulfide	Ozone, Oils, Solvents, Thinners, Ketones, Esters, Aromatic Hydrocarbons.	Mercaptans, Chlorinated and Nitro Hydrocarbons, Ethers, Amines, Heterocyclics
Urethane	EU	Polyether	Ozone, Hydrocarbons, Moderate Chemicals, Fats, Oils, Greases.	Concentrated Acids, Ketones, Esters, Chlorinated and Nitro Hydrocarbons

## Oil Resistance—Definition and Degrees

Oilproof, as defined by The Rubber Manufacturers Association (RMA), means "not affected by exposure to oil." Since all rubber compounds presently available are affected to a degree by exposure to oil, they must be classified as Oil Resistant, and not Oil Proof.

Since the definition of oil resistance is relative, the hose industry has created three

classifications: Maximum Oil Resistance, Medium Oil Resistance, and Non-Oil Resistant. To classify a material, two important properties are measured after exposure to oil as set forth in the following:

Test Fluid and Conditions: Immersion in A.S.T.M. #3 Oil @ 212° F. (100° C.) for 70 hrs., and in A.S.T.M. Reference Fuel B at room temperature for 70 hrs.

	Maximum Oil Resistance		Medium Oil Resistance		Non-Oil Resistant	
	A.S.T.M. #3 Oil	A.S.T.M. Ref. Fuel B	A.S.T.M. #3 Oil	A.S.T.M. Ref. Fuel B	A.S.T.M. #3 Oil	A.S.T.M. Ref. Fuel B
Tensile Retention	80% Min.	50% Min.	40% Min.	35% Min.	Less than 40%	Less than 35%
Volume Change (Swell)	25% Max.	35% Max.	100% Max.	80% Max.	More than 100%	More than 80%

Potomac TYPE H-24

GENERAL SERVICE



**Recommended Use:** For general service applications under moderate operating conditions. Also for air, water, and low pressure water base agricultural spray applications

**Features:** An economical hose. Highly-resistant to gouging, cutting and weathering.

**Tube:** EPDM.

**Reinforcement:** Two or four spirals of polyester cord.

**Cover:** Red EPDM.

**Lengths:** Reels or specified lengths.

**Couplings:** Short or Long Shank, Universal Quick Acting, Barbed Inserts, Interlocking Clamp type.

I.D. (in.)	O.D. (in.)	Working Pressure	Service	Approx. Wt./C Ft.
1/4	5/8	300	XHD	17.3
3/8	29/32	300	XHD	20.0
1/2	7/8	300	XHD	27.6
3/4	1 1/16	300	XHD	40.3

Potomac TYPE H-20

SELF-STORING AIR HOSE



<b>Rigid Male Pipe</b>	
<b>Rigid Female Pipe</b>	
<b>Male Pipe Swivel (swivels in use)</b>	

Standard is designed for average shop usage at 175 psi.

Standard Self-Storing Air Hose Standard Sizes (I.D.)			
Nominal Lengths	Working Lengths (feet) (with 7 pounds maximum pull)		
	1/4"	3/8"	
25'	23.5	22	
50'	47	44	
100'	94	88	

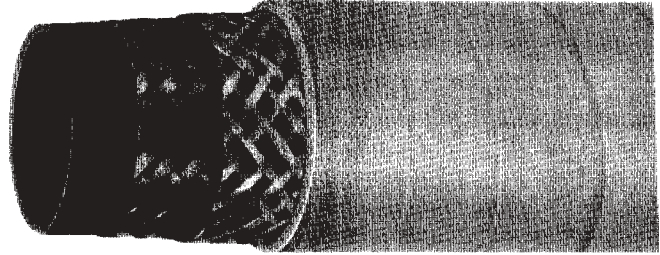


## Potomac TYPE H-28

### WIRE BRAID AIR HOSE

**SERVICE:** A premium wire hose ... for air service and water jetting use at mines, quarries and highway construction sites. A crush-proof and extra-heavy-duty hose designed to safely handle high working pressures under the most severe on-the-job conditions.

More *service per hose dollar!*



**TUBE:** Extra-smooth ...compounded of high quality Neoprene to resist the effects of hot air and oil. Will not flake ... will not plug tools ... prevents costly down-time.

**REINFORCEMENT:** Tightly braided high-tensile steel wire carcass provides superior strength, excellent flexibility and a safety factor of five times the working pressure. Also improves handling and promotes longer service life under the most abuse-ridden conditions.

**COVER:** Safety yellow . . . highly visible, compounded of Neoprene to resist weather and wear. Also, extra thick to withstand crushing, scuffing, cutting, gouging and heat aging.

I.D. (In.)	Braid	O.D. (In.)	Approx. Wt. Per 100 Ft.	Min. Bend Radius (in.)	Max. Recom. WP (PSI)
1/2	1	3 1/32	42	7	1250
3/4	1	1 7/32	58	9.5	1000
1	1	1 15/32	72	12	1000
1 1/2	1	2 1/16	120	20	600
2	2	2 21/32	190	25	600
3	2	3 21/32	275	36.5	500
4	2	4 21/32	368	48	400

**COUPLINGS:** High pressure universal or boss type  
W / interlocking bolted clamps or steel bands.

## Potomac TYPE H-500

### CHEMICAL HOSE

The ultimate in chemical hose. It's a lightweight, flexible chemical transfer hose that will handle 98% of all common industrial chemicals in pressure, gravity flow and suction service. Its maximum temperature limitation is 1600F; refer to Chemical Resistance Chart. When transferring a variety of chemicals, the hose can be intermittently steam cleaned to help prevent contamination. The ultra high molecular weight polyethylene tube is backed with a compatible rubber layer to lend support and flexibility to the hose.

#### Construction

**Tube:** UHMWPE or XLPE

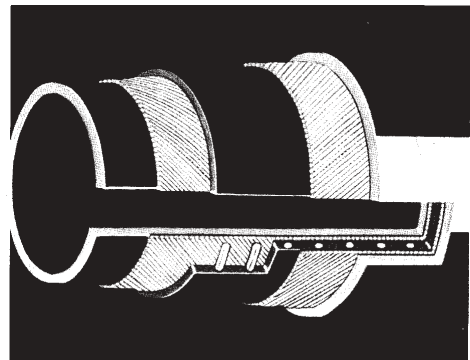
**Reinforcement:** Synthetic cord with wire helix.

**Cover:** EPDM, Green with yellow stripe.

**Note:** Available with straight ends, uncapped only

**Couplings:** Swaged or internally expanded, and shank type fittings.

**CAUTION-**Fitting alloy must be compatible with chemical being transferred  
Length: 100ft.



I.D. (In.)	O.D. (In.)	W.P.* (PSI)	Plies	MBR (In.)	Weight (Lbs./Ft.)
1 1/2	2 5/64	200	2	4	.96
2	2 37/64	200	2	6	1.25
3	3 21/32	200	2	9	2.09
4**	4 45/64	150	2	10	2.92

\*Working pressures reflect a permanent type coupling such as external swage. For banded type couplings, the working pressure should reflect 65% of the ratings listed.

\*\*Non stock. Minimum production run 1,200 feet.

## WATER DISCHARGE HOSE

### Potomac TYPE H-36

#### SINGLE JACKET MILL HOSE

##### 100% POLYESTER MILL-DISCHARGE

###### APPLICATION

**250 psi test.** hose designed for open-end discharge, and other light duty service. Ideal as a lightweight discharge hose for the construction industry. Not suitable for fire protection or continuous use.

###### CONSTRUCTION

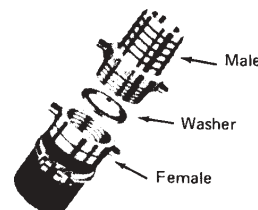
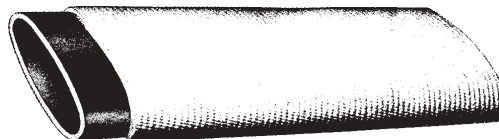
**Tube:** Seamless, extruded, ozone resistant, non-acid forming

**Cover:** Woven jacket 100% Polyester synthetic yarn Light weight and flexible.

Lengths 25 ft. or 50 ft.

###### SIZES ID

1-1/2"  
2"  
2-1/2"  
3"  
4"



### Potomac TYPE H-38

#### LIGHTWEIGHT WATER DISCHARGE HOSE

**Application:** Light-duty contractors' water hose, recommended for open-end discharge only.

**Construction:** Good quality rubber tube. Reinforced with cotton fabric plies. Black rubber cover.

**Fittings:** Shank type.

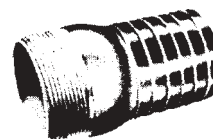
Lengths 25 ft. or 50 ft.

###### SIZES ID

1-1/2"  
2"  
2-1/2"  
3"  
4"  
6"



#### COMBINATION HOSE NIPPLES



### Potomac TYPE H-39 DJ

#### HEAVY DUTY WASHDOWN

##### 100% POLYESTER

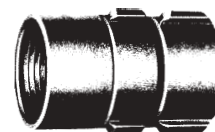
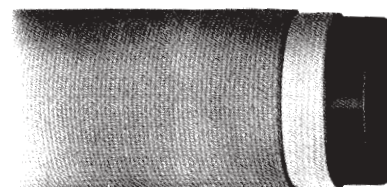
A heavy-duty washdown hose for construction and general industry.

An all-polyester-fiber hose for either exterior or interior service at industrial plants, institutions, hospitals, and office buildings. Also used for street washdown. Extremely lightweight, flexible, and easy to handle. Does not kink and can be recoiled with minimum effort.

###### CONSTRUCTION:

**Tube:** slow-aging, will not become brittle nor crack in storage; non-acid forming.

**Cover:** Double Jacket polyester yarn that resists acids, alkalis and many chemicals which tend to deteriorate ordinary hose.



###### SIZES

1-1/2" - 2" - 2-1/2"

25 OR 50FT LENGTHS

###### LIGHTWEIGHT ALUMINUM COUPLINGS

NST OR NPSH

## Potomac TYPE H-37

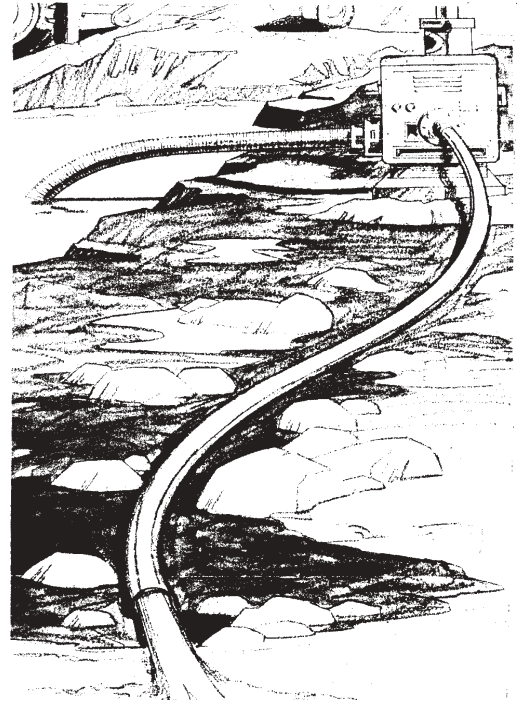
### PVC DISCHARGE HOSE

**PVC Discharge Hose** can be used anywhere open end discharge of water, sewage, mine acid water, etc. is desired.  
**Extremely Flexible**

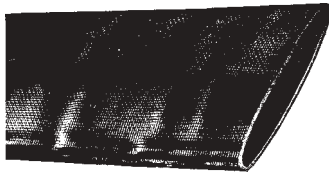
- Age Resistant
- Weather Resistant

#### APPLICATIONS

- Water discharge at Construction Sites
- Water Discharge in Industrial Plants
- Irrigation
- Long Lengths
- Will Not Rot or Mildew
- Resistant to Oil or Grease Spills
- Rolls Flat For Easy Storage



#### SPECIFICATIONS



##### BLUE

##### RED

SIZE	WEIGHT	W.P.	SIZE	WEIGHT	W.P.
(PER 100 FT)			(PER 100 FT)		
1-1/2"	16	80#	1-1/2"	23	150#
2"	23	80#	2"	32	150#
2-1/2"	29	80#	2-1/2"	41	150#
3"	39	70#	3"	52	125#
4"	52	70#	4"	76	125#
6"	86	50#	6"	121	100#
8"	130	45#			

## Potomac TYPE H-58

### DRAIN HOSE



**LIGHT DUTY DRAIN HOSE** - Hot or Cold Water Use - Designed for:

Dishwasher Drain Hose, Washing Machine Drain Hose, Disposal Connections,  
 Car Heaters

**TUBE and COVER** - Black smooth EPDM synthetic rubber - Excellent aging qualities, Heat and Chemical Resistant. Completely resistant to ozone. Non-oil resistant.

**REINFORCEMENT** - 2 Ply Spiral polyester for long service life. LENGTHS - 50 foot

SIZES :

5/8" I.D. to fit 1/2" copper tubing

7/8" I.D. to fit 3/4" copper tubing



## HEAT PUMP HOSES



FOR USE WITH WATER SOURCE HEAT PUMPS, HOSE HAS A CHEMICAL RESISTANT TUBE AND STAINLESS STEEL OUTER BRAID

AVAILABLE WITH MALE PIPE THREAD, FEMALE JIC W/ ADAPTER,  
AND GARDEN HOSE THREAD.  
CUSTOM MADE TO LENGTH

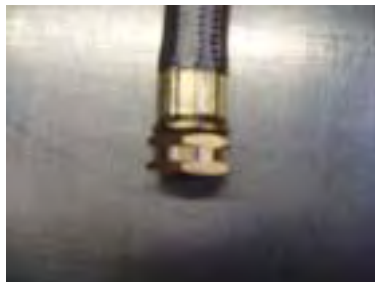
SIZES 1/2", 3/4", & 1"

### WORKING PRESSURE

1/2"	375#
3/4"	300#
1"	290#

### TEMP RANGE

5° - 230°



GHT



MPT



FJIC



FJIC W/MALE ADAPTER

## Potomac TYPE H-94

### MEDIUM DUTY WATER HOSE

**Recommended Use:** For light industrial water hose applications.

**Features:** Extremely flexible and light.

**Tube:** EPDM.

**Reinforcement:** Spiral polyester cord.

**Cover:** Black EPDM Compounded to resist weathering and abrasion

**Lengths:** 25 ft. and 50 ft lengths standard. Custom lengths made to order.

SIZE I.D. (IN)	SPIRALS	O.D. (IN)	W.P. (PSI)
5/8"	2	1"	150
3/4"	2	1-1/8"	150



HEAVY DUTY  
ROD BRASS  
COUPLINGS

## Potomac TYPE H-96

### HEAVY DUTY HOSE

**RECOMMENDED USE:** FOR HEAVY DUTY WATER DISCHARGE SERVICE, HOT (180°F) OR COLD WATER.

**FEATURES:** AN ECONOMICAL HOSE, HIGHLY RESISTANT TO GOUGING, CUTTING, AND WEATHERING.

**TUBE:** EPDM

**REINFORCEMENT:** FOUR SPIRALS OF POLYESTER CORD.

**COVER:** BLACK EPDM

**LENGTHS:** 25', 50', 100', SPECIFIC LENGTHS, REELS.



Size I.D. (In.)	Spirals	Approx. O.D. (In.)	W.P. (psi)
1/2	4	27/32	300
5/8	4	31/32	300
3/4	4	1 1/32	300
1	4	1 7/16	150
1 1/4	4	1 3/4	150
1 1/2	4	2 1/32	150
2	4	2 1/2	150

## Potomac TYPE H-TT

### TREE TYING HOSE

BUILT TO WITHSTAND THE ABUSE OF CORROSIVES, AND ABRASION. THE KINK-RESISTANT VINYL TUBE AND COVER RESIST CRACKING AND WEATHER CHECKING. THE MULTI-SPIRAL REINFORCEMENT KEEPS THE HOSE FLEXIBLE EVEN IN EXTREME TEMPERATURES.

**SIZES:** 1/2" & 5/8"

**WORKING PRESSURE:** 50#

**OIL RESISTANCE:** LIMITED

**CONSTRUCTION:**

**TUBE:** VINYL

**REINFORCEMENT:** 2 SPIRAL POLYESTER YARN

**COVER:** VINYL



## Potomac TYPE H-10C

### MUNICIPAL WATER HOSE

Black Municipal and Contractors Water hoses provide general water pressure service for municipalities and the general construction markets. Hose has an *PVC* tube and cover that resist weather, abrasion and cracking. Coupled with heavy duty rod brass, short shank fittings.




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Sizes:	1/2" and 3/4"
Branding:	None
Cover Color:	Black
Oil Resistance:	Limited
Construction:	
Tube:	PVC
Reinforcement:	2 spiral polyester yarn
Cover:	PVC

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### POTABLE WATER HOSE

**Aqua-duct Hose for Drinking Water non-toxic...no "Garden Hose" taste.** Specially compounded under F.D.A. material specifications for transferring drinking water safely without foreign taste.

The perfect hose for:

**BOATS - CAMPERS - CAMP SITES  
CAMPS - CABINS - MOBILEHOMES  
TEMPORARY HOUSEHOLD HOOKUPS**

- Distinctive pure white color available in 5/8" inside diameter Nylon cord reinforced for long life, durability and high burst strength
- Formulated for flexibility and easy handling in all weather
- Solid brass, full flow couplings



### GARDEN AND SPRINKLER HOSE



#### Triple-Tube Sprinkler...

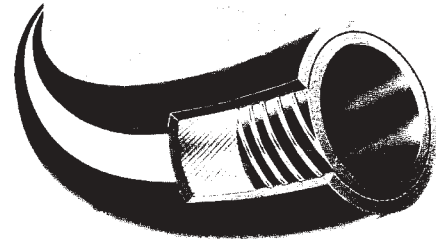
- **FLEXIBLE** vinyl plastic for sprinkling or soaking
- **DISTINCTIVE** stripe identifies top surface
- **REVERSIBLE** for soaking
- Always lays flat
- Sprays gently over wide areas
- Super flexible for curving terrain

## Potomac TYPE H-74W

### MARINE EXHAUST HOSE

#### HARDWALL

I. D. 1/2" 5/8" 3/4" 7/8" 1" 1-1/8" 1-1/4" 1-5/16" 1-3/8" 1-1/2" 1-9/16" 1-5/8"	Constructed of synthetic rubber and nylon fabric, its tough wall is further reinforced by an embedded tempered steel wire. Sureflex is highly resistant to coolant deterioration, and exceeds S.A.E. and U.S. Government hydrostatic burst specifications. Its exceptionally rugged construction permits positive clamping.		2-3/4" 2-7/8" 3" 3-1/8" 3-1/4" 3-3/8" 3-1/2" 4" 4-1/8" 4-3/8" 4-1/2" 5" 5-1/2" 6"
	1-3/4" 1-7/8" 1-15/16" 2" 2-1/16" 2-1/8"	2-1/4" 2-5/16" 2-3/8" 2-7/16" 2-1/2" 2-5/8"	



## Potomac TYPE H-74

### MARINE EXHAUST HOSE

#### SOFTWALL

**Recommended Use:** For wet marine coupling and coolant, and heavy-duty radiator service.

**Features:** Resists hot water, antifreeze solutions, oily water and exhaust gases when mixed with water. Designed to fit over standard pipe.

**Tube:** Specially blended, Extra thick to insure longer life.

**Reinforcement:** Multiple plies of woven fabric.

**Cover:** Black Neoprene. With high degree of resistance to scuffing and gouging. Excellent ozone and sunlight resistance.

MARINE and INDUSTRIAL APPLICATIONS  
2 Ply Fabric Construction  
200# Working Pressure

1-1/4" I.D.	2-3/8" I.D.
1-5/16"	2-1/2"
1-1/2"	2-5/8"
1-5/8"	2-3/4"
1-7/8"	2-7/8"
2"	3"
2-1/4"	3-1/2"

