

# Liquidtight Fittings

## Overview

Our liquidtight product line offers high quality, high performance fittings. Designed to the toughest standards and integrating the latest technology, not only do you get a reliable and durable product, you also get one that reduces installation time and cost. Our versatile lines of liquidtight fittings are designed for a wide range of industrial, commercial and residential applications. Choose from our Liquidator™, LiQuik™, zinc die cast, non-metallic or low profile liquidtight fittings.

### Liquidtight Fittings Selection Chart:

|                                                                                     | Family                           | Material             | Size/Range | Configurations                                          | Typical Applications                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------|----------------------|------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|    | <b>Liquidator™</b>               | Malleable Iron       | 3/8" - 6"  | Straight, 45°, 90°                                      | For use with LFMC in tough, industrial, corrosive applications                                |
|    | <b>Liquidator LT SA Aluminum</b> | Copper-free Aluminum | 3/8" - 4"  | Straight (3/8" through 4"), 90° (3/8" through 2")       | Used where aluminum material is preferred in tough, industrial, corrosive applications        |
|    | <b>LTK Low Profile</b>           | Steel/Malleable Iron | 3/8" - 2"  | Straight, 45°, 90°                                      | Used where there are space restrictions in tough, industrial, corrosive applications          |
|    | <b>LTQ LiQuik™</b>               | Malleable Iron       | 3/8" - 2"  | Straight (3/8" through 2"), 45° & 90° (1/2" through 1") | Labor saving, no disassembly, in tough, industrial, corrosive applications                    |
|    | <b>LTDC Zinc Die Cast</b>        | Zinc Die Cast        | 3/8" - 4"  | Straight, 90°                                           | Used where zinc die cast material is preferred in tough, industrial, corrosive applications   |
|  | <b>LTNM Non-metallic</b>         | Nylon                | 3/8" - 2"  | Straight, 90°                                           | Use with non-metallic Type B LT conduit in corrosive, commercial and residential applications |
|  | <b>LT US Product of the USA</b>  | Steel/Malleable Iron | 3/8" - 4"  | Straight, 45°, 90°                                      | When Product of the USA material is specified in tough, industrial, corrosive applications    |
|  | <b>LTS Steel</b>                 | Tubular Steel        | 1/2" - 2"  | Straight Only                                           | For use in cost-competitive applications in light industrial and commercial applications      |
|  | <b>LT SS Stainless Steel</b>     | 304 Stainless Steel  | 1/2" - 2"  | Straight, 90°                                           | Used where corrosion resistance is required in tough, industrial, corrosive applications      |
|  | <b>Space-Saver</b>               | Malleable Iron       | 3/8" - 1"  | Straight Only                                           | Used where space restrictions occur in tough, industrial, corrosive applications              |

Liquidtight

| Product Features                                                         | User Benefits                                                                                                               |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| UL Listed; cUL certified                                                 | Assurance of safe and reliable performance; end-user peace of mind                                                          |
| Provides protection in wet locations                                     | Meets NEC and UL requirements for use in wet locations; reduces downtime and replacement costs                              |
| Available in various configurations in various trade sizes and materials | Complete selection of styles and sizes; easy selection from one source, saves time and money                                |
| Hex surfaces on gland nut and body                                       | Easy wrenching; fast, easy installation results in labor savings                                                            |
| Sealing gasket effectively seals out water, oil, dust and dirt           | Eliminates leakage, potential downtime and replacement costs                                                                |
| Locknut bites into box; won't vibrate loose                              | Provides a reliable ground and safety of personnel and equipment                                                            |
| Cupped long grounding ferrule is distortion-free                         | Provides excellent pull-out strength, prevents conduit pop-out and provides grounding for safety of personnel and equipment |
| Concrete tight                                                           | Provides rugged durability in concrete applications                                                                         |

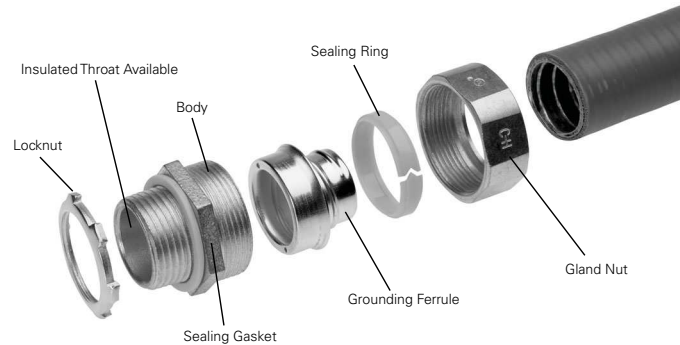
# Liquidtight Fittings

## Overview

### Applications:

Typical applications for liquidtight conduit and liquidtight fittings include the wiring of machine tools, motors, transformers, food processing equipment, robotics, air conditioning units, illuminated storefront signs and billboards, etc. The flexible metallic conduit and fittings protect conductors from mechanical damage due to vibration and movement, and seal out cutting oils, coolants, water, dust, etc. Applications such as these can be found in, but are not limited to, industries such as:

- Machine tool manufacturers
- Electric power generating plants
- Waste treatment facilities
- Paint manufacturing facilities
- Automobile manufacturing facilities
- Aerospace industries
- Breweries
- Food processing plants
- Dairies
- Pulp and paper mills
- Petroleum refineries
- Chemical and petrochemical plants



### Features:

- Liquidtight, raintight, oiltight for protection and long life in wet, dusty and corrosive environments
- Hex shaped gland nut allows for easy wrenching, providing a fast, tight installation
- Suitable for wet locations
- Reusable, long ferrule prevents pull-out and tight bend conduit pop-out
- Furnished with locknut and sealing ring
- Third party certified
- Available in insulated and non-insulated versions to meet any customer preference

### Certifications and Compliances:

- UL Listed liquidtight flexible metal conduit fittings are suitable for use in the following hazardous locations under NEC:
  - Class I, Division 2;
  - Class II, Divisions 1 & 2; and
  - Class III, Divisions 1 & 2;
  - Suitable for grounding in sizes  $\frac{3}{8}$ " through  $1\frac{1}{4}$ " under NEC
- UL Standards 514B, 467
- cUL Standard C22.2 No. 18F
- UL File No. E-19189



# Liquidtight Fittings

## Non-metallic Liquidtight Conduit Fittings

### Applications:

- For use with non-metallic Type B liquidtight conduit to terminate and seal conduit to liquidtight, oiltight or raintight box or enclosure

### Features:

- Liquidtight, raintight, oiltight for protection and long life in wet, dusty and corrosive environments
- Hex shaped gland nut allows for easy wrenching, providing a fast, tight installation
- Suitable for wet locations
- Reusable, long ferrule prevents pull-out and tight bend conduit pop-out
- Furnished with locknut and sealing ring
- Third party certified
- Available in straight and 90 degree configurations
- Available in sizes  $\frac{3}{8}$ " to 2"
- Available in black or gray color

### Certifications and Compliances:

- UL Listed liquidtight flexible metal conduit fittings are suitable for use in the following hazardous locations under NEC:
  - Class I, Division 2;
  - Class II, Divisions 1 & 2; and
  - Class III, Divisions 1 & 2;
  - Suitable for grounding in sizes  $\frac{3}{8}$ " through  $1\frac{1}{4}$ " under NEC
- UL Standards 514B, 467
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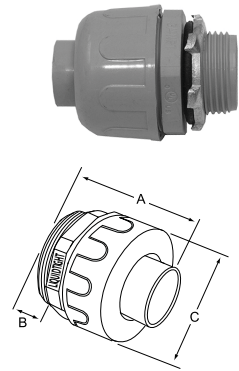
### Standard Materials:

- Body – straight: nylon
- 90°: nylon
- Ferrule – steel
- Gland nut sealing ring – nylon
- Sealing gasket – polypropylene
- Locknut – steel

### Standard Finishes:

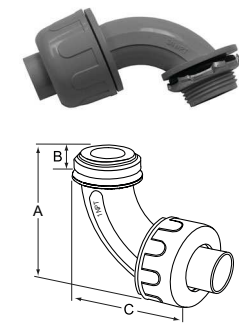
- Nylon – natural
- Steel – natural

### Straight Connectors – Non-metallic



| Trade Size       | Cat. # Gray | Cat. # Black | Unit Qty. | Wt. Lbs. Per 100 | A     | B     | C     |
|------------------|-------------|--------------|-----------|------------------|-------|-------|-------|
| $\frac{3}{8}$ "  | LT38NM      | LT38NMBL     | 25        | 5                | 2.000 | 0.540 | 1.400 |
| $\frac{1}{2}$ "  | LT50NM      | LT50NMBL     | 25        | 5                | 2.000 | 0.540 | 1.400 |
| $\frac{3}{4}$ "  | LT75NM      | LT75NMBL     | 10        | 7                | 2.200 | 0.640 | 1.700 |
| 1"               | LT100NM     | LT100NMBL    | 5         | 14               | 2.280 | 0.740 | 2.000 |
| $1\frac{1}{4}$ " | LT125NM     | LT125NMBL    | 5         | 20               | 2.440 | 0.760 | 2.400 |
| $1\frac{1}{2}$ " | LT150NM     | LT150NMBL    | 2         | 30               | 2.700 | 0.800 | 2.670 |
| 2"               | LT200NM     | LT200NMBL    | 2         | 40               | 2.990 | 0.850 | 3.280 |

### 90° Angle Connectors – Non-metallic



| Trade Size       | Cat. # Gray | Cat. # Black | Unit Qty. | Wt. Lbs. Per 100 | A     | B     | C     |
|------------------|-------------|--------------|-----------|------------------|-------|-------|-------|
| $\frac{3}{8}$ "  | LT3890NM    | LT3890NMBL   | 10        | 5                | 2.120 | 0.540 | 3.120 |
| $\frac{1}{2}$ "  | LT5090NM    | LT5090NMBL   | 10        | 5                | 2.120 | 0.540 | 3.120 |
| $\frac{3}{4}$ "  | LT7590NM    | LT7590NMBL   | 10        | 10               | 2.500 | 0.520 | 3.600 |
| 1"               | LT10090NM   | LT10090NMBL  | 5         | 16               | 3.130 | 0.700 | 4.130 |
| $1\frac{1}{4}$ " | LT12590NM   | LT12590NMBL  | 5         | 28               | 4.450 | 0.760 | 5.200 |
| $1\frac{1}{2}$ " | LT15090NM   | LT15090NMBL  | 2         | 40               | 4.750 | 0.800 | 5.200 |
| 2"               | LT20090NM   | LT20090NMBL  | 2         | 50               | 5.420 | 0.860 | 5.800 |

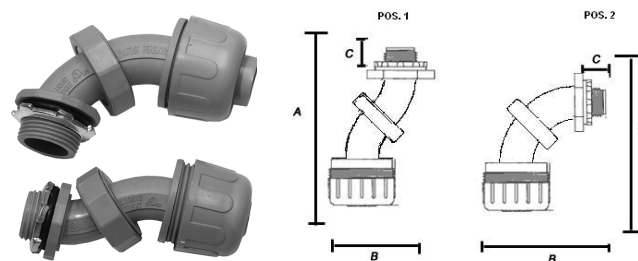
# Liquidtight Fittings

## Non-metallic Liquidtight Conduit Fittings

### MULTI-ANGLE CONNECTORS

#### Features:

- Swivel design can change from a 0 degree to a 90 degree angle
- No disassembly required
- Eliminate inventory by using the swivel design as a straight or 90 degree connector

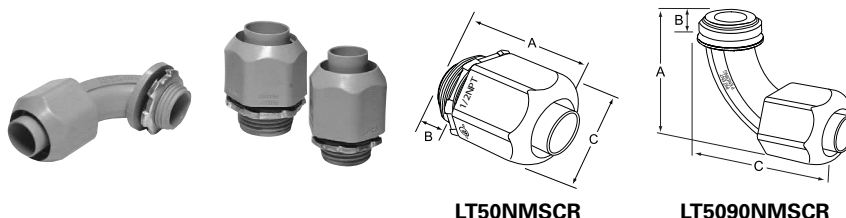


| Cat. #    | Trade Size | Unit Qty. | Certification | Wt. Lbs. Per 100 | A                                   | B                                   | C                                   |
|-----------|------------|-----------|---------------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| LT50U90NM | 1/2"       | 10        | cULus         | 10               | Pos. 1 = 3.350"/<br>Pos. 2 = 3.025" | Pos. 1 = 2.150"/<br>Pos. 2 = 2.395" | Pos. 1 = 0.500"/<br>Pos. 2 = 0.500" |
| LT75U90NM | 3/4"       | 10        | cULus         | 15               | Pos. 1 = 4.300"/<br>Pos. 2 = 3.850" | Pos. 1 = 2.650"/<br>Pos. 2 = 3.350" | Pos. 1 = 0.520"/<br>Pos. 2 = 0.520" |

### SCREW-ON CONNECTORS

#### Features:

- Unique one-piece design
- Design allows for excellent liquidtight seal and optimum pull strength without compression nut



| Cat. #                            | Trade Size | Unit Qty. | Wt. Lbs. Per 100 | A      | B      | C      |
|-----------------------------------|------------|-----------|------------------|--------|--------|--------|
| <b>Straight Connectors</b>        |            |           |                  |        |        |        |
| LT50NMSCR                         | 1/2"       | 25        | 5                | 1.750" | 0.500" | 1.250" |
| LT75NMSCR                         | 3/4"       | 25        | 7                | 1.800" | 0.625" | 1.500" |
| <b>90 Degree Angle Connectors</b> |            |           |                  |        |        |        |
| LT5090NMSCR                       | 1/2"       | 10        | 7                | 1.875" | 0.500" | 3.125" |
| LT7590NMSCR                       | 3/4"       | 10        | 9                | 2.375" | 0.625" | 3.500" |

### LIQUIDTIGHT WHIPS

#### Features:

- Available in 1/2" and 3/4" conduit sizes
- 4 ft. and 6 ft. lengths
- Easy installation
- Assembled with all UL components
- Resists corrosion, oil and water
- 1/2" filled with three #10 AWG THHN copper stranded wires
- 3/4" filled with one #10 AWG THHN copper stranded wire and two #8 AWG THHN copper stranded wires



LTWHP50NM4

| Cat. #       | Trade Size | Unit Qty. | Wt. Lbs. Per 100 |
|--------------|------------|-----------|------------------|
| <b>4 ft.</b> |            |           |                  |
| LTWHP50NM4   | 1/2"       | 24        | 138              |
| LTWHP75NM4   | 3/4"       | 24        | 188              |
| <b>6 ft.</b> |            |           |                  |
| LTWHP50NM6   | 1/2"       | 24        | 196              |
| LTWHP75NM6   | 3/4"       | 12        | 267              |

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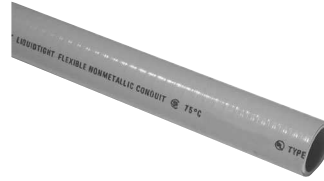
### UL TYPE B FLEXIBLE, NON-METALLIC LIQUIDTIGHT CONDUIT

#### Applications:

- For use with non-metallic liquidtight fittings to terminate and seal conduit to liquidtight, oiltight or raintight box or enclosure
- Typical applications include wiring motors, transformers, processing equipment, pumps, etc.

#### Features:

- Resists abrasion, oil, water, acid and metal shavings
- Smooth inside for easier wire pulling; no hazardous sharp edges or burrs; will not damage conductors
- Corrosion-resistant for tough environmental conditions
- Suitable for wet locations
- Quick installation; cuts with utility knife or PVC cutter
- 90° has smooth interior to prevent abrasion of conductors
- Rated for 80°C dry; 60°C wet; 70°C oil-resistant



LTCOND38NM100 - GRAY



LTCOND38NMBL100 - BLACK

#### Standard Material:

- Integral rigid and flexible PVC construction

#### Certifications and Compliances:

- UL Listed
- CSA certified



| Cat. #<br>Type B 80°C Dry 60°C<br>Wet 70°C - Gray | Cat. #<br>Type B 105°C Dry 60°C<br>Wet 70°C - Black | Trade<br>Size | Wt. Lbs.<br>Per 100 Ft. | Coil/<br>Reel Size | O.D.<br>Min. - Max. | I.D.<br>Min. - Max. |
|---------------------------------------------------|-----------------------------------------------------|---------------|-------------------------|--------------------|---------------------|---------------------|
| LTCOND38NM100                                     | LTCOND38NMBL100                                     | 3/8"          | 13                      | 100 ft.            | 0.690 - 0.710"      | 0.484 - 0.504"      |
| LTCOND50NM100                                     | LTCOND50NMBL100                                     | 1/2"          | 15                      | 100 ft.            | 0.820 - 0.840"      | 0.622 - 0.642"      |
| LTCOND75NM100                                     | LTCOND75NMBL100                                     | 3/4"          | 20                      | 100 ft.            | 1.030 - 1.050"      | 0.820 - 0.840"      |
| LTCOND100NM100                                    | LTCOND100NMBL100                                    | 1"            | 27                      | 100 ft.            | 1.290 - 1.315"      | 1.041 - 1.066"      |
| LTCOND125NM100                                    | LTCOND125NMBL100                                    | 1 1/4"        | 35                      | 100 ft.            | 1.630 - 1.660"      | 1.380 - 1.410"      |
| LTCOND150NM50                                     | LTCOND150NMBL50                                     | 1 1/2"        | 46                      | 50 ft.             | 1.865 - 1.900"      | 1.575 - 1.600"      |
| LTCOND200NM50                                     | LTCOND200NMBL50                                     | 2"            | 66                      | 50 ft.             | 2.340 - 2.375"      | 2.020 - 2.045"      |
| LTCOND38NM1200                                    |                                                     | 3/8"          | 14                      | 1200 ft.           | 0.690 - 0.710"      | 0.484 - 0.504"      |
| LTCOND50NM1000                                    |                                                     | 1/2"          | 17                      | 1000 ft.           | 0.820 - 0.840"      | 0.622 - 0.642"      |
| LTCOND75NM800                                     |                                                     | 3/4"          | 22                      | 800 ft.            | 1.030 - 1.050"      | 0.820 - 0.840"      |
| LTCOND100NM500                                    |                                                     | 1"            | 30                      | 500 ft.            | 1.290 - 1.315"      | 1.041 - 1.066"      |

### NON-METALLIC LIQUIDTIGHT ELECTRICAL TUBING

#### Features:

- Quick installation; cuts with utility knife or PVC cutter
- Suitable for use in high vibration or flexing applications
- Resists corrosion, oil and water
- Maximum flexibility; can be used in extremely tight areas
- Resists abuse, pulling and crushing



ET25NM100

#### Certifications and Compliances:

- UL Listed
- CSA certified



| Cat. #     | Trade<br>Size | Wt. Lbs.<br>Per 100 Ft. | Coil/<br>Reel Size | O.D.<br>Min. - Max. | I.D.<br>Min. - Max. |
|------------|---------------|-------------------------|--------------------|---------------------|---------------------|
| ET25NM100* | 1/4"          | 8                       | 100 ft.            | 0.560 - 0.575"      | 0.385 - 0.405"      |
| ET38NM100  | 3/8"          | 9                       | 100 ft.            | 0.690 - 0.710"      | 0.484 - 0.504"      |
| ET50NM100  | 1/2"          | 10                      | 100 ft.            | 0.820 - 0.840"      | 0.622 - 0.642"      |
| ET75NM100  | 3/4"          | 14                      | 100 ft.            | 1.030 - 1.050"      | 0.820 - 0.840"      |
| ET100NM100 | 1"            | 19                      | 100 ft.            | 1.290 - 1.315"      | 1.041 - 1.066"      |
| ET125NM100 | 1 1/4"        | 22                      | 100 ft.            | 1.630 - 1.660"      | 1.380 - 1.410"      |
| ET150NM50  | 1 1/2"        | 28                      | 50 ft.             | 1.865 - 1.900"      | 1.575 - 1.600"      |
| ET200NM50  | 2"            | 42                      | 50 ft.             | 2.340 - 2.375"      | 2.020 - 2.045"      |

\*Not CSA certified.