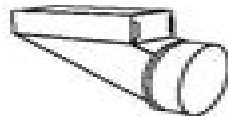


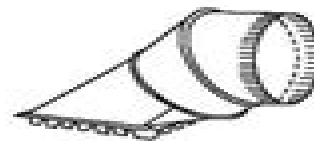
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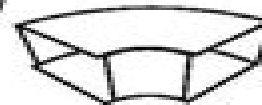
45° Angle



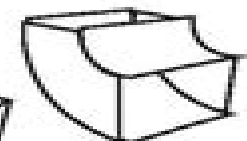
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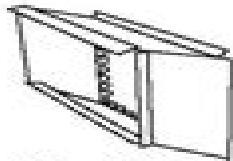
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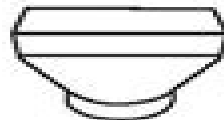
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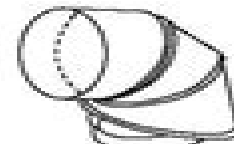
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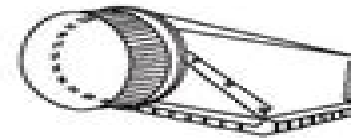
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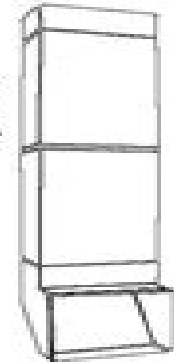
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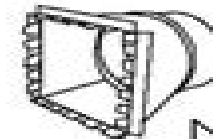
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No. 97



No. 65



No. 63

**EQUIVALENT LENGTHS**

**PLENUM/DUCT FITTINGS**

|           |                          |        |
|-----------|--------------------------|--------|
| No. 23    | Offset starting collar   | 10' EL |
| No. 20    | Straight starting collar | 35' EL |
| No. 120SC | Snap collar, round       | 35' EL |

**ROUND ELBOWS & ANGLES**

|  |            |             |
|--|------------|-------------|
|  | 90° elbows | 30' EL      |
|  | 45° angles | 10 - 20' EL |

**REGISTER BOOTS**

|         |                        |        |
|---------|------------------------|--------|
| No. 24R | 90° register boot      | 30' EL |
| No. 27R | Straight register boot | 5' EL  |
| No. 28R | End register boot      | 50' EL |

**ROUND FITTINGS (TAKEOFFS)**

|         |                             |             |
|---------|-----------------------------|-------------|
| No. 97  | Round starting collar       | 35' EL      |
| No. 63  | Square to round straight    | 15' EL      |
| No. 63A | Square to round elbow       | 40 - 45' EL |
| No. 62  | Square to round elbow       | 40' EL      |
| No. 55  | Round to round (adjustable) | 20 - 25' EL |
| No. 65  | Round to round              | 20 - 25' EL |

**EQUIVALENT LENGTHS**

**DUCT ELBOWS, RADIUS THROAT**

|        |            |        |
|--------|------------|--------|
| No. 14 | Up to 11"  | 10' EL |
|        | 12" to 21" | 15' EL |
|        | 22" to 27" | 20' EL |
|        | 28" to 33" | 25' EL |

**DUCT ELBOWS, SQUARE THROAT**

|        |            |         |
|--------|------------|---------|
| No. 16 | Up to 11"  | 40' EL  |
|        | 12" to 15" | 55' EL  |
|        | 16" to 21" | 75' EL  |
|        | 22" to 27" | 100' EL |
|        | 28" to 33" | 125' EL |

**RETURN AIR SYSTEM**

|         |                             |            |
|---------|-----------------------------|------------|
| No. 810 | Cold air boot, collar, duct | 45- 65' EL |
|---------|-----------------------------|------------|

# Duct Fitting Equivalent Length Calculator

**Ying Liu**



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**Building Technology** Benjamin Stein,1996 The complete guide to building technology This comprehensive guide provides complete coverage of every aspect of the building technologist s profession It details design and installation procedures describes all relevant equipment and hardware and illustrates the preparation of working drawings and construction details that meet project specifications code requirements and industry standards The author establishes procedures for professional field inspections and equipment operations tests provides real world examples from both residential and nonresidential construction projects and makes specific references to code compliance throughout the text This new edition incorporates changes in building codes advances in materials and design techniques and the emergence of computer aided design CAD while retaining the logical structure and helpful special features of the first edition More than 1 100 drawings tables and photographs complement and illustrate discussions in the text Topics covered include Heating ventilating and air conditioning systems equipment and design Plumbing systems equipment and design Electrical and lighting systems equipment and design Testing adjusting and balancing procedures for all building systems Every aspect of the building technologist s profession from the creation of working drawings through on site supervision and systems maintenance Extensive appendices include conversion factors duct design data test report forms for use in field work design forms and schedules for electrical HVAC and plumbing work and more **ASHRAE Journal** ,1980 **Pipe Flow** Donald C. Rennels,Hobart M. Hudson,2012-05-22 Pipe Flow provides the information required to design and analyze the piping systems needed to support a broad range of industrial operations distribution systems and power plants Throughout the book the authors demonstrate how to accurately predict and manage pressure loss while working with a variety of piping systems and piping components The book draws together and reviews the growing body of experimental and theoretical research including important loss coefficient data for a wide selection of piping components Experimental test data and published formulas are examined integrated and organized into broadly applicable equations The results are also presented in straightforward tables and diagrams Sample problems and their solution are provided throughout the book demonstrating how core concepts are applied in practice In addition references and further reading sections enable the readers to explore all the topics in greater depth With its clear explanations Pipe Flow is recommended as a textbook for engineering students and as a reference for professional engineers who need to design operate and troubleshoot piping systems The book employs the English gravitational system as well as the International System or SI **ASHRAE Transactions** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1970 **The Software Catalog** MENU Staff,Menu,1987 **Heating & Air Conditioning Contractor** ,1959 **English Mechanic and Mirror of Science and Art** ,1919 *Handbook of Air Conditioning, Heating, and Ventilating* Eugene Stamper,Richard L. Koral,1979 This comprehensive and acclaimed volume provides a wealth of practical information on the design installation and operation of air conditioning

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