



# Extendo-Duct® Series Polypropylene/Wire Reinforced Air Ducting Hose

**High Contractibility**  
**High Extendibility**  
**Self-Supporting**  
**Light Weight**



EDW Series Hose

CMCW Series Cuff



EDB Series Hose

CMCB Series Cuff



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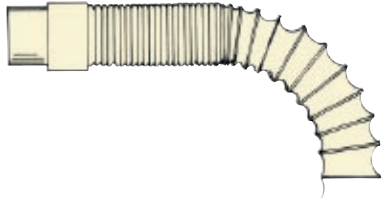
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# EXTENDO-DUCT® SERIES (POLYPROPYLENE/WIRE REINFORCED) AIR DUCTING HOSE

*The easy-to-use flexible duct that's so unique you have to see it to believe it!*



## Features and benefits:

**Highly flexible** — Eliminates the need for elbow fittings.

**Non-kinking** — Permits full airflow, even with 90° bends.

**Self-supporting** — Unique wire-reinforced polypropylene construction allows hose to maintain its shape and support itself once it is positioned. Note: Applications requiring larger IDs and longer lengths may require additional fixed supports to ensure intended performance.

**Highly extendible and contractible** — Hose extends easily and can be contracted to approximately one-third of its full extended working length for storage, shipping, or where the full length is not required . . . requires less storage space, reduces transportation costs (a 20' length can be shipped via UPS). Note: The true ID dimension of the hose can only be measured while the hose is fully extended. The true ID becomes smaller while the hose is in the contracted state.

**Simple interlock connection** — Joining two pieces of Extendo-Duct® is easy! Just twist the end of one hose into the end of another. No fittings, menders or couplings needed!



**Easy end connections** — custom molded cuffs available to make end connections easy.

*Extendo-Duct® adapts easily to applications requiring abnormal bends or configurations where space is limited.*

**Light weight** — a twenty-foot length of 12" diameter Extendo-Duct® weighs approximately 18 lbs. Makes difficult installations easier, reduces installation costs.

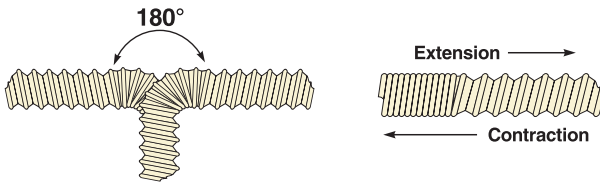
**Chemically-resistant, with no off-gassing** — Inert polypropylene material produces no off-gassing and is resistant to a wide variety of chemical fumes, making Extendo-Duct® ideal for clean room and chemical fume exhaust applications . . . see Chemical Fume Resistance Guide, page 4.

**Wide range of working temperatures** — Extendo-Duct® is suitable for use in temperatures ranging from -4°F (-20°C) to 175°F (80°C).

**Wide variety of applications** — Because of the unique qualities of Extendo-Duct®, it is the ideal choice for a wide variety of applications, including:

- Ducting for air conditioning, spot cooling and heating systems.
- Room air exhaust conveying and ventilation.
- Dust collection.
- Fume removal.
- OEM equipment applications (Extendo-Duct® can be compounded on special order to meet UL 94 HB and other tests).

## Laboratory tested performance!

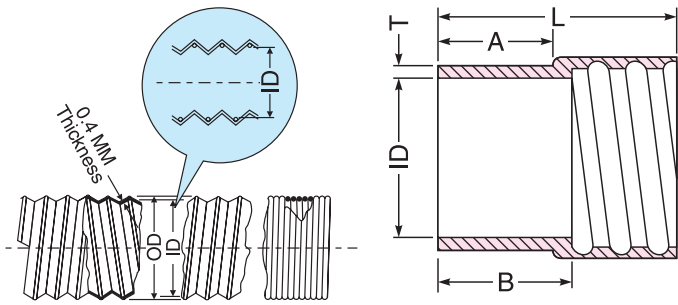


*To ensure long service life for our Extendo-Duct® hose, we tested several samples for resistance to repeated flexing, contraction and extension, as well as tensile strength. The results of those tests, which resulted in no visible change in the structure of the samples, is shown at right.*

Sample Hose Size	Flex Strength <small>(180° flex @ 77°F, 20 cycles/min.)</small>	Contraction-Extension Strength <small>(@ 77°F, 26 cycles/min.)</small>	Hose Tensile Strength <small>(@ 77°F)</small>
2"	50,000 times	100,000 times	88 lbs.
2 1/2"	50,000 times	100,000 times	110 lbs.
3"	50,000 times	100,000 times	132 lbs.

*Note: Actual results may vary with each individual application, depending on such variable factors as temperature, the chemical fumes being conveyed, and other variables in the operating environment.*

# EXTENDO-DUCT® SERIES (POLYPROPYLENE/WIRE REINFORCED) AIR DUCTING HOSE



CMCB  
Series Cuff



CMCW  
Series Cuff

Extendo-Duct® Hose (Standard length is 20 feet)											Custom Molded Cuffs †						
Standard Stock Colors		ID (In./mm)	OD (In./mm)	Wire Dia. (mm)	Working Pressure (PSI)		Vacuum Rating (In. HG)		Minimum Bending Radius (Inches @ 68°F.)	Approx. Weight Hose Only (lbs./ft.)	Approx. Contracted Shipping Length Hose Only	Standard Stock Colors		L Total Length (In.)	A Cuff Length Outside (In.)	B Cuff Length Inside (In.)	T Thickness (mm)
					68°F.	104°F.	68°F.	104°F.				Brown	White				
EDB-150	EDW-150	1 1/2"/37.5	1.63/41.5	1.0	20	7	22	14	1.2	0.10	85"	CMCB-150	CMCW-150	2.76	1.38	1.57	3
EDB-200	EDW-200	2"/53.5	2.26/57.5	1.0	13	6	21	12	1.6	0.12	82"	CMCB-200	CMCW-200	2.76	1.38	1.57	3
EDB-250	EDW-250	2 1/2"/67.0	2.80/71.0	1.0	10	5	19	10	2.0	0.16	72"	CMCB-250	CMCW-250	2.76	1.38	1.57	3
EDB-300	EDW-300	3"/76.5	3.17/80.5	1.0	10	5	18	10	2.3	0.18	72"	CMCB-300	CMCW-300	3.15	1.57	1.77	3
EDB-400	EDW-400	4"/102.0	4.17/106.0	1.2	8	4	13	7	3.0	0.23	70"	CMCB-400	CMCW-400	3.54	1.77	1.97	3
EDB-500	EDW-500	5"/127.5	5.18/131.5	1.2	7	3	10	6	4.3	0.27	70"	CMCB-500	CMCW-500	3.74	1.77	1.93	3.5
EDB-600	EDW-600	6"/155.0	6.26/159.0	1.2	6	3	7	5	5.1	0.33	70"	CMCB-600	CMCW-600	3.94	1.77	2.17	3
EDB-800	EDW-800	8"/202.0	8.19/208.0	1.8	4	2	5	3	7.0	0.68	70"	CMCB-800	CMCW-800	3.94	1.89	2.05	5
EDB-1000	EDW-1000	10"/253.0	10.22/259.5	1.8	3	1	4	2	9.0	0.83	70"	CMCB-1000	CMCW-1000	5.04	2.52	2.52	5
EDB-1200	EDW-1200	12"/302.0	12.13/308.0	1.8	2	1	3	1	11.0	0.91	70"	CMCB-1200	CMCW-1200	5.04	2.52	2.52	5

14" size also available — check with factory for details.

Note: When cutting this hose, care should be taken to fully extend the length to prevent shortages.

† Molded cuffs are an additional purchase option. Material: EPT Rubber.

## Extendo-Duct® selection and performance

The friction loss chart below provides the means by which friction losses resulting from airflow through any length of a given diameter of Extendo-Duct® hose can be calculated. The chart can also be used to aid in selecting the proper diameter Extendo-Duct® for use in

an application, or for calculating the volume of air which will be delivered at the end of the hose. *It should be noted that this chart is the result of laboratory tests performed on fully-extended lengths of Extendo-Duct®.* The examples shown at the right illustrate several uses of this chart.

### Example 1 — Calculating friction loss

The application requires 250 CFM and a 20 foot run of Extendo-Duct®. What would be the friction loss through a 6" diameter hose?

Draw a horizontal line at the desired CFM. Draw a vertical line from the point at which this horizontal line intersects the diagonal line for the desired hose diameter. Read the friction loss per 100 feet. Multiply this value by the hose length divided by 100.

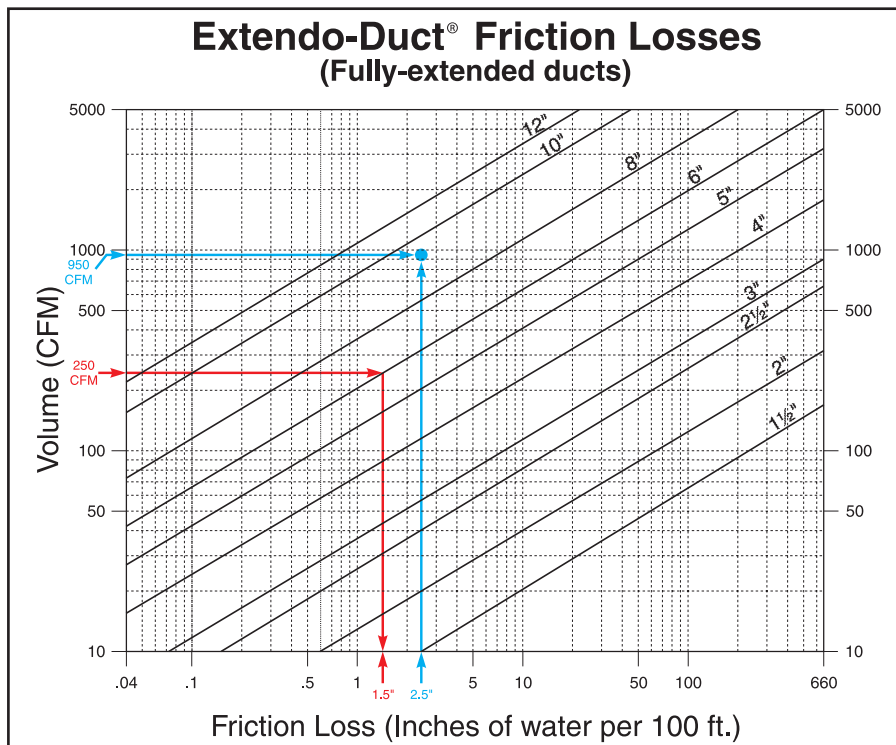
In our example (shown in red on the graph): the vertical line drawn at the point of intersection of the horizontal 250 CFM line and the 6" dia. hose line shows 1.5" friction loss for 100 ft. of hose. Since the length is 20 ft., multiply the friction loss for 100 ft. by .20. The result is 0.3" water column.

### Example 2 — Selecting the proper size Extendo-Duct®

A 60 ft. length of Extendo-Duct® is required to supply 950 CFM. The fan is capable of providing 1.5" SP. What size hose should be selected?

Calculate the 100 foot length equivalent pressure drop. Draw a vertical line at this point. Draw a horizontal line at the desired CFM. The proper hose selection is shown by the slanted line immediately to the left of the point at which the horizontal and vertical lines intersect.

In our example (shown in blue): 1.5" SP/(60/100) = 2.5". The vertical line drawn at 2.5" intersects the horizontal line drawn at 950 CFM between the 8" and 10" hose lines. The 10" hose should be selected.



# EXTENDO-DUCT® SERIES AIR DUCTING HOSE CHEMICAL RESISTANCE GUIDE

Applies to TIGERDUCT® Extendo-Duct® Series Only

**Rating Code** (All ratings apply to concentrated or saturated solutions unless otherwise specified)

**A — Good Service Life**

**B — Fair or Limited Service**

**X — Unsatisfactory Service**

**(\*) — Denotes Saturated Solution**

Not recommended

**WARNING:** This Chemical Resistance Guide is intended to be used as general guidance only. No warranty is expressed or implied, as applications and/or temperatures may vary widely, and the use of multi-purpose mixtures may introduce uncontrollable factors relating to chemical resistance. Applications operating above the stated temperature listed below may require further studies and testing by the end user to determine suitability. **NOT FOR LIQUID HANDLING USE.**

Chemical		Chemical		Chemical		Chemical	
Acetaldehyde	B	Chromic Acid	X	Hydrochloric Acid (37%)	A	Sodium Hydroxide (20%)	A
Acetic Acid (30%)	A	Chlorine	X	Hydrogen Fluoride (48%)	B	Sodium Hydroxide (50%)	A
Acetone	A	Chloroform	X	Iron Chloride (*)	A	Sodium Hypochlorite	A
Aluminum Chloride (*)	A	Chlorosulfonic Acid	X	Isopropyl Ether	X	Sodium Phosphate (*)	A
Aluminum Sulfate (*)	A	Citric Acid	A	Linseed Oil	B	Soybean Oil	X
Ammonia	A	Copper Chloride (*)	A	Magnesium Chloride (*)	A	Stearic Acid	B
Ammonium Chloride (*)	A	Copper Sulfate (*)	A	Magnesium Hydroxide (*)	A	Styrene	X
Ammonium Sulfate (*)	A	Cottonseed Oil	B	Methanol	A	Sulfuric Acid (50%)	A
Amyl Acetate	A	Cyclohexane	X	Methyl-ethyl-ketone	B	Sulfurous Acid	X
Amyl Alcohol	A	Di-n-Octyl Phthalate	B	Methylene Chloride	B	Tannic Acid (10%)	A
Aniline	A	Epichlorohydrin	B	Naphthalene	X	Tartaric Acid (*)	B
Barium Hydroxide (*)	A	Ethanol	A	N-Hexane	X	Tetrahydrofuran	X
Benzaldehyde	X	Ethyl Acetate	B	Nitric Acid (10%)	B	Thinner	X
Benzene	X	Ethyl Chloride	B	Nitrobenzene	A	Tin Chloride	B
Benzoyl Chloride	X	Ethyl Ether	X	Oleic Acid	B	Toluene	X
Boric Acid (*)	A	Ethylene Dichloride	B	Perchloroethylene	X	Tributyl Phosphate	X
Bromine	X	Ethylene Glycol	A	Phenol	B	Trichloroethylene	X
Butraldehyde	B	Formaldehyde (40%)	A	Phosphoric Acid (20%)	A	Triethylamine	A
Butyric Acid	A	Formic Acid	A	Picric Acid	B	Turpentine Oil	X
Calcium Chloride	A	Freon	X	Prussic Acid	A	Xylene	X
Calcium Hydroxide (*)	A	Furfural	X	Pyridine	B	Zinc Chloride (*)	A
Calcium Hypochlorite (*)	A	Glacial Acetic Acid	B	Silicone Oil	A		
Carbon Tetrachloride	X	Glycerine	A	Sodium Dichromate (20%)	A		

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Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

## Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions.

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