Suction and Discharge Hose

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Important Water Suction & Discharge Hose Safety Information!

WARNING: Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

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

WARNING: Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

WARNING: Consider both working pressure and pressure surges when determining "maximum" pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

WARNING: Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

WARNING: Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.

WATER SUCTION & DISCHARGE HOSE BENEFITS

4:1 Safety Factor (Burst: Working Pressure) or 3:1 Safety Factor on Contractors Water, Green Garden Hose, Otter, Leader and Contrac-Force.

- Safer operation.
- Longer hose life

Job Related Construction Service

- Eaton makes a wide variety of hose styles for water suction and discharge applications. Each product is manufactured utilizing the components and construction which makes it best suited for the job to be performed.

Pressure and Vacuum Rated

- Eaton manufactures braided and spiral hoses using the latest technology in wire and synthetic yarns. As a result, Eaton hoses are pressure and vacuum resistant, as well as flexible and easy to handle.

Quality Assured

- Value through design and quality control assures you of maximum performance from Eaton products.

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

Otter Water Suction & Discharge

Tube: EPDM

Reinforcement: Fiber, 4 Spiral, 2 or 4 Ply and Helical Wire

Cover: EPDM

Color: Black

Temperature Range: -10°F To +180°F

Type Of Branding: Embossed

Suction: Full Vacuum

Working Pressure: 'U' Series with 1-1/4": 75-125 psi 3:1 Safety Factor

Type Of Coupling: Cam and Groove, Water Suction, Combination Nipple, or Swaged/Crimped. Clamps—Single Bolt, Double Bolt or Band.

Features:

- EPDM cover
- EPDM tube
- Longer lengths

Advantages:

- Abrasion and weather resistant
- Resistant to diluted agricultural fertilizers
- Economical; eliminates waste

Markets:

- Agriculture
- Construction industry
- Equipment rental
- Mining
- Ship building
- Oil Exploration/drilling
- Tank truck

Applications:

- Transfer of water based liquid fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries
- Convey water
- Transfer and haul salt water (brine)

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	REINF.	NOMINAL O.D. (IN.)	(MM)	APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	MINIMUM BEND RADIUS (IN.)	(MM)	MTO* MINIMUM ORDER QTY.	STANDARD LENGTH (FT)
H036420-150	1-1/4	31.8	2 Ply	1-51/64	45.6	85	125	6	152.4	—	150
H036424											50
H036424-100	1-1/2	38.1	4 Sp	2	50.8	87	125	5	127.0	—	100
H036424-150										1,050	150
H036432											50
H036432-100	2	50.8	4 Sp	2-1/2	63.5	112	125	6	152.4	—	100
H036432-150										900	150
H036440-150	2-1/2	63.5	2 Ply	3-1/16	77.8	139	100	12	304.8	—	150
H036448-100	3	76.2	4 Sp	3-9/16	90.5	168	100	12	304.8	—	100
H036464											50
H036464-100	4	101.6	4 Sp	4-9/16	115.9	219	75	14	355.6	—	100
H036464-150										450	150
H036480-150	5	127.0	2 Ply	5-3/4	146.1	384	100	—		300	150
H036496-20	6	152.4	2 Ply	6-47/64	171.1	456	80	31	787.4	—	20
H036496											50
H036496-100											100
H036496-150										300	150
H03648A-20	8	203.2	4 Ply	8-53/64	224.2	662	80	32	812.8	—	20
H03648A											50

*MTO–Made To Order

Suction and Discharge Hose

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

Flexbilt K-10 Suction & Discharge

Tube: Polyvinyl Chloride (PVC)
Reinforcement: Rigid Vinyl Helix
Color: Green
Temperature Range: -10°F To +150°F
Suction: Full Vacuum at 120°F; 27" of mercury at 150°

Working Pressure: 50-100 psi at 72°F; 35-65 psi at 150°F
Type Of Coupling: Cam and Groove, Water Suction, or Combination Nipple. Clamps—Double Bolt or Band.

Features:
- PVC construction
- 100' lengths
- Rigid vinyl helix

Advantages:
- Lightweight
- Abrasion resistant
- Economical; less waste
- Offers suction and discharge

Markets:
- Construction
- Equipment rental
- Mining, liquid waste

Applications:
- Suction
- Water discharge
- Pumping

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	NOMINAL O.D. (IN.)	(MM)	APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI) 72°F	150°F	MIN. BEND RADIUS (IN.)	STANDARD LENGTH (FT)
H010024-100	1-1/2	38.1	1-13/16	46.0	40	100	65	3.5	100
H010032-100	2	50.8	2-3/8	60.3	57	85	45	5.0	100
H010040-100	2-1/2	63.5	2-7/8	73.0	69	80	45	5.5	100
H010048-100	3	76.2	3-7/16	87.3	94	75	40	9.5	100

Stated working pressures are listed above at 72°F and 150°F. Working pressure decreases as temperature increases.

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

TYPE CE Corrugated Suction Hose

Tube: PVC
Reinforcement: Rigid PVC Helix
Color: Clear with White Helix
Temperature Range: -5°F to +150°F
Type Of Branding: None

Working Pressure: 60-70 psi
Type Of Coupling: Cam & Groove, Water Suction or Combination Nipple, Clamps.

Features:
- Full vacuum
- Rigid PVC helix for maximum flex & crush resistance
- Small bend radius for tight turns
- Smooth bore construction

Advantages:
- Lightweight
- Extremely flexible
- Food grade
- Tough, durable, abrasion resistance

Markets:
- Mining
- Liquid waste
- Construction
- Food transfer

Applications:
- Suction
- Water discharge
- Pumping

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	NOMINAL O.D. (IN.)	(MM)	WORKING PRESSURE @ 68°F	VACUUM PRESSURE	APPROX. LBS. WEIGHT PER 100 FT.	STANDARD LENGTH (FT.)	PACKAGE
CE-24	1-1/2	38.1	1.960	49.8	70	28	45	100	15pc /Box
CE-32	2	50.8	2.570	65.3	60	28	80	100	5pc /Box

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. Contact Eaton for further information.

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

Royalflex 1196

Tube/Cover: Thermoplastic Vinyl Nitrile MSHA Approved

Reinforcement: 100% Polyester and Helical Wire

Color: Blue

Temperature Range: -20°F To +180°F

Type Of Branding: Ink Print

Suction: Full Vacuum

Working Pressure: 200-300 psi (Depending on coupling)

Type Of Coupling: Contact Eaton for coupling information.

Features:

- Thermoplastic vinyl nitrile homogeneous tube and cover
- Ribbed cover
- More turns of helical wire per inch
- Higher working pressures
- Lightweight
- Flexible
- Longer lengths
- MSHA approved

Advantages:

- Abrasion, some chemical and heat resistance
- Sure grip
- More crush and kink resistant
- 300 psi applications
- Easy to handle
- Economical; eliminates couplings

Markets:

- Agriculture
- Construction
- Foundries
- Mining
- Oil exploration/drilling
- Paper industry
- Petroleum/Petrochemical
- Tank truck
- Waste hauling
- Waste treatment plant

Applications:

- Transfer of water, liquid diluted fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	NOMINAL O.D. (IN.)	(MM)	APPROX. WEIGHT (LBS./FT.)	MAXIMUM WORKING PRESS. (PSI)	MIN. BEND RADIUS (IN.)	(MM)	STANDARD REELS (FT)
H119624	1-1/2	38.1	2	50.8	.81	300	6	152	50
H119624-60									60
H119624-100									100
H119624-120									120
H119632	2	50.8	2-1/2	63.5	1.09	300	8	203	50
H119632-60									60
H119632-100									100
H119632-120									120
H119640	2-1/2	63.5	3	76.2	1.32	300	10	254	50
H119640-60									60
H119640-100									100
H119640-120									120
H119648	3	76.2	3-1/2	88.9	1.94	250	12	305	50
H119648-60									60
H119648-100									100
H119648-120									120
H119664	4	102.0	4-1/2	115.9	2.72	200	16	406	50
H119664-60									60
H119664-100									100
H119664-120									120

Packaging is one 50, 60,100, or 120 foot length per box.

Longer lengths available on special order.

Suction and Discharge Hose

ARROW-FLO Suction

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

TYPE 9F
Clear PVC with White Helix, NSF-51

TYPE 9H
Clear PVC with Red Helix, NSF-51

TYPE 9G
Full color PVC with White Helix

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Features:
- Full vacuum or discharge
- Rigid PVC helix for maximum flex & crush resistance
- Smooth core & cover construction

Advantages:
- Tough, durable, abrasion resistance
- Lightweight

Markets:
- Construction
- Agriculture
- Pool & spa
- Bulk material handling

Applications:
- Water suction & discharge
- Slurry vacuum & discharge
- Fertilizer transfer
- Vacuum transfer of light powders & mild chemicals
- Industrial & agricultural
- Pneumatic conveying hose

PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	NOMINAL O.D. (IN.)	(MM)	WORKING PRESSURE @ 68°F	BURST PRESSURE RATING	VACUUM PRESSURE	MIN. BEND RADIUS	APPROX. LBS. WEIGHT PER 100 FT.	STANDARD LENGTH (FT.)	PKG.
9F/H/G-0814	1/2	12.7	.840	21.3	100	650	28	1.5	13	100	Coil
9F/H/G-1215	3/4	19.1	.950	24.1	100	550	28	2	19	100	Coil
9F/H/G-1620	1	25.4	1-1/4	31.8	90	400	28	4	27	100	Coil
9F/H/G-2024	1-1/4	31.8	1.520	38.6	80	400	28	4.5	36	100	Coil
9F/H/G-2428	1-1/2	38.1	1-3/4	44.5	70	300	28	5	38	100	Coil
9F/H/G-2630	1-5/8	41.3	1.900	48.3	70	250	28	6	46	100	Coil
9F/H/G-3238	2	50.8	2.375	60.3	65	250	28	7.5	68	100	Coil
9F/H/G-4855	3	76.2	3.400	86.4	65	170	28	13	119	100	Coil

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. Contact Eaton for further information.

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

Leader Water Discharge

Tube: EPDM
Reinforcement: Fiber, 2 or 4 Spiral, 2 Ply
Cover: EPDM
Color: Black
Temperature Range: -10°F To +150°F

Type Of Branding: Embossed
Working Pressure: 80-150 psi
3:1 Safety Factor
Type Of Coupling: Cam and Groove, Combination Nipple. Clamps—Double Bolt or Band.

Features:
- EPDM cover
- EPDM tube
- Continuous permanent brand
- Available in longer lengths

Advantages:
- Abrasion and weather resistant
- Resistant to diluted chemicals
- Easy identification
- Economical; less waste

Markets:
- Construction
- Equipment rental
- Mining
- Ship building
- Tank truck
- Agricultural

Applications:
- Water discharge
- Heavy duty with 150 psi
- Mild chemicals only

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	REINF.	NOMINAL O.D. (IN.)	(MM)	APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	STANDARD LENGTH (FT)	
Light Duty									
H030724-100	1-1/2	38.1	2 Sp	1-13/16	46.0	57	100	100	
H030732-100	2	50.8	2 Sp	2-5/16	58.7	73	100	100	
H030740-100	2-1/2	63.5	2 Ply	2-7/8	73.0	90	100	100	300*
H030748-100	3	76.2	2 Sp	3-13/32	84.1	110	100	100	
H030764-100	4	101.6	2 Sp	4-13/32	109.5	145	100	100	
H030780-150	5	127.0	2 Ply	5-3/8	136.5	179	100	150	450*
H030796-150	6	152.4	2 Ply	6-3/8	161.9	214	80	150	450*
H03078A-150	8	203.2	2 Ply	8-25/64	213.1	283	80	150	
Heavy Duty									
H037924-100	1-1/2	38.1	4 Sp	21/16	52.4	64	150	100	
H037932-100	2	50.8	4 Sp	2-9/16	65.1	85	150	100	
H037940-150	2-1/2	63.5	2 Ply	2-29/32	73.8	104	150	150	
H037948-100	3	76.2	4 Sp	3-9/16	90.5	123	150	100	
H037964-100	4	101.6	4 Sp	4-9/16	115.9	161	150	100	
H037996-150	6	192.4	2 Ply	6-29/64	163.9	255	150	150	450*
H03798A-100	8	203.2	2 Ply	8-13/32	213.5	313	100	100	300*

**MTO–Made To Order*

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

Flexbilt K-50 Water Discharge

Tube & Cover: Polyvinyl Chloride (PVC)
Reinforcement: Woven Synthetic Yarn
Color: Blue
Temperature Range: -10°F To +150°F
Type Of Branding: Embossed

Working Pressure: 35-75 psi
Type Of Coupling: Cam and Groove, Water Suction, or Combination Nipple.
Clamps—Double Bolt, Band or Wire.

Features:
- PVC construction
- Soft wall
- Smooth cover

Advantages:
- Lightweight
- Abrasion resistant
- Folds flat for easy storage
- Easy to move
- Easy to clean

Markets:
- Construction
- Equipment rental
- Mining

Applications:
- Open-end water discharge

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	(MM)	APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	STANDARD LENGTH (FT)
H050024-300	1-1/2	38.1	17	75	300
H050032-300	2	50.8	22	60	300
H050040-300	2-1/2	63.5	29	60	300
H050048-300	3	76.2	40	50	300
H050064-300	4	101.6	53	45	300
H050096-300	6	152.4	82	35	300

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. See chart on page A-12 showing the relationship between working pressure and temperature for reinforced PVC hose.

Refer to warnings and safety information on pages A-1 thru A-2 and page H-2.

TYPE 12 Industrial Grade Blue DURA-TUFF

Tube: PVC

Reinforcement: None

Color: Blue

Temperature Range: +25°F to +150°F

Type Of Branding: Ink Jet

Working Pressure: 10 psi

Features:

- Solid blue color
- Durable, abrasion resistant
- Measurement identification markers
- 0.032 wall thickness
- Soft wall
- Smooth core and cover

Advantages:

- Lightweight
- RoHS compliant
- Abrasion resistant
- Folds flat for easy storage

Markets:

- Pool and spa

Applications:

- Pool backwash hose
- Light water discharge

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PRODUCT NUMBER	NOMINAL I.D. (IN.)	NOMINAL I.D. (MM)	NOMINAL O.D. (IN.)	NOMINAL O.D. (MM)	WORKING PRESSURE @ 68°F	APPROX. LBS. WEIGHT PER 100 FT.	STANDARD LENGTH (FT.)	PACKAGE
12-2425-36	1.63	41.4	1.692	43.0	10	9.0	25′	15pc/Box
12-2425-56							50′	5pc/Box
12-2425-16							100′	1pc/Box
12-2425-26							200′	Spool

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. Contact Eaton for further information.

Notes

Notes