Thermoid®

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.

* Contact Customer Service for complete details.

FlexKing Type DE – The most rugged of the two-ply FlexKing. It has an unequaled 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.

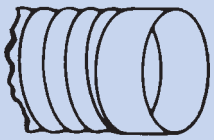
End Finishes

The following end finishes are integrally manufactured into the ducting.

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

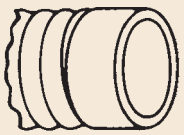
Soft End

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.



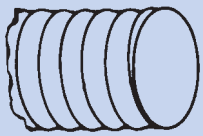
Reduced End

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.