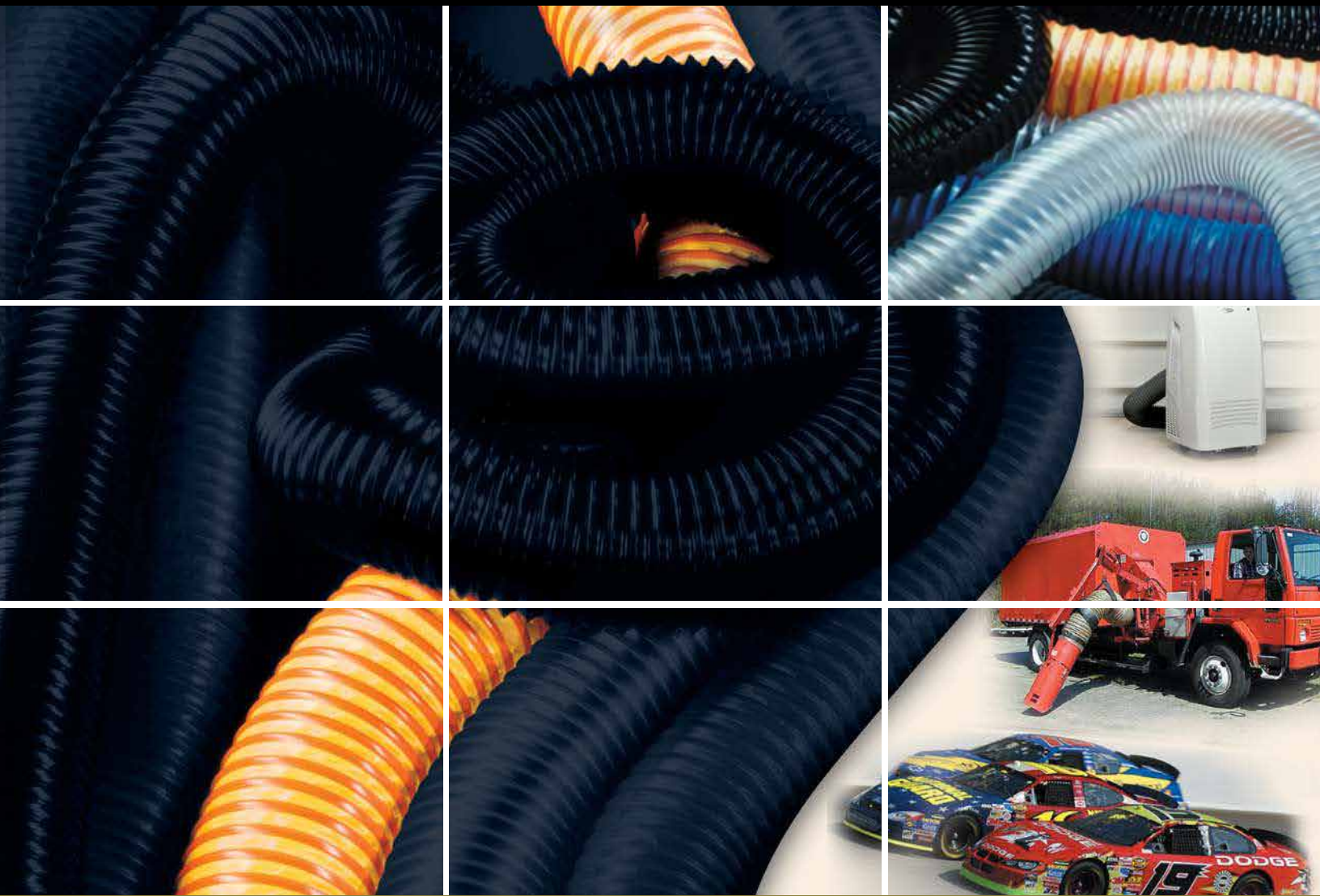


Thermoid®



INDUSTRIAL DUCTING



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HBD/Thermoid, Inc. is a subsidiary company of **HBD Industries, Inc.** HBD manufactures quality, application-engineered custom designed and standard industrial products serving many diverse industries and markets. Products manufactured by **HBD Industries, Inc.** include: AC/DC/BLDC electric motors, aerospace precision components, budding strips, cemented tungsten carbide parts, closed die forgings, coated rubber fabrics, conveyor belting, drives, ducting, gear reducers, hose (automotive, aviation, hand-built industrial, marine and petroleum), material handling products (metal separators/detectors and electromagnetic lifting equipment), power transmission belts, rubber bands, rubber roll coverings and ventilation equipment (fans and blowers). For complete details on all the products available from **HBD Industries, Inc.** companies, visit our web site at www.hbdindustries.com.

HBD/Thermoid®, Inc., one of the premier suppliers of flexible industrial hose and ducting, offers a wide range of products which meet the highest requirements of quality and integrity in the industrial marketplace. For almost a century the Thermoid® tradename has been synonymous with quality, dependability, efficiency and durability. Our ducting product line includes the well-known names of **FlexKing®**, **Neoflex®**, **Silflex®**, **Tuftex®** and **Cyclone®**.

The strength of the Thermoid ducting lines make them suitable for a variety of applications including industrial air movement, dust collection, fume control and light bulk material handling requirements.

Successful implementation of a quality management system through ISO-9001:2000 Certification supports the company's commitment to "Complete Customer Satisfaction". Our goals of providing the industry's finest product, excellent service, and diversity of products at competitive prices have long made HBD/Thermoid, Inc., the first name in industrial ducting worldwide. A quality Thermoid product for virtually any industrial application and Customer Service that is second to none is an unbeatable combination.

HBD/Thermoid®, Inc. has nationally recognized distributors, strategically located product warehouse facilities and manufacturing plants. HBD/Thermoid, Inc. can deliver the Industrial Rubber Products you need, where and when you need them.



FlexKing®

An outstanding example of all around, all quality ducting. This line offers a broad range of base fabrics, plies, coatings and sizes. All have a wire helix completely enclosed for a smooth, reliable, flexible operation. Applications cover fume control, cool or warm ventilation, hot air; light materials handling – even projects where rot, mold and mildew are a problem. FlexKing is available in a variety of neoprene coated fabrics, soft cuffs and neoprene dip coatings.



FlexKing Type SC – Performs especially well in low pressure, light duty areas. It is best suited for air handling and fume control. It features a single ply of neoprene coated cotton/polyester blend fabric with a helical wire reinforcement.

Type SC

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.18	.25	.44	.55	.82	.96	1.1	1.36	1.91
Inside Bend Radius (inches)	.5	.5	.5	.5	.5	.5	.75	.75	1
Length Required for 180° Bend (inches)	9	12	14	20	21	23	29	34	37
Minimum Burst Pressure (psig)	26	25	20	22	20	13	15	10	10
Internal Working Pressure (psig)	6.5	6	5	5.5	5	3.2	3.75	2.5	2.5
Crush Resistance (lbs./ft.)	290	240	525	410	710	630	586	500	400
Axial Tensile Strength (lbs.)	175	263	351	439	527	615	703	879	1000+
Retracted Length (in./ft.)	3.5	3.5	3.0	2.75	2.5	2.5	2.25	2.25	2.25
Neg. Pressure Req. to Collapse (hg.in.)	16	12	11	10	9	8	7	6	5
Operating Temperature Range	-40°F to +250°F								

* FlexKing Type SC is normally available in 25 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

FlexKing Type DC – Exceptionally reliable and strong. Type DC is designed for air handling, fume control, dust collection, and light material handling applications. It features a double ply of neoprene coated cotton/polyester blend fabric with a helical wire reinforcement.

FlexKing Type DC-FR – Same construction as FlexKing DC, except it offers excellent flame resistant qualities that meet UL 94V-O requirements.

Type DC

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.24	.41	.61	.64	.75	1.15	1.36	1.64	2.07
Inside Bend Radius (inches)	.625	.625	1	1	1.5	1.75	1.75	2.0	2.5
Length Required for 180° Bend (inches)	9.2	12.5	19.0	21.0	25.0	28	29	38	46
Minimum Burst Pressure (psig)	50	45	40	32	28	24	20	18	15
Internal Working Pressure (psig)	12.5	11	10	9	7	6	5	4.5	3.75
Crush Resistance (lbs./ft.)	490	280	550	360	800	700	600	500	400
Axial Tensile Strength (lbs.)	408	612	816	1000+	1000+	1000+	1000+	1000+	1000+
Retracted Length (in./ft.)	6.0	6.0	5.0	5.0	4.75	4.75	4.75	4.5	4.5
Neg. Pressure Req. to Collapse (hg.in.)	18	17	16	15	14	13	12	11	10
Operating Temperature Range	-40°F to +250°F								

* FlexKing Type DC is normally available in 25 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

FlexKing Type DE – The most rugged of the two-ply FlexKing. It has an unequalled reliability record for performance under the most severe conditions. It resists rupture and flex-fatigue and is mildew and rot proof. It features a double-ply of neoprene coated polyester fabric and a helical wire reinforcement. It's also available in single ply construction – FlexKing SE.



Type DE

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12	14	16	18	20
Weight (lbs./ft.)	.24	.41	.62	.66	.80	.88	.96	1.16	2.0	2.36	2.75	3.09	3.44
Inside Bend Radius (inches)	.625	.625	1.0	1.0	1.5	1.75	1.75	2.0	2.5	3.0	3.5	4	4
Length Required for 180° Bend (inches)	9.2	12.5	15	18	23	25	29	38	46	62	72	80	85
Minimum Burst Pressure (psig)	65	50	44	40	36	30	25	20	15	13	12	11	10
Internal Working Pressure (psig)	16	13	11	10	9	7.5	6	5	3.75	3.25	3	2.75	2.5
Crush Resistance (lbs./ft.)	490	280	550	360	800	700	600	500	400	360	300	200	190
Axial Tensile Strength (lbs.)	600	800	1000	1200	1400	1700	2000	3000	3600	6000	7000	8000	9000
Retracted Length (in./ft.)	6	6	5	5	4.75	4.75	4.75	4.5	4.5	3.5	3.5	3	3
Neg. Pressure Req. to Collapse (hg.in.)	24	23	22	21	16	14	11	12	10	8	7	5	5
Operating Temperature Range	-40°F to +250°F												

* FlexKing Type DE is normally available in 25 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

FlexKing Type DFG – Designed for hot air handling of fume and exhaust control. Type DFG features a double ply of neoprene coated fiberglass fabric and a helical wire reinforcement. Fiberglass ducting has good flexibility, but is not recommended for severe continuous flexing. It has excellent flame-resistant qualities.



Type DFG

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.31	.46	.56	.71	.90	.96	1.08	1.33	2.04
Inside Bend Radius (inches)	.75	.75	1	1	1.5	1.5	1.5	2	2.5
Length Required for 180° Bend (inches)	10	13	18	20	24	27	29	38	48
Minimum Burst Pressure (psig)	56	50	40	38	36	34	32	30	20
Internal Working Pressure (psig)	14	12.5	10	9.5	9	8.5	8	7.5	5
Crush Resistance (lbs./ft.)	490	280	550	360	800	700	600	500	400
Axial Tensile Strength (lbs.)	225	340	450	560	680	790	900	1130	1350
Retracted Length (in./ft.)	5	4.5	4	3.5	3.25	3.5	3.75	3	3.25
Neg. Pressure Req. to Collapse (hg.in.)	24	23	22	21	20	17	12	12	11
Operating Temperature Range	-40°F to +250°F								

* FlexKing Type DFG is normally available in 25 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

* Contact Customer Service for complete details.

Coatings increase the service life and improve the performance of Thermoid industrial ducting. They reduce the loss of air, gases, etc. through the duct wall... increase abrasion resistance... increase chemical resistance.

Coatings *reduce* ducting flexibility, reduce inside diameter of duct, and increase weight and wall thickness of duct.

Available Coatings

Neoprene (CR) (Black) – Neoprene is the most commonly used industrial duct coating. It resists ozone, sunlight oxidation, heat and flame. Neoprene performs well in contact with oils, water and some chemicals. It has good tensile strength and resilience.

Maximum Recommended Coatings

Neoprene – 4 Coats

For coating, specify duct type and number of dip coats.

Example: One (1) dip coat of neoprene.



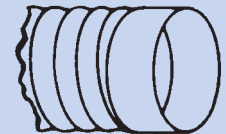
End Finishes

The following end finishes are integrally manufactured into the ducting.

This section applicable to series FlexKing, Tuftex, Neoflex, Silfex and Cyclone Only.

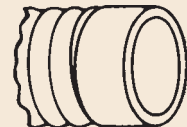
Soft End

That portion of the duct where the wire reinforcement is omitted, having the same number of plies as duct body, plus one additional ply of fabric over soft area. This type of end provides a smooth clamping area.



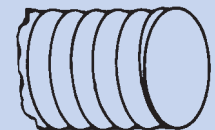
Reduced End

Special – The hose end has an ID that is smaller than the duct body. A rubber insert usually forms this end.



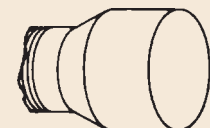
Plain End

Hose with a plain end is simply cut at a given point, the end being the same as the duct body. The wire at the cut end is crimped back to prevent snagging. All standard items are furnished with plain ends.



Belled End

Special – A belled end has a soft end with an ID larger than the duct body.



Neoflex®

Neoflex ducting is designed for conveying hot or cold temperature air and fume control applications ranging from -40°F to +300°F. It is not recommended for applications involving the movement of liquids or abrasive materials, or for negative pressure applications. Its excellent flexibility allows for easy installation around obstructions and sharp bends. Typical applications include portable generator cooling, heater ducts and electronic equipment cooling.

Neoflex Type SNF – This extremely lightweight, highly flexible, low pressure ducting is suitable for conveying fumes and air. Short lengths can be easily attached together to form a continuous length. It features a single ply of neoprene coated fiberglass fabric with an internally exposed helical wire reinforcement.



Type SNF

Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.15	.23	.31	.39	.47	.55	.63	.78	.95
Inside Bend Radius (inches)	.50	.75	1.00	1.25	1.50	1.75	2.00	2.23	2.50
Length Required for 180° Bend (inches)	8	12	16	20	24	28	32	39	46
Minimum Burst Pressure (psig)	120	105	85	58	44	30	26	16	10
Internal Working Pressure (psig)	30	26	21	14.5	11	7.5	6.5	4	2.5
Maximum Leakage (cfm/ft. at working pressure)	.030	.045	.060	.075	.090	.105	.120	.135	.150
Crush Resistance (lbs./ft.)	400	320	290	240	200	190	145	105	60
Axial Tensile Strength (lbs.)	425	575	700	900	900	900	900	900	900
Compressed Length (inches per foot)	3.5	3.5	3.5	2.5	2.0	2.0	2.0	2.0	2.0
Operating Temperature Range	-40°F to +300°F								

* NeoFlex Type SNF is normally available in 10 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

Neoflex Type DNF – It features a double ply of neoprene coated fiberglass fabric with the helical wire reinforcement encased between two plies of fabric. Higher pressure rating, improved air flow and less air friction loss are the benefits of the 2-ply construction.



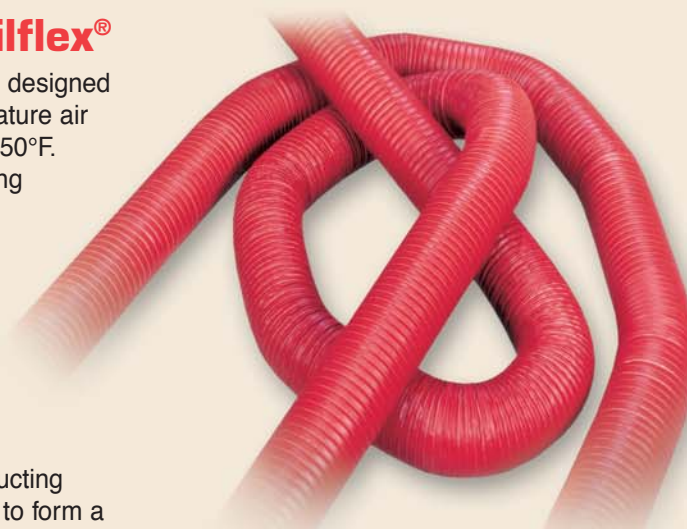
Type DNF

Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.22	.35	.47	.58	.69	.81	.92	1.15	1.35
Inside Bend Radius (inches)	.75	1.10	1.25	1.50	1.75	2.00	2.25	3.00	4.00
Length Required for 180° Bend (inches)	10	14	19	24	28	32	38	50	60
Minimum Burst Pressure (psig)	185	160	144	84	76	48	43	38	22
Internal Working Pressure (psig)	46	40	36	21	19	12	9.5	6.5	5.5
Maximum Leakage (cfm/ft. at working pressure)	.020	.030	.040	.050	.060	.070	.080	.100	.120
Crush Resistance (lbs./ft.)	400	320	290	240	200	190	145	105	60
Axial Tensile Strength (lbs.)	550	720	900+	900+	900+	900+	900+	900+	900+
Compressed Length (inches per foot)	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.0
Operating Temperature Range	-40°F to +300°F								

* NeoFlex Type DNF is normally available in 10 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

* Contact Customer Service for complete details.

Silflex ducting products are designed to handle extreme high and low temperature air handling applications ranging from -80°F to +550°F. They are not recommended for applications involving the movement of liquids or abrasive materials, or for negative pressure applications. This ducting is extremely flexible and can be easily installed around obstructions and sharp bends. Typical applications include electronic equipment cooling, paper processing equipment, engine compartment air handling, and fume removal from aluminum and glass manufacturing.



Silflex Type SSF – Lightweight and extremely flexible, this ducting minimizes waste since short sections can be joined together to form a continuous length. It features a single ply of silicone coated fiberglass fabric with an internally exposed helical wire reinforcement.

Type SSF

Inside Diameter (inches)	2	3	4	5	6
Weight (lbs./ft.)	.19	.29	.38	.48	.58
Inside Bend Radius (inches)	.50	.75	1.0	1.25	1.50
Length Required for 180° Bend (inches)	8	12	16	20	24
Minimum Burst Pressure (psig)	102	88	69	57	41
Internal Working Pressure (psig)	26	22	17	14	10
Maximum Leakage (cfm/ft. at working pressure)	.010	.015	.020	.025	.030
Crush Resistance (lbs./ft.)	400	320	290	240	200
Axial Tensile Strength (lbs.)	375	535	660	870	900
Compressed Length (inches per foot)	3.5	3.5	2.5	2.1	2.0
Operating Temperature Range	-80°F to +550°F				

* Silflex Type SSF is normally available in 11 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

Silflex Type DSF – This ducting features a double ply of silicone coated fiberglass fabric with the helical wire reinforcement encased between two plies of fabric. The liner allows for improved air flow and less air friction loss. Plus, it also provides a higher pressure rating than the Silflex SSF.



Type DSF

Inside Diameter (inches)	2	3	4	5	6
Weight (lbs./ft.)	.20	.33	.44	.55	.66
Inside Bend Radius (inches)	.75	1.0	1.25	1.50	.175
Length Required for 180° Bend (inches)	10	14	19	24	28
Minimum Burst Pressure (psig)	165	142	125	76	68
Internal Working Pressure (psig)	42	35	31	19	17
Maximum Leakage (cfm/ft. at working pressure)	.016	.024	.032	.040	.048
Crush Resistance (lbs./ft.)	400	320	290	240	200
Axial Tensile Strength (lbs.)	525	680	860	900+	900+
Compressed Length (inches per foot)	4.5	4.5	4	3.5	3.5
Operating Temperature Range	-80°F to +550°F				

* Silflex Type DSF is normally available in 11 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

* Contact Customer Service for complete details.

Tuftex®

The Tuftex line of ducting is one of a kind in the industry that borders on a general purpose industrial hose. The line provides an integrally vulcanized rubber liner and cover with external corrugation that enhances its flexibility while maintaining a smooth bore (Tuftex LSH-CB has a corrugated liner and cover for maximum flexibility). This line is designed for gravity or positive and negative pressure applications in bulk material handling applications.

Tuftex Type CD – This flexible, long service hose is designed to handle lightweight abrasive materials. It can be used for the transmission of liquids, grindings and contaminated air. Its construction consists of a single ply neoprene coated fabric cover, a .032" abrasion resistant rubber liner, and a spring steel wire helix.



Type CD

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.15	.30	.42	.80	1.0	1.25	1.4	1.8	2.5
Inside Bend Radius (inches)	1.25	1.50	1.50	1.75	2.0	2.5	4.0	6.0	9.0
Length Required for 180° Bend (inches)	10	13	17	19	21	29	33	44	50
Minimum Burst Pressure (psig)	30	28	26	23	20	18	16	14	12
Internal Working Pressure (psig)	10	9	8	7	6.5	6	5	4.5	4
Maximum Leakage (cfm/ft. at working pressure)	.020	.025	.030	.035	.040	.045	.050	.055	.060
Crush Resistance (lbs./ft.)	275	265	245	365	285	255	232	255	240
Axial Tensile Strength (lbs.)	287	527	703	879	1055	1231	1407	1759	2111
Negative Pressure Req. to Collapse (in. hg.)	27	27	23	22	20	18	14	9	2
Operating Temperature Range	-40°F to +250°F								

* Tuftex Type CD is normally available in 20 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

Tuftex Type KD – Lightweight and flexible, this ducting features a neoprene liner that resists oils and chemicals. Features include a single ply neoprene coated fabric cover, a .032" neoprene rubber liner, and a spring steel wire helix.

Type KD

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.15	.30	.42	.80	1.0	1.25	1.4	1.8	2.5
Inside Bend Radius (inches)	1.25	1.50	1.50	1.75	2.0	2.5	4.0	6.0	9.0
Length Required for 180° Bend (inches)	10	13	17	19	21	29	33	44	50
Minimum Burst Pressure (psig)	30	28	26	23	20	18	16	14	12
Internal Working Pressure (psig)	10	9	8	7	6.5	6	5	4.5	4
Maximum Leakage (cfm/ft. at working pressure)	.020	.025	.030	.035	.040	.045	.050	.055	.060
Crush Resistance (lbs./ft.)	275	265	245	365	285	255	232	255	240
Axial Tensile Strength (lbs.)	287	527	703	879	1055	1231	1407	1759	2111
Negative Pressure Req. to Collapse (in. hg.)	27	27	23	22	20	18	14	9	2
Operating Temperature Range	-40°F to +250°F								

* Tuftex Type KD is normally available in 20 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

* Contact Customer Service for complete details.

Tuftex MH1; MH2; and MH3 – This material handling hose is designed for gravity or positive and negative pressure applications in bulk material handling. All types are constructed with excellent abrasive resistant materials. Three types of MH hose are available which lets you select the one that best fits your application.

Construction Type MH (Material Handling)

MH Type 1

- A. Spring steel wire helix support.
- B. Single-ply synthetic fabric reinforcement.
- C. Abrasive-resistant rubber tube .062 inch thick.
- D. Abrasive-resistant rubber cover.

MH Type 2

- A. Spring steel wire helix support.
- B. Single-ply synthetic fabric reinforcement.
- C. Abrasive-resistant rubber tube .125 inch thick.
- D. Thick abrasive-resistant rubber cover.

MH Type 3

- A. Spring steel wire helix support.
- B. Double-ply synthetic fabric reinforcement.
- C. Abrasive-resistant rubber tube .250 inch thick.
- D. Thick abrasive-resistant rubber cover.

MH1 (Light Duty)*

Inside Diameter (inches)	3	4	5	6	7	8	9	10	11	12
Weight (lbs./ft.)	1.5	2.0	2.2	2.25	3.0	3.5	4.0	4.5	5.0	6.0
Inside Bend Radius (inches)	5	6	7	8	10	11	12	13	14	15
Length Required for 180° Bend (inches)	26	28	30	37	44	50	57	63	69	75
Minimum Burst Pressure (psig)	100	85	66	47	44	41	33	29	24	22
Internal Working Pressure (psig)	33	28	22	16	14	13	11	10	8	7
Crush Resistance (lbs./ft.)	1300	1500	1000	780	680	605	590	615	750	700
Negative Vacuum to Collapse (inches of hg.)	27	27	24	20	15	12	10	7	6	6
Operating Temperature Range	-40°F to +280°F									

MH2 (Medium Duty)*

Inside Diameter (inches)	3	4	5	6	7	8	9	10	11	12
Weight (lbs./ft.)	1.5	2.5	3.0	3.5	4.0	4.5	5.5	6.0	6.5	7.0
Inside Bend Radius (inches)	5	7	9	11	12.5	13	15	16	17	18
Length Required for 180° Bend (inches)	33	40	50	59	66	72	78	84	91	97
Minimum Burst Pressure (psig)	110	90	75	65	55	45	43	40	37	35
Internal Working Pressure (psig)	36	30	25	22	18	15	14	13	12	11
Crush Resistance (lbs./ft.)	1300	1550	1100	860	715	790	875	770	750	700
Negative Vacuum to Collapse (inches of hg.)	27	27	25	22	18	14	13	13	12	12
Operating Temperature Range	-40°F to +280°F									

MH3 (Heavy Duty)*

Inside Diameter (inches)	3	4	5	6	7	8	9	10	11	12
Weight (lbs./ft.)	2	3	3.5	4.25	5	6.25	7.5	8.5	10.5	12.5
Inside Bend Radius (inches)	8	11	13	14	15	16	17	18	19	20
Length Required for 180° Bend (inches)	38	48	55	61	67	73	80	88	92	99
Minimum Burst Pressure (psig)	185	175	156	138	119	100	83	70	52	40
Internal Working Pressure (psig)	61	58	51	45	39	33	27	25	17	13
Crush Resistance (lbs./ft.)	1600	1550	1100	1050	1000	900	875	770	780	700
Negative Vacuum to Collapse (inches of hg.)	27	27	27	24	21	20	19	18	17	15
Operating Temperature Range	-40°F to +280°F									

* Tuftex Type MH1, MH2 and MH3 are normally available in 20 foot lengths, however these products can be ordered in a range of diameter sizes and lengths.

Tuftex®

Tuftex Type LSH-CB (Leaf Suction Hose) – This corrugated bore hose is produced using weather resistant and excellent abrasive resistant rubber compounds which provide unequalled flexibility, ease of handling and long trouble-free service life for a material handling hose.

Construction:

- A. Abrasive resistant rubber liner.
- B. Double-ply synthetic fabric reinforcement.
- C. Abrasive resistant rubber cover.
- D. Spring steel wire helix support.



Inside Diameter (inches)	6	8	10	12	14	16
Approx. Weight (lbs./ft.)	3.6	4.2	6	8	10	12
Length Required for 90° Bend (inches)	16	18	22	27	31	39
Axial Tensile Strength	1000+ pounds					
Temperature Range	-40°F to +250°F					
Negative Pressure to Collapse (inches hg.)	27	27	27	27	20	17

* Tuftex Type LSH-CB is normally available in 20 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

* Contact Customer Service for complete details.

Cyclone®

The Cyclone line of ducting provides excellent service in applications requiring the conveying of large volumes of air and fume control. It's excellent for portable blower applications, temporary ship construction ventilation, welding fume removal, utility manhole ventilation, portable heaters, and mobile vehicle air conditioning and heating units.

Cyclone Type UB – This flexible ducting with its exceptional compressibility (approx. 8 to 1) permits ease of storage and handling. It maintains a smooth bore when operating at working pressure. To protect the ducting when being dragged over rough surfaces, a scuff strip is included for added durability.

Type UB Construction:

- A. Galvanized spring steel wire helix, fully enclosed.
- B. Single ply vinyl coated polyester fabric.
- C. Thermoplastic scuff strip.
- D. Nylon thread stitching.

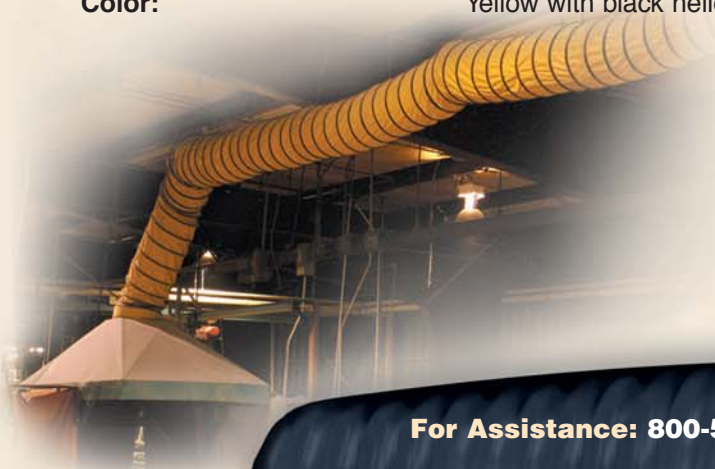
Type UB Technical Data:

Inside Diameter (inches): 5 to 30
Larger diameters available upon request.

Operating Temp Range: -40°F to +250°F

Standard Lengths: 10, 15 and 25 ft.
Longer lengths available.

Color: Yellow with black helical wear strip.



Cyclone Type UBI – This preinsulated ducting is designed to move large volumes of hot or cold conditioned air with negligible heat loss or gain. Its exterior scuff strip provides abrasion resistance. Both flexible and lightweight, it provides a compressibility ratio of approximately 5 to 1.

Type UBI Construction:

- A. Galvanized spring steel wire helix, fully enclosed.
- B. Two ply vinyl coated polyester fabric.
- C. Insulation blanket encased between material plies.
- D. Thermoplastic scuff strip.
- E. Nylon thread stitching.

Type UBI Technical Data:

Inside Diameter (inches):	5 to 30 Larger diameters available upon request.
Operating Temp. Range:	-40°F to +250°F
Standard Lengths:	10, 15 and 25 ft. Longer lengths available.
Color:	Yellow with black helical wear strip.

Cyclone Type NNI – This ducting features excellent thermal qualities with factory installed insulation, and is capable of moving large volumes of pre-conditioned air. Its smooth liner offers less air friction loss than other types. Compressibility is approximately 5 to 1. It's excellent for mobile vehicles that have air conditioning units manufactured to order.

Type NNI Construction:

- A. Galvanized spring steel wire helix, fully enclosed.
- B. Three ply neoprene coated nylon fabric with liner ply bonded to interior.
- C. Insulation blanket encased between material plies.
- D. Thermoplastic scuff strip.
- E. Nylon thread stitching.

Type NNI Technical Data:

Inside Diameter (inches):	5 to 30 Larger diameters available upon request.
Operating Temp. Range:	-65°F to +250°F
Lengths:	Up to 50 ft.
Color:	Olive Drab.

Cyclone Type NCR – Designed for applications involving sawdust, powders, dry cement, dust and assorted other light abrasive materials. A neoprene dip coat is applied to the interior and exterior for dust control. Suitable for applications requiring large diameters for dust control.

Type NCR Construction:

- A. Galvanized spring steel wire helix, fully enclosed.
- B. Single ply neoprene coated nylon fabric.
- C. Neoprene rubber dip coating inside and outside.

Type NCR Technical Data:

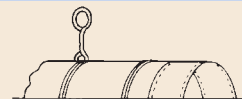
Inside Diameter (inches):	5 to 30 Larger diameters available upon request.
Operating Temp. Range:	-40°F to +250°F
Lengths:	Up to 20 ft.
Color:	Black.

Cyclone Accessories

Belt Loops – When repeated loosening and tightening of clamps is expected, belt loops should be permanently attached to the ducting's soft cuff. The loops are two plies of the same material as the soft cuff.

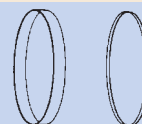


Hanger Hooks permit suspension of ducting from an overhead travel wire. Hooks are made of non-corrosive metal and are permanently attached to ducting.



Coupling:

1. Flatband spring steel couplings are available.
2. Wire rings are also available and more economical than flat band couplings.



Connecting to Blower – One end of a single length can be supplied with a soft cuff, which can be easily slipped over and clamped to the fan or blower collar.

To Couple: Flat band or wire ring coupling.

To Disconnect: Simply reverse the procedure shown above.

INSERT AND
TWIST



PULL BACK
AND LOCK



Standard Tolerances

The following tolerances apply to all Thermoid industrial ducting, unless otherwise stated or produced to a specific customer's blueprint.

Product Series

Tuftex®, **FlexKing®** and related products within the scope of these series.

A. Random Length(s) No Cuffed Ends

1. Tuftex I.D. (Inside Diameter): $\pm .03"$ (1/32")
FlexKing I.D. (Inside Diameter): Up to 8" -- 0"
+ .06"
Over 8" -- 0"
+ .08"
2. O.A.L. (Overall Length): + 1/4" per foot length
- 1/8" per foot length

Note: These product series when coiled, and stored or shipped in this manner, will frequently “set” or tend to remain in that position. They also have a tendency to shrink 2 to 3% in overall length due to the nature of relative light walled rubber, cotton or nylon. Duct/hose can be installed to nominal length.

B. Cuffed (Soft End) Items

1. Tuftex I.D. (Inside Diameter): $\pm .03"$ (1/32")
FlexKing I.D. (Inside Diameter): Up to 8" -- 0"

$+ .06"$
Over 8" -- 0"
 $+ .08"$
2. O.A.L. (Overall Length): $\pm 1/4"$ per foot length
3. Cuff (Soft End) Length: $+ 1/4"$

$- 1/8"$

Cyclone Series

A. Random (Duct Excluding Cuffs)

1. I.D.: + 1/4"
- 1/8"
2. O.A.L.: + 1/2" per foot
- 1/8" per foot

B. Cuff(s) Soft End(s)

1. I.D.: + 1/4"
- 0"
2. Cuff Lengths: +1"
- 1/2"

Product Series

Neoflex®, **Silflex®** and related products within these series.

A. Random Length (Plain Ends)

1. I.D. (Inside Diameter): $\pm .03"$ (1/32")
2. O.A.L. (Overall Length): $\pm 1/4"$ per foot

B. Cut to Length – Cuffed (Soft End Item)

1. I.D. (Inside Diameter): $\pm .03$ (1/32")
2. O.A.L. (Overall Length):
 - (a) Under 18" O.A.L. $\pm 1/8$ "
 - (b) 18" O.A.L. and longer $\pm 1/8$ " per foot of length

3. Soft Ends (Cuffs):

- ± 1/4"
- 1/8"





Air/Multipurpose – Hose



Agricultural – Belts, Belting, Ducting & Hose



Automotive – Hose



Chemical – Hose



Dock Loading – Hose



Ducting – Aviation & Industrial



Food Industry – Belting & Hose



Industrial Rubber Bands



Light Industrial/Automation – Belts, Belting, Ducting & Hose



LP Gas – Hose



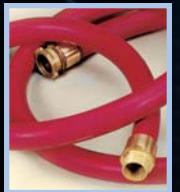
Material Handling – Ducting, Belts, Belting & Hose



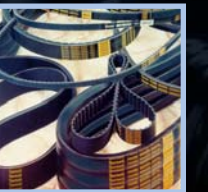
Marine – Hose



Package Handling – Conveyor Belting



Petroleum – Hose



Power Transmission Belts



Rubber Rolls



Special Application – Hose



Steam – Hose



Water – Hose



Welding – Hose

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