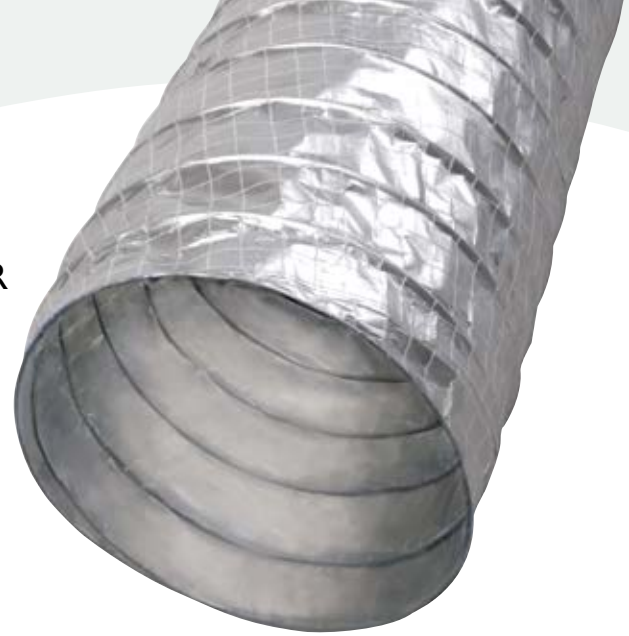




## S-LD FLEXIBLE AIR CONNECTOR



### S-LD Features and Benefits:

- Reduced total installed cost—fast, economical installation.
- Long standard lengths help reduce waste—easily cut to exact lengths, or spliced, at the job.
- Easily shaped to fit oval inlets.
- Underwriters Laboratories Listed.
- Complies with NFPA Standards 90A and 90B and most local, state and federal standards or codes.
- Maintenance free under normal conditions—highly resistant to rust, corrosion or fungus.
- Strict quality control over all raw materials and completed ducts.
- Will not balloon at recommended operating pressure.
- Will not collapse at recommended operating pressure.
- Assists absorbing system vibration transmitted through ductwork.
- Allows efficient safe installation for bathroom ventilating needs.
- Available through broad national distribution.
- Packaged compactly for efficient transporting, storing and handling.

### APPLICATIONS:

Thermaflex S-LD duct is a non-insulated air connector designed for use in all pressure cooling and heating systems. It is used in either supply or return sections: for branch ducts and duct connections to or between mixing units, induction units, control or terminal units and diffusion devices, including light troffers. Thermaflex S-LD duct provides economical means for handling misalignment between system components and ducts around obstacles where fabricated and fitted ducts are difficult and costly to install. This duct is equally suitable for new jobs or refit work, and is especially useful when making system extensions or changing conditioned zones now or in the future. Thermaflex S-LD duct offers further economy of installed cost, for example, as a return duct within conditioned spaces or in any zone where the function of insulated duct is not required.

[www.thermaflex.net](http://www.thermaflex.net)

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A division of Flex-Tek Group, a subsidiary of Smiths Group, plc.



# S-LD

Non-Insulated Flexible Air  
Connector for All Pressure Systems

## APPLICATIONS and ENGINEERING DATA:

|                                                                                                             |                                  |    |    |    |    |                           |    |    |    |    |  |
|-------------------------------------------------------------------------------------------------------------|----------------------------------|----|----|----|----|---------------------------|----|----|----|----|--|
| <b>Nominal Inside Diameter (inches):</b>                                                                    | 3                                | 4  | 5  | 6  | 7  | 8                         | 9  | 10 | 12 | 14 |  |
| <b>Length (feet):</b>                                                                                       | 25                               | 25 | 25 | 25 | 25 | 25                        | 25 | 25 | 25 | 25 |  |
| <b>Inside Bend Radius (inches):</b>                                                                         | 3                                | 4  | 5  | 6  | 7  | 8                         | 9  | 10 | 12 | 14 |  |
| <b>Operating Pressure (inches water column):</b> Positive = 10 inches      Negative = 1 inch                |                                  |    |    |    |    |                           |    |    |    |    |  |
| <b>Maximum Leakage</b><br>(cubic ft./min./linear ft./in. diameter)<br><b>At 10 inch water column:</b> 0.015 |                                  |    |    |    |    |                           |    |    |    |    |  |
| <b>Internal Operating Temperature Range (°F):</b> Minimum = -20      Maximum = 250                          |                                  |    |    |    |    |                           |    |    |    |    |  |
| <b>Velocity (feet per minute):</b>                                                                          | 5000                             |    |    |    |    |                           |    |    |    |    |  |
| <b>Surface Burning Characteristics:</b>                                                                     | Max. Flame Spread = 25           |    |    |    |    | Max. Smoke Developed = 50 |    |    |    |    |  |
| <b>Oxygen Index Ratings:</b>                                                                                | Reinforced Foil Laminate = 25.35 |    |    |    |    | Coated Wire = 27.74       |    |    |    |    |  |

## Construction and Materials:

The supporting helix of coated spring steel wire is permanently bonded to a reinforced film laminate cover.



## Suggested Specification:

Flexible duct for connections between \_\_\_\_\_ and \_\_\_\_\_ shall be Thermaflex S-LD duct rated for a maximum of 10" water column positive and 1" water column negative and maximum velocity of 5000 FPM and Listed by Underwriters Laboratories, Inc., under UL Standard 181 as a Class I air connector and complying with NFPA Standards 90A and 90B. Thermaflex S-LD duct shall be factory fabricated of coated spring steel wire helix permanently bonded to a foil reinforced film laminate cover. Not to be installed in lengths exceeding (14) feet.

## 10 Year Warranty:

Thermaflex warrants that all insulated and non-insulated products will be free from defects in materials and factory workmanship for a period of ten years from the date of manufacture. This warranty covers the flexible duct, materials and labor. This warranty applies only to ducts properly installed in accordance to Thermaflex's written installation instructions and under conditions specified in published performance data. Thermaflex shall not be liable to buyer or any third party for any special, secondary, incidental or consequential damages however arising.

