

# Liquidtight STN Insulated Connectors for Liquidtight Flexible Metal Conduit

Straight and 90° for Liquidtight Flexible Metal Conduit Connections to Sheet Metal Enclosures.

**NEC/CEC — Suitable for use in the following Hazardous Locations:**

Class I, Division 2 per NEC 501.10(B)(4)  
Class I, Zone 2 per NEC 505.15(C)(2)  
Class II, Division 1 per NEC 502.10(A)(2)(2)  
Class II, Division 2 per NEC 502.10(B)(2)

**NEC/CEC — Suitable for use in the following Hazardous Locations:**

Class III, Division 1 per NEC 503.10(A)(3)(2)  
Class III, Division 2 per NEC 503.10(B)  
Intrinsically Safe per NEC 504.20

## Applications

- For use with liquidtight flexible metal conduit in sheet metal enclosure installations.

## Features

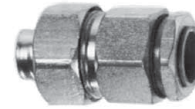
- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements.
- Ferrule provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Flame resistant, insulating insert recessed into hex-head wedge adapter protects against wire damage, without reduction in throat diameter.
- Space-saving hex-hub wedge adapter fits nearly flush against inside walls of enclosures, providing maximum wiring room.
- Liquidtight/raintight/oiltight/concretetight.
- Suitable for wet locations.

## Standard Material/Finish

- 3/8" thru 1" straight: steel
- 1-1/4" thru 4" straight and 3/8" thru 1" 90°: malleable iron
- 3/8" thru 1" ferrule: steel; 1-1/4" thru 4" ferrule: aluminum
- Steel: zinc electroplate
- Malleable iron: zinc electroplate, chromate and epoxy powder coat/zinc electroplate

## NEC/CEC Compliances and Certification

- UL Standard: 514B
- UL Listed: E-11853
- CSA Standard: C22.2 No. 18.3
- CSA Certified: 065178
- NEMA: FB-1

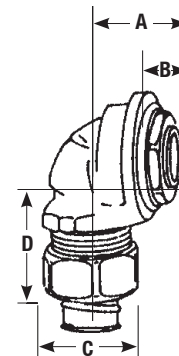
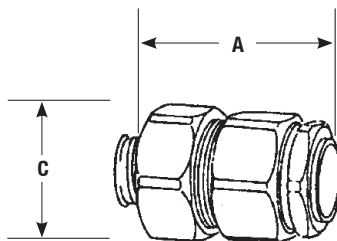


STN-38

## STD Conduit Thread Size

| Flexible Conduit Size (Inches) | NPT Size |
|--------------------------------|----------|
| 3/8                            | 1/2      |
| 1/2                            | 1/2      |
| 3/4                            | 3/4      |
| 1                              | 1        |
| 1-1/4                          | 1-1/4    |
| 1-1/2                          | 1-1/2    |
| 2                              | 2        |
| 2-1/2                          | 2-1/2    |
| 3                              | 3        |
| 4                              | 4        |

## Illustrated Dimensions

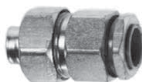
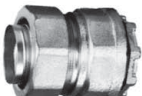


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| Millimeters (Inches)                                                                |                 |                |                 |                |                 |                |                |            |                           |                   |          |
|-------------------------------------------------------------------------------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|----------------|------------|---------------------------|-------------------|----------|
| Size<br>(Inches)                                                                    | Dimensions      |                |                 |                | Hole Diameter   |                | Wall Thickness |            | Weight per 100<br>kg (lb) | Catalog<br>Number |          |
|                                                                                     | A               | B              | C               | D              | Min.            | Max            | Min.           | Max        |                           |                   |          |
| Straight                                                                            |                 |                |                 |                |                 |                |                |            |                           |                   |          |
|    | 3/8             | 35.6<br>(1.44) | —               | 28.7<br>(1.13) | —               | 22.4<br>(0.88) | 23.9 (0.94)    | 1.5 (0.06) | 2.0 (0.08)                | 8.16 (18.00)      | STN-38   |
|                                                                                     |                 |                |                 |                |                 |                | 24.6 (0.97)    | 2.3 (0.09) | 6.4 (0.25)                |                   |          |
|                                                                                     | 1/2             | 35.6<br>(1.44) | —               | 31.8<br>(1.25) | —               | 22.4<br>(0.88) | 23.9 (0.94)    | 1.5 (0.06) | 2.0 (0.08)                | 9.07 (20.00)      | STN-50   |
|                                                                                     |                 |                |                 |                |                 |                | 24.6 (0.97)    | 2.3 (0.09) | 6.4 (0.25)                |                   |          |
| 3/4                                                                                 | 39.6<br>(1.56)  | —              | 38.1<br>(1.50)  | —              | 27.7<br>(1.09)  | 29.5 (1.16)    | 1.5 (0.06)     | 2.0 (0.08) | 13.61 (30.00)             | STN-75            |          |
|                                                                                     |                 |                |                 |                |                 | 31.0 (1.22)    | 2.3 (0.09)     | 6.4 (0.25) |                           |                   |          |
| 1                                                                                   | 44.5<br>(1.75)  | —              | 45.9<br>(1.81)  | —              | 34.0<br>(1.34)  | 35.8 (1.41)    | 1.5 (0.06)     | 2.0 (0.08) | 18.51 (40.80)             | STN-100           |          |
|                                                                                     |                 |                |                 |                |                 | 37.3 (1.47)    | 2.3 (0.09)     | 6.4 (0.25) |                           |                   |          |
| Straight                                                                            |                 |                |                 |                |                 |                |                |            |                           |                   |          |
|  | 1-1/4           | 66.8<br>(2.63) | —               | 58.7<br>(2.31) | —               | 42.9<br>(1.69) | 45.2 (1.78)    | 1.5 (0.06) | 2.0 (0.08)                | 56.70 (125.00)    | STN-125  |
|                                                                                     |                 |                |                 |                |                 |                | 46.7 (1.84)    | 2.3 (0.09) | 7.9 (0.31)                |                   |          |
|                                                                                     | 1-1/2           | 66.8<br>(2.63) | —               | 66.8<br>(2.63) | —               | 49.3<br>(1.94) | 51.6 (2.03)    | 1.5 (0.06) | 2.0 (0.08)                | 83.46 (184.00)    | STN-150  |
|                                                                                     |                 |                |                 |                |                 |                | 53.1 (2.09)    | 2.3 (0.09) | 7.9 (0.31)                |                   |          |
|                                                                                     | 2               | 74.7<br>(2.94) | —               | 81.0<br>(3.19) | —               | 60.7<br>(2.39) | 64.3 (2.53)    | 1.5 (0.06) | 2.0 (0.08)                | 127.01 (280.00)   | STN-200  |
|                                                                                     |                 |                |                 |                |                 |                | 65.8 (2.59)    | 2.3 (0.09) | 7.9 (0.31)                |                   |          |
| 2-1/2                                                                               | 92.2<br>(3.63)  | —              | 100.1<br>(3.94) | —              | 73.4<br>(2.89)  | 76.7 (3.02)    | 2.3 (0.09)     | 7.9 (0.31) | 230.88 (509.00)           | STN-250           |          |
| 3                                                                                   | 81.0<br>(3.19)  | —              | 111.3<br>(4.38) | —              | 89.4<br>(3.52)  | 92.5 (3.64)    | 2.3 (0.09)     | 7.9 (0.31) | 303.45 (669.00)           | STN-300           |          |
| 4                                                                                   | 106.4<br>(4.19) | —              | 139.7<br>(5.50) | —              | 114.8<br>(4.52) | 117.6 (4.63)   | 2.3 (0.09)     | 7.9 (0.31) | 390.09 (860.00)           | STN-400           |          |
| 90°                                                                                 |                 |                |                 |                |                 |                |                |            |                           |                   |          |
|   | 3/8             | 21.3<br>(0.84) | 11.2<br>(0.44)  | 28.7<br>(1.13) | 38.1<br>(1.50)  | 22.4<br>(0.88) | 23.9 (0.94)    | 1.5 (0.06) | 2.0 (0.08)                | 9.53 (21.00)      | STN-9038 |
|                                                                                     |                 |                |                 |                |                 |                | 24.6 (0.97)    | 2.3 (0.09) | 6.4 (0.25)                |                   |          |
|                                                                                     | 1/2             | 21.3<br>(0.84) | 11.2<br>(0.44)  | 31.8<br>(1.25) | 38.1<br>(1.50)  | 22.4<br>(0.88) | 23.9 (0.94)    | 1.5 (0.06) | 2.0 (0.08)                | 13.61 (30.00)     | STN-9050 |
|                                                                                     |                 |                |                 |                |                 |                | 24.6 (0.97)    | 2.3 (0.09) | 6.4 (0.25)                |                   |          |
| 3/4                                                                                 | 23.9<br>(0.94)  | 12.7<br>(0.5)  | 38.1<br>(1.50)  | 42.9<br>(1.69) | 27.7<br>(1.09)  | 29.5 (1.16)    | 1.5 (0.06)     | 2.0 (0.08) | 16.33 (36.00)             | STN-9075          |          |
|                                                                                     |                 |                |                 |                |                 | 31.0 (1.22)    | 2.3 (0.09)     | 6.4 (0.25) |                           |                   |          |
| 1                                                                                   | 27.9<br>(1.10)  | 17.5<br>(0.69) | 45.9<br>(1.81)  | 47.8<br>(1.88) | 34.0<br>(1.34)  | 35.8 (1.41)    | 1.5 (0.06)     | 2.0 (0.08) | 36.29 (80.00)             | STN-90100         |          |
|                                                                                     |                 |                |                 |                |                 | 37.3 (1.47)    | 2.3 (0.09)     | 6.4 (0.25) |                           |                   |          |