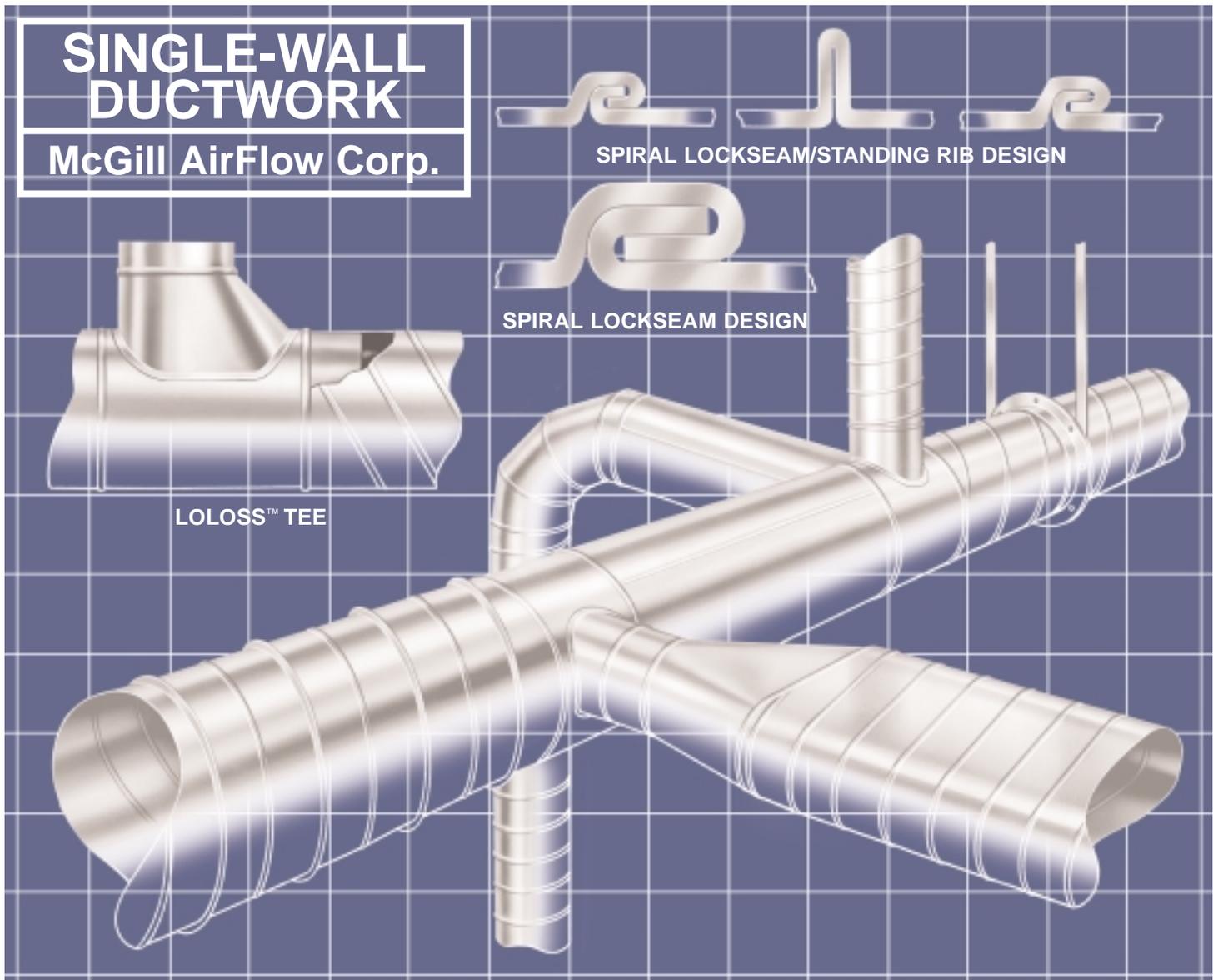


# Single-Wall, Round and Flat Oval Duct and Fittings

SINGLE-WALL DUCTWORK  
and SINGLE-WALL DUCTWORK  
with ACOUSTI-LINE™ LINER

a McGill AirFlow™ product



# Single-Wall, Round Duct

McGill AirFlow Corporation's single-wall, round duct is fabricated to exacting tolerances that make it easy to assemble and essentially leak free. Round duct costs less to install than rectangular duct and because of its efficiency, a round duct system offers lower operating costs. Three standard types of single-wall, round duct are available: spiral lockseam, spiral lockseam with a standing rib, and longitudinal seam.

Spiral lockseam duct is constructed with an interlocking helical seam that runs the length of the duct. The lockseam is formed on the outside of the duct, providing a smooth interior that results in minimal friction loss. This seam increases the duct's structural strength and rigidity so that it can be used in lighter gauges than rectangular or longitudinal seam duct, making it less expensive, easier to handle, and easier to install. Another factor which makes spiral lockseam duct economical is that it can be fabricated in lengths of 20 feet or greater. These longer sections of duct mean fewer joints and faster installation.

Spiral lockseam duct is available with a standing rib. This external stiffening rib gives the duct strength and rigidity equal to that of heavier gauges of standard spiral lockseam duct.

Longitudinal seam duct is available for applications that require very heavy gauges or large diameters. The longitudinal seam of the duct is solid welded.

A pipelock construction is used for some lighter gauge duct (residential and light commercial) and some PVC-coated metal duct.

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## Round Duct — Available Sizes, Materials, and Thicknesses

Construction	Diameters <sup>1</sup>	Lengths <sup>2</sup>	Materials <sup>3,6</sup>	Thicknesses
<b>UNI-SEAL™</b> Duct (spiral lockseam)	3-84 inches	1-20 feet	Galvanized Steel	28-14 gauge
			Stainless Steel	26-20 gauge
	3-60 inches <sup>4</sup>		Aluminum	0.025-0.063 inch
<b>UNI-RIB®</b> Duct (spiral lockseam with standing rib)	9-60 inches	1-20 feet	Galvanized Steel	28-22 gauge
			Aluminum	0.025-0.050 inch
<b>Longitudinal Seam</b> Duct (solid welded)	8-90 inches <sup>5</sup>	1-6 feet	Galvanized Steel	20-10 gauge
			Stainless Steel	22-10 gauge
	8-60 inches <sup>4,5</sup>		Aluminum	0.040-0.090 inch

<sup>1</sup> McGill AirFlow's single-wall, round duct is available with the following diameters: 3-inch through 15-inch diameters in 1/2-inch-diameter increments, 16-inch through 38-inch diameters in 1-inch-diameter increments, and 40-inch through 90-inch diameters in 2-inch-diameter increments.

<sup>2</sup> Standard lengths of round UNI-SEAL and UNI-RIB duct are 10, 12, and 20 feet; longer lengths are available. Standard lengths of round longitudinal seam duct are 5 and 6 feet.

<sup>3</sup> Single-wall, round duct is also available in nongalvanized carbon steel and paintable galvanized steel. Stainless steel is generally type 304 or 316. Aluminum is generally type 3003-H14. UNI-COAT single-wall, round duct (polyvinyl-chloride-coated galvanized steel) is available on special order.

<sup>4</sup> Aluminum single-wall, round duct is available in diameters greater than 60 inches on special order.

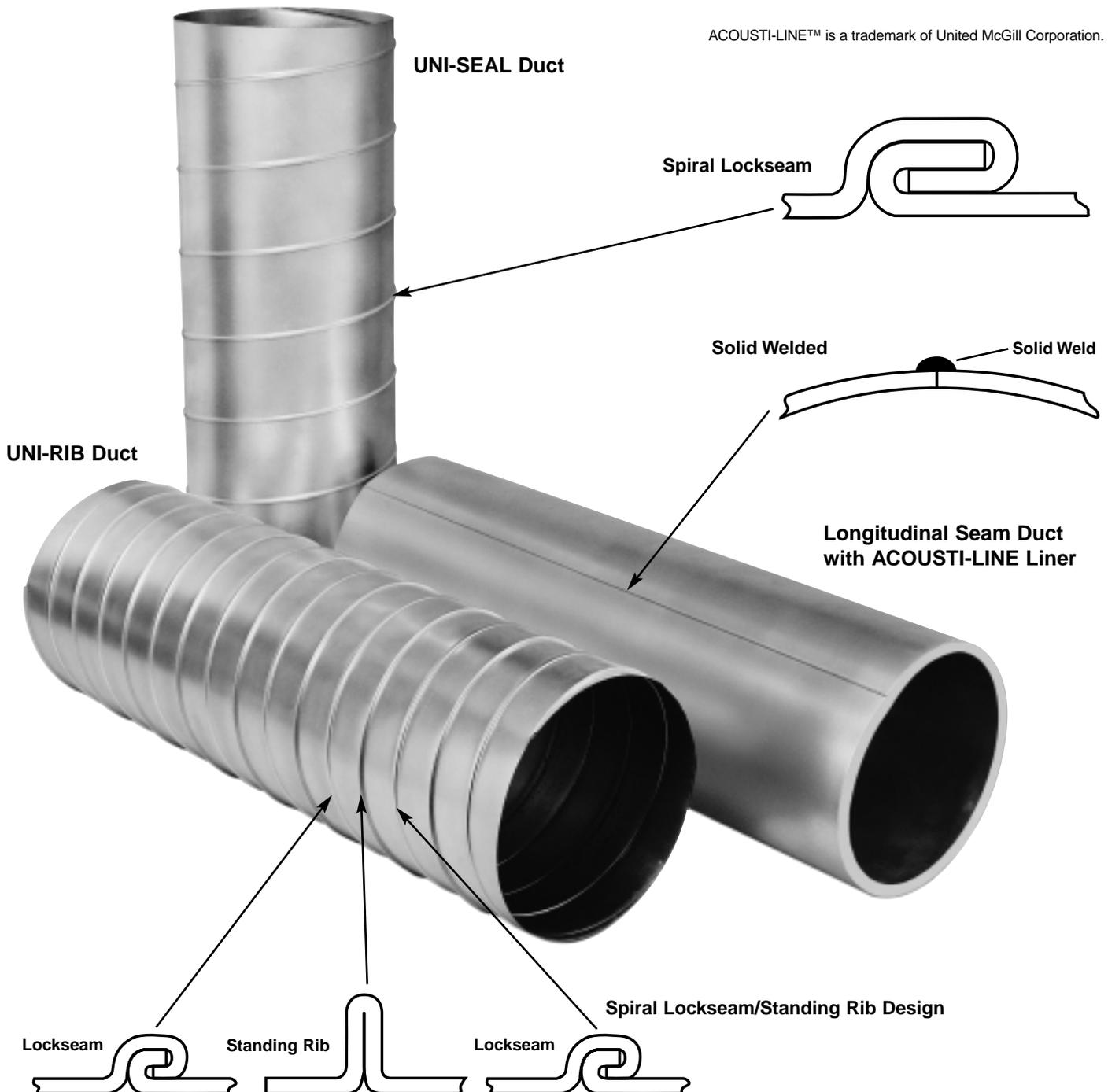
<sup>5</sup> Single-wall, round longitudinal seam duct is available in diameters smaller than 8 inches on special order.

<sup>6</sup> SilverGuard™ single-wall, round duct (pre-coated with an antimicrobial) is available on special order.

# Single-Wall, Round Duct with ACOUSTI-LINE™ Insulating Liner

Single-wall ductwork is available with an ACOUSTI-LINE insulating liner coated to protect against erosion and microbial growth. This acoustical/thermal liner can be used with air velocities up to 5,000 fpm and temperatures up to 250°F. It is available in thicknesses of 1 and 1½ inches and has a maximum thermal conductivity (k) factor of 0.24 Btu/hour/square foot/°F/inch thickness. Formulated with an anti-microbial agent that is EPA registered, the liner's acrylic coating resists the growth of fungus and bacteria (tested in accordance with ASTM C 1071 and ASTM G21 and G22). The liner's surface can be cleaned according to procedures detailed in the North American Insulation Manufacturers Association (NAIMA) Duct Cleaning Guide.

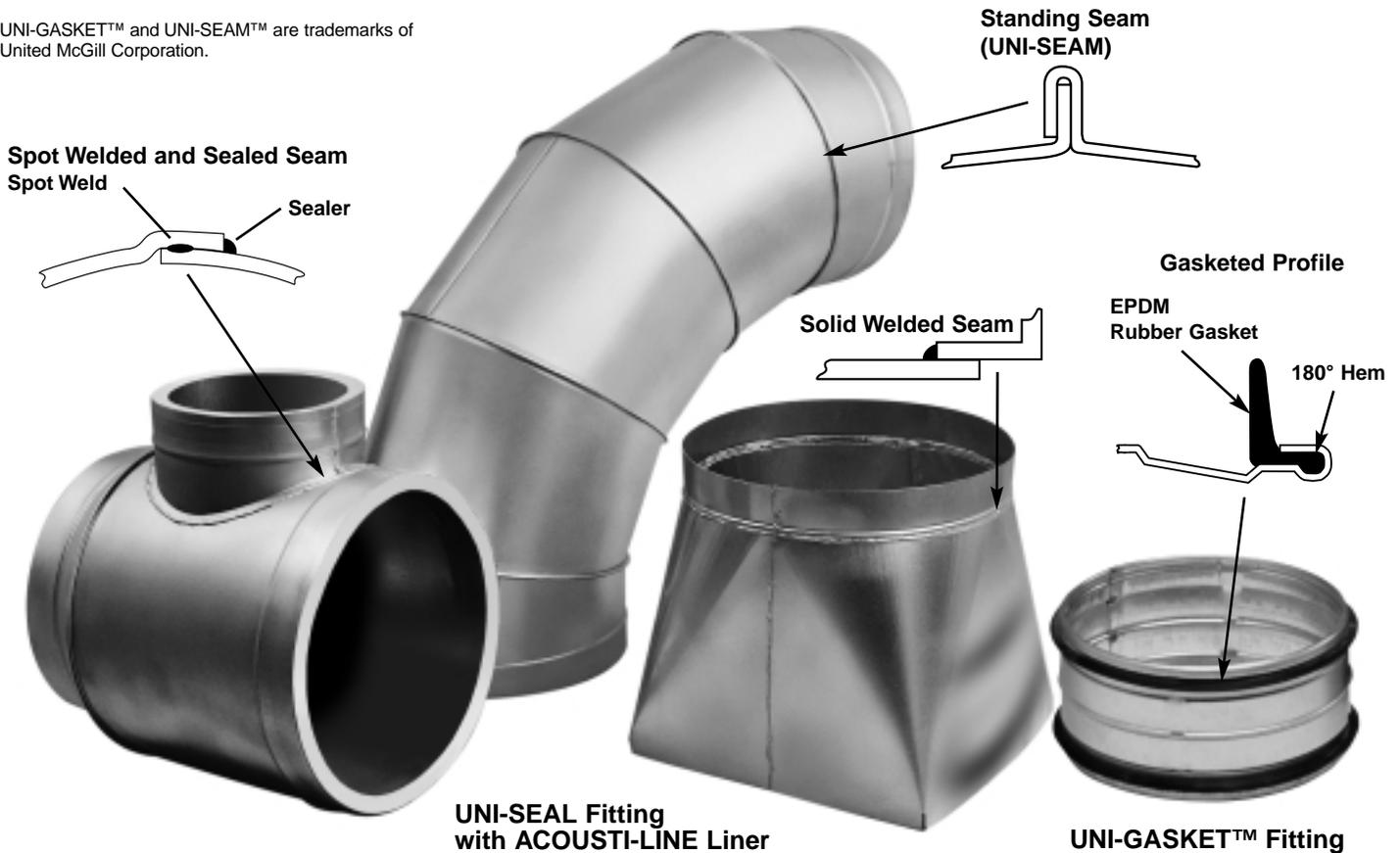
ACOUSTI-LINE™ is a trademark of United McGill Corporation.



# Single-Wall, Round Fittings

A complete line of fittings designed for low leakage and efficient performance is available for use with McGill AirFlow's single-wall, round duct. Each fitting is sized accurately to allow easy field assembly. Fittings are available in gasketed and non-gasketed profiles in solid welded, spot or tack welded and sealed, lap and riveted (or screwed) and sealed, and UNI-SEAM™ standing seam constructions. Single-wall, round fittings can be supplied with an ACOUSTI-LINE insulating liner to match our single-wall, round lined duct.

UNI-GASKET™ and UNI-SEAM™ are trademarks of United McGill Corporation.



## Round Fittings — Available Sizes, Materials, and Thicknesses

Construction	Diameters <sup>1</sup>	Materials <sup>2,5</sup>	Thicknesses
UNI-SEAL Fittings <sup>4</sup> (spot or tack welded and sealed, lap and riveted/screwed and sealed, solid welded, or standing seam)	3-90 inches	Galvanized Steel	26-10 gauge
		Stainless Steel	26-10 gauge
	3-60 inches <sup>3</sup>	Aluminum	0.032-0.090 inch
UNI-GASKET Fittings	3-24 inches <sup>6</sup>	Galvanized Steel	26-22 gauge

<sup>1</sup> Except as noted, McGill AirFlow's single-wall, round fittings are available with the following diameters: 3-inch through 15-inch diameters in 1/2-inch-diameter increments, 16-inch through 38-inch diameters in 1-inch-diameter increments, and 40-inch through 90-inch diameters in 2-inch-diameter increments.

<sup>2</sup> Single-wall, round fittings are also available in nongalvanized carbon steel and paintable galvanized steel. Stainless steel is generally type 304 or 316. Aluminum is generally type 3003-H14. UNI-COAT single-wall, round fittings (polyvinyl-chloride-coated galvanized steel) are available on special order.

<sup>3</sup> Aluminum single-wall, round fittings are available in diameters greater than 60 inches on special order.

<sup>4</sup> Fittings that are 16 gauge (Aluminum-0.090 inch) or heavier are fully welded.

<sup>5</sup> SilverGuard™ single-wall, round fittings (pre-coated with an antimicrobial) is available on special order.

<sup>6</sup> Except as noted, McGill AirFlow's single-wall, round UNI-GASKET fittings are available with the following diameters: 3-inch through 12-inch diameters in 1-inch-diameter increments, and 14-inch through 24-inch diameters in 2-inch-diameter increments.

## Single-Wall, Flat Oval Duct

For applications in which space restrictions prohibit the use of round duct, McGill AirFlow offers flat oval duct in spiral lockseam and longitudinal seam constructions. Flat oval duct provides a more efficient alternative to rectangular duct in these applications. McGill AirFlow manufactures flat oval duct with the same techniques used to make round duct. As a result, flat oval duct shares many of the performance characteristics of round duct. Compared with rectangular duct, it provides lower installation costs and, because of reduced leakage and pressure loss, lower operating costs.

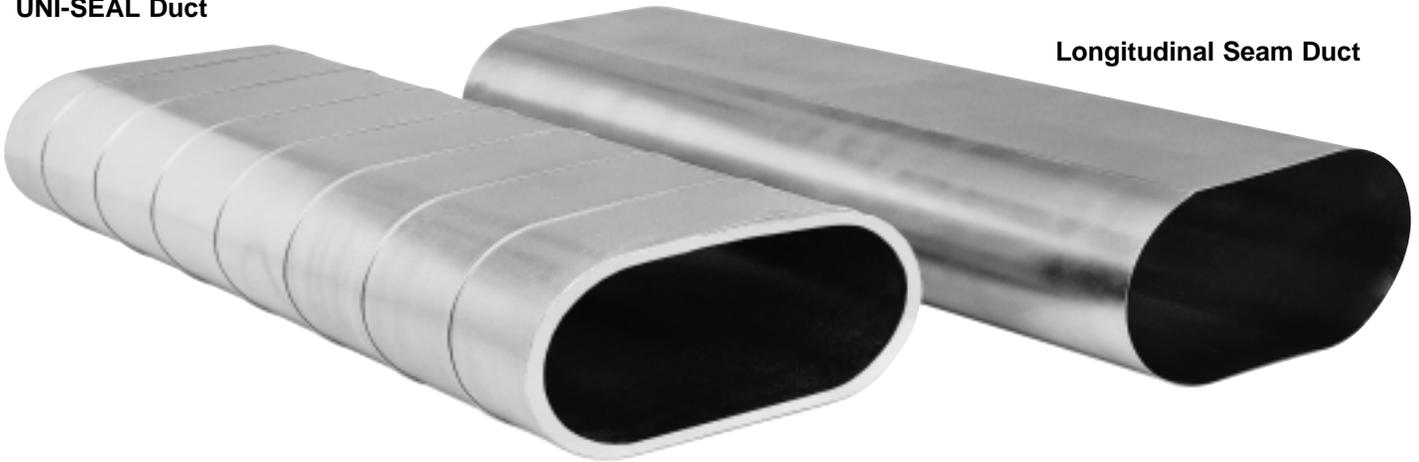
Spiral lockseam duct is constructed with an interlocking helical seam that runs the length of the duct. As with round spiral lockseam duct, the flat oval type combines efficient performance with a structural strength equal to that of heavier gauges of other types of duct.

Flat oval duct is available with a longitudinal seam construction for applications that require very heavy gauges or large sizes. The duct's longitudinal seam is solid welded.

A pipelock construction is used for some lighter gauge duct (residential and light commercial) and some PVC-coated metal duct.

**UNI-SEAL Duct**

**Longitudinal Seam Duct**



### Flat Oval Duct — Available Lengths, Materials, and Thicknesses

Construction	Lengths <sup>1</sup>	Materials <sup>2,3</sup>	Thicknesses
<b>UNI-SEAL Duct</b> (spiral lockseam)	1-12 feet	Galvanized Steel	28-18 gauge
		Stainless Steel	26-20 gauge
		Aluminum	0.025-0.063 inch
<b>Longitudinal Seam Duct</b> (solid welded)	1-6 feet	Galvanized Steel	20-10 gauge
		Stainless Steel	22-10 gauge
		Aluminum	0.040-0.090 inch

<sup>1</sup> Some standard sizes of flat oval UNI-SEAL duct are available only to lengths of 6 feet; longer lengths are available on special order. Standard lengths of flat oval longitudinal seam duct are 5 and 6 feet.

<sup>2</sup> Single-wall, flat oval duct is also available in nongalvanized carbon steel and paintable galvanized steel. Stainless steel is generally type 304 or 316. Aluminum is generally type 3003-H14. UNI-COAT single-wall, flat oval duct (polyvinyl-chloride-coated galvanized steel) is available on special order.

<sup>3</sup> SilverGuard™ single-wall, flat oval duct (pre-coated with an antimicrobial) is available on special order.

## Single-Wall, Flat Oval Fittings

A complete line of fittings designed for low leakage and efficient performance is available for use with McGill AirFlow's single-wall, flat oval duct. Each fitting is sized accurately to allow easy field assembly. Fittings are available in solid welded, spot or tack welded and sealed, lap and riveted (or screwed) and sealed, and standing seam constructions.



### Flat Oval Fittings — Available Materials and Thicknesses

Construction	Materials <sup>1,3</sup>	Thicknesses
<b>UNI-SEAL Fittings<sup>2</sup></b> (spot or tack welded and sealed, lap and riveted/screwed and sealed, solid welded, or standing seam)	Galvanized Steel	26-10 gauge
	Stainless Steel	26-10 gauge
	Aluminum	0.032-0.090 inch

<sup>1</sup> Single-wall, flat oval fittings are also available in nongalvanized carbon steel and paintable galvanized steel. Stainless steel is generally type 304 or 316. Aluminum is generally type 3003-H14. UNI-COAT single-wall, flat oval fittings (polyvinyl-chloride-coated galvanized steel) are available on special order.

<sup>2</sup> Fittings that are 16 gauge (Aluminum-0.090 inch) or heavier are fully welded.

<sup>3</sup> SilverGuard™ single-wall, flat oval fittings (pre-coated with an antimicrobial) is available on special order.

## Flat Oval Duct and Fittings — Available Size Ranges

Minor Axis (inches)	Major Axis (inches)		
	Minimum	Maximum Spiral Lockseam	Maximum Longitudinal Seam or Fitting Size
3	8	22	30
4	7	21	40
5	8	21	46
6	8	59	59
7	10	21	62
8	10	77	77
9	12	23	89
10	12	79	99
11	14	25	109
12	14	81	119
14	20	80	139
16	22	79	143
18	23	81	134
20	26	80	140
22	35	82	134
24	37	81	141
26	29	not available	137
28	31	not available	144
30	43	84	141
32	35	not available	139
34	37	not available	138
36	39	not available	136
38	41	not available	136
40	43	not available	143

Duct Express™ is a trademark of United McGill Corporation.

## Specifications

McGill AirFlow has prepared suggested specifications for duct and fitting products. These are available in McGill AirFlow's publication: *Recommended Specifications for Commercial and Industrial Round and Flat Oval Duct Systems*.

## Additional Information

Construction details, dimension drawings, and standard gauges for McGill AirFlow products are available. Please contact the McGill AirFlow sales representative, sales office, Duct Express™ outlet, or regional manufacturing plant nearest you.

The products depicted in this brochure were current at the time of publication. As a quality-conscious manufacturer, McGill AirFlow continually seeks ways to improve its products to better serve its customers. Therefore, all designs, specifications, and product features are subject to change without notice.

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 marketing@mcgillairflow.com

### Note:

McGill AirFlow Corporation also has sales representatives in other major cities.

### KEY

- Manufacturing Plant
- Also a Duct Express Outlet

**McGill AirFlow**  
 Corporation

An enterprise of United McGill Corporation — Founded in 1951

Web site: [www.mcgillairflow.com](http://www.mcgillairflow.com)