

# UNY, UNF, and UNL Unions

## Explosionproof, Dust-Ignitionproof

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

Class I, Division 1 and 2 Groups A, B, C, D  
Class II, Division 1 and 2 Groups E, F, G  
Class III

Fittings

FITTINGS: HAZARDOUS CONDUIT FITTINGS

### Applications

- UNY and UNF unions are used for joining conduit and connecting conduit to enclosures. Facilitates modifications, permits removal of enclosures without turning or removal of conduit.
- Expansion unions compensate for expansion and contraction of conduit.

### Features

- Explosionproof, dust-ignitionproof.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- Accurately tapped, tapered threads for tight, rigid joints and ground continuity.
- Non-expansion unions
  - Concentric ring interlocked design of 1/2", 3/4" and 1" sizes makes possible smaller diameter, allowing use in tighter spaces. 1-1/4" and larger UNY sizes have removable male nipple.
- Expansion unions
  - One-piece design eliminates need for disassembly during installation.
  - Telescoping cylinder within cylinder design permits expansion or contraction.
  - Standard or long types available.
  - Small external diameters—excellent in restricted areas in wiring of pumps, motors, and other equipment.
  - Internal phosphor bronze "bonding jumper" ring assures positive ground between telescoping cylinders.

### Standard Materials

- UNY and UNF (non-expansion) unions:
  - 1/2" thru 1": steel or aluminum
  - 1-1/4" thru 6": malleable iron or copperfree (4/10 of 1% max.) aluminum
- UNY and UNF expansion unions: steel
- UNL unions: malleable iron and steel

### Standard Finishes

- Malleable iron products: triplecoat — (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Steel products: zinc electroplate
- Aluminum products 1/2" thru 4": natural

### Certifications and Compliances

- UL Standard: 886 (1203)
- UL Listed: E10444
- CSA Standard: C22.2 No. 25, C22.2 No. 30
- CSA Certified: 065181

### Options

- PVC coating available on select unions. Add suffix **-PVC** to catalog number.
- Stainless steel UNF/UNY available 1/2", 3/4", and 1". Replace suffixes NR or NR-A with SS.



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Class I, Division 1 and 2 Groups A◇, B◆, C, D  
 Class II, Division 1 and 2 Groups E, F, G  
 Class III

| Size<br>(Inches) | Inches/Millimeters |   | Catalog Number                                     |                          |
|------------------|--------------------|---|--|--------------------------|
|                  | A                  | B | Steel (1/2" to 1")<br>and Malleable (1-1/4" to 6") | Aluminum<br>(1/2" to 4") |

### UNY Unions — For connecting conduit to enclosure

| Size (Inches) | Inches/Millimeters                  | Male/Female (Nipple Not Removable) |            | Steel (1/2" to 1")<br>and Malleable (1-1/4" to 6") | Aluminum<br>(1/2" to 4") |
|---------------|-------------------------------------|------------------------------------|------------|--|--------------------------|
|               |                                     | A                                  | B          |  |                          |
| 1/2" — 1"     | Male/Female (Nipple Not Removable)  | 1/2                                | 2.147/54.4 | 1.47/37.3  | UNY50NR ◇ †              |
|               |                                     | 3/4-1/2                            | 2.16/54.8  | 1.47/37.3  | UNY75-50NR ◇             |
|               |                                     | 3/4                                | 2.16/54.8  | 1.75/44.5  | UNY75NR ◇ †              |
|               |                                     | 1                                  | 2.62/66.7  | 2.00/50.8  | UNY100NR ◇ †             |
| 1-1/4" — 4"   | Male/Female (Removable Male Nipple) | 1-1/4                              | 3.13/79.4  | 2.81/71.4  | UNY125NR ◆ †             |
|               |                                     | 1-1/2                              | 3.25/82.6  | 3.06/77.8  | UNY150NR ◆ †             |
|               |                                     | 2                                  | 3.63/92.1  | 3.72/94.5  | UNY200NR ◆ †             |
|               |                                     | 2-1/2                              | 4.81/122.2 | 4.88/123.8   | UNY250R ◆ †              |
|               |                                     | 3                                  | 4.81/122.2 | 5.38/136.5   | UNY300R ◆ †              |
|               |                                     | 3-1/2                              | 4.94/125.4 | 5.88/149.2   | UNY350R ◆ †              |
| 5" — 6"       |                                     | 4                                  | 5.13/130.2 | 6.44/163.5   | UNY400R ◆ †              |
|               |                                     | 5                                  | 5.63/142.9 | 8.33/212.7   | UNY500R †                |
|               |                                     | 6                                  | 5.75/146.1 | 9.63/244.5   | UNY600R †                |
|               |                                     |                                    |            |  | —                        |

### UNF Female Unions — For connecting conduit to conduit

| Size (Inches) | Inches/Millimeters | Male/Female (Nipple Not Removable) |            | Steel (1/2" to 1")<br>and Malleable (1-1/4" to 6") | Aluminum<br>(1/2" to 4") |
|---------------|--------------------|------------------------------------|------------|--|--------------------------|
|               |                    | A                                  | B          |  |                          |
| 1/2" — 1"     |                    | 1/2                                | 1.47/37.3  | 1.47/37.3  | UNF50NR ◇ †              |
|               |                    | 3/4-1/2 †                          | 1.47/37.3  | 1.47/37.3  | UNF75-50NR ◇             |
|               |                    | 3/4                                | 1.47/37.3  | 1.75/44.5  | UNF75NR ◇ †              |
|               |                    | 1                                  | 1.72/43.7  | 2.00/50.8  | UNF100NR ◇ †             |
| 1-1/4" — 4"   |                    | 1-1/4                              | 2.19/55.6  | 2.81/71.4  | UNF125NR ◆ †             |
|               |                    | 1-1/2                              | 2.19/55.6  | 3.06/77.8  | UNF150NR ◆ †             |
|               |                    | 2                                  | 2.31/58.7  | 3.72/94.5  | UNF200NR ◆ †             |
|               |                    | 2-1/2                              | 3.38/85.7  | 4.88/123.8   | UNF250R ◆ †              |
|               |                    | 3                                  | 3.38/85.7  | 5.38/136.5   | UNF300R ◆ †              |
|               |                    | 3-1/2                              | 3.38/85.7  | 5.88/149.2   | UNF350R ◆ †              |
| 5" — 6"       |                    | 4                                  | 3.50/88.9  | 6.44/163.5   | UNF400R ◆ †              |
|               |                    | 5                                  | 3.88/98.4  | 8.38/212.7   | UNF500R †                |
|               |                    | 6                                  | 4.00/101.6 | 9.63/244.5   | UNF600R †                |
|               |                    |                                    |            |  | —                        |

### Dimensions

| Size (Inches) | Inches/Millimeters |        |       | Catalog Number<br>Malleable |
|---------------|--------------------|--------|-------|-----------------------------|
|               | Male               | Female | A B C |                             |

### UNL 90° Elbow Unions — For connecting conduit to enclosure

| Size (Inches) | Inches/Millimeters |        |           | Catalog Number<br>Malleable |           |             |
|---------------|--------------------|--------|-----------|-----------------------------|-----------|-------------|
|               | Male               | Female | A B C     |                             |           |             |
| 1/2           | 1/2                | 1/2    | 2.47/62.7 | 1.38/35.1                   | 2.06/52.3 | UNL50N ◇    |
|               | 1/2                | 3/4 †  | 2.47/62.7 | 1.63/41.4                   | 2.06/52.3 | UNL50-75N ◇ |
|               | 3/4                | 1/2 †  | 2.00/50.8 | 1.38/35.1                   | 1.88/47.6 | UNL75-50N ◇ |
|               | 3/4                | 3/4    | 2.00/50.8 | 1.63/41.4                   | 1.88/47.6 | UNL75N ◇    |

† Male end given first

‡ PVC coating available on select unions. Add suffix **-PVC** to catalog number.

◇ Indicates items in the shaded area which are UL Listed for Class I, Groups A, B, C, D; Class II, Groups E, F, G; and Class III.

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# UNY and UNF Expansion Unions

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Class II, Division 1 and 2 Groups E, F, G  
Class III

Fittings

FITTINGS: HAZARDOUS CONDUIT FITTINGS

|  | Size (Inches)  | Catalog Number<br>Steel |
|--|--|-------------------------|
|   | <b>UNY Male Unions— Standard — For connecting conduit to enclosure</b> |                         |
|  | 1/2  | UNY50                   |
|  | 3/4  | UNY75                   |
|  | 1  | UNY100                  |
|   | <b>UNYL Male Unions— Long — For connecting conduit to enclosure</b>    |                         |
|  | 1/2  | UNYL50                  |
|  | 3/4  | UNYL75                  |
|  | 1  | UNYL100                 |
|   | <b>UNF Female Unions— Standard — For connecting conduit to conduit</b> |                         |
|  | 1/2  | UNF50                   |
|  | 3/4  | UNF75                   |
|  | 1  | UNF100                  |
|  | <b>UNFL Female Unions— Long — For connecting conduit to conduit</b>    |                         |
|  | 1/2  | UNFL50                  |
|  | 3/4  | UNFL75                  |
|  | 1  | UNFL100                 |

### Dimensions

| Catalog Number | Size<br>(Inches) | Inches/Millimeters |   |            |                          |
|----------------|------------------|--------------------|---|------------|--------------------------|
|                |                  | A                  | B (Overall Length<br>at Max. Expansion) | C          | D<br>(Maximum Expansion) |
| UNY50          | 1/2              | 1.19/30.2          | 3.88/78.9                               | 2.31/58.7  | 0.50/12.7                |
| UNY75          | 3/4              | 1.44/36.5          | 3.28/83.3                               | 2.44/61.9  | 0.53/13.5                |
| UNY100         | 1                | 1.75/44.5          | 3.67/93.2                               | 2.69/68.3  | 0.66/16.7                |
| UNYL50         | 1/2              | 1.19/30.2          | 4.11/104.4                              | 3.31/84.1  | 1.00/25.4                |
| UNYL75         | 3/4              | 1.44/36.5          | 4.28/108.7                              | 3.44/87.3  | 1.09/27.8                |
| UNYL100        | 1                | 1.75/44.5          | 4.98/126.5                              | 4.00/101.6 | 1.34/34.1                |
| UNF50          | 1/2              | 1.19/30.2          | 2.94/74.6                               | —          | 0.50/12.7                |
| UNF75          | 3/4              | 1.44/36.5          | 3.06/77.8                               | —          | 0.53/13.5                |
| UNF100         | 1                | 1.75/44.5          | 3.38/85.7                               | —          | 0.66/16.7                |
| UNFL50         | 1/2              | 1.19/30.2          | 3.94/100.0                              | —          | 1.00/25.4                |
| UNFL75         | 3/4              | 1.44/36.5          | 4.13/104.8                              | —          | 1.09/27.8                |
| UNFL100        | 1                | 1.75/44.5          | 4.75/120.7                              | —          | 1.34/34.1                |

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  - Standard or long types available.
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- Malleable iron products: triplecoat — (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
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Class III

| Size<br>(Inches) | Inches/Millimeters |   | Catalog Number                                     |                          |
|------------------|--------------------|---|--|--------------------------|
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### UNY Unions — For connecting conduit to enclosure

| Size<br>(Inches) | Inches/Millimeters<br>A | Inches/Millimeters<br>B | Male/Female (Nipple Not Removable)                 |                          |
|------------------|-------------------------|-------------------------|--|--------------------------|
|                  |                         |                         | Steel (1/2" to 1")<br>and Malleable (1-1/4" to 6") | Aluminum<br>(1/2" to 4") |
| 1/2" — 1"        | 1/2                     | 1.47/37.3               | UNY50NR ◇ †  | UNY50NR-A ◇ †            |
|                  |                         |                         | UNY75-50NR ◇                                       | UNY75-50NR-A ◇           |
|                  |                         |                         | UNY75NR ◇ †  | UNY75NR-A ◇ †            |
|                  |                         |                         | UNY100NR ◇ †                                       | UNY100NR-A ◇ †           |
| 1-1/4" — 4"      | 1-1/4                   | 2.81/71.4               | UNY125NR ◆ †                                       | UNY125NR-A ◆ †           |
|                  |                         |                         | UNY150NR ◆ †                                       | UNY150NR-A ◆ †           |
|                  |                         |                         | UNY200NR ◆ †                                       | UNY200NR-A ◆ †           |
|                  |                         |                         | UNY250R ◆ †  | UNY250R-A ◆ †            |
|                  |                         |                         | UNY300R ◆ †  | UNY300R-A ◆ †            |
|                  |                         |                         | UNY350R ◆ †  | UNY350R-A ◆ †            |
| 5" — 6"          | 5                       | 8.33/212.7              | UNY400R ◆ †  | UNY400R-A ◆ †            |
|                  |                         |                         | UNY500R †  | —                        |
|                  |                         |                         | UNY600R †  | —                        |

### UNF Female Unions — For connecting conduit to conduit

| Size<br>(Inches) | Inches/Millimeters<br>A | Inches/Millimeters<br>B | Male/Female (Nipple Not Removable)                 |                          |
|------------------|-------------------------|-------------------------|--|--------------------------|
|                  |                         |                         | Steel (1/2" to 1")<br>and Malleable (1-1/4" to 6") | Aluminum<br>(1/2" to 4") |
| 1/2" — 1"        | 1/2                     | 1.47/37.3               | UNF50NR ◇ †  | UNF50NR-A ◇ †            |
|                  |                         |                         | UNF75-50NR ◇                                       | UNF75-50NR-A ◇           |
|                  |                         |                         | UNF75NR ◇ †  | UNF75NR-A ◇ †            |
|                  |                         |                         | UNF100NR ◇ †                                       | UNF100NR-A ◇ †           |
| 1-1/4" — 4"      | 1-1/4                   | 2.81/71.4               | UNF125NR ◆ †                                       | UNF125NR-A ◆ †           |
|                  |                         |                         | UNF150NR ◆ †                                       | UNF150NR-A ◆ †           |
|                  |                         |                         | UNF200NR ◆ †                                       | UNF200NR-A ◆ †           |
|                  |                         |                         | UNF250R ◆ †  | UNF250R-A ◆ †            |
|                  |                         |                         | UNF300R ◆ †  | UNF300R-A ◆ †            |
|                  |                         |                         | UNF350R ◆ †  | UNF350R-A ◆ †            |
| 5" — 6"          | 5                       | 8.33/212.7              | UNF400R ◆ †  | UNF400R-A ◆ †            |
|                  |                         |                         | UNF500R †  | —                        |
|                  |                         |                         | UNF600R †  | —                        |

### Dimensions

| Size (Inches) | Inches/Millimeters |        |   | Catalog Number<br>Malleable |
|---------------|--------------------|--------|---|-----------------------------|
|               | Male               | Female | C |                             |

### UNL 90° Elbow Unions — For connecting conduit to enclosure

| Size (Inches) | Inches/Millimeters |           |           | Catalog Number<br>Malleable |             |
|---------------|--------------------|-----------|-----------|-----------------------------|-------------|
|               | Male               | Female    | C         |                             |             |
| 1/2           | 1/2                | 2.47/62.7 | 1.38/35.1 | 2.06/52.3                   | UNL50N ◇    |
|               |                    |           |           |                             | UNL50-75N ◇ |
|               |                    |           |           |                             | UNL75-50N ◇ |
|               |                    |           |           |                             | UNL75N ◇    |

† Male end given first

‡ PVC coating available on select unions. Add suffix **-PVC** to catalog number.

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# UNY and UNF Expansion Unions

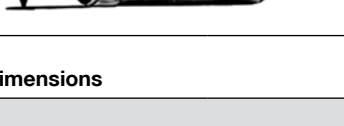
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Fittings

FITTINGS: HAZARDOUS CONDUIT FITTINGS

|   | Size (Inches)  | Catalog Number<br>Steel |
|---|--|-------------------------|
|    | <b>UNY Male Unions— Standard — For connecting conduit to enclosure</b> |                         |
|   | 1/2  | <b>UNY50</b>            |
|   | 3/4  | <b>UNY75</b>            |
|    | 1  | <b>UNY100</b>           |
|   | <b>UNYL Male Unions— Long — For connecting conduit to enclosure</b>    |                         |
|   | 1/2  | <b>UNYL50</b>           |
|    | 3/4  | <b>UNYL75</b>           |
|   | 1  | <b>UNYL100</b>          |
|   | <b>UNF Female Unions— Standard — For connecting conduit to conduit</b> |                         |
|    | 1/2  | <b>UNF50</b>            |
|   | 3/4  | <b>UNF75</b>            |
|   | 1  | <b>UNF100</b>           |
|  | <b>UNFL Female Unions— Long — For connecting conduit to conduit</b>    |                         |
|   | 1/2  | <b>UNFL50</b>           |
|   | 3/4  | <b>UNFL75</b>           |
|   | 1  | <b>UNFL100</b>          |

### Dimensions

| Catalog Number | Size<br>(Inches) | Inches/Millimeters |   |            |                          |
|----------------|------------------|--------------------|---|------------|--------------------------|
|                |                  | A                  | B (Overall Length<br>at Max. Expansion) | C          | D<br>(Maximum Expansion) |
| UNY50          | 1/2              | 1.19/30.2          | 3.88/78.9                               | 2.31/58.7  | 0.50/12.7                |
| UNY75          | 3/4              | 1.44/36.5          | 3.28/83.3                               | 2.44/61.9  | 0.53/13.5                |
| UNY100         | 1                | 1.75/44.5          | 3.67/93.2                               | 2.69/68.3  | 0.66/16.7                |
| UNYL50         | 1/2              | 1.19/30.2          | 4.11/104.4                              | 3.31/84.1  | 1.00/25.4                |
| UNYL75         | 3/4              | 1.44/36.5          | 4.28/108.7                              | 3.44/87.3  | 1.09/27.8                |
| UNYL100        | 1                | 1.75/44.5          | 4.98/126.5                              | 4.00/101.6 | 1.34/34.1                |
| UNF50          | 1/2              | 1.19/30.2          | 2.94/74.6                               | —          | 0.50/12.7                |
| UNF75          | 3/4              | 1.44/36.5          | 3.06/77.8                               | —          | 0.53/13.5                |
| UNF100         | 1                | 1.75/44.5          | 3.38/85.7                               | —          | 0.66/16.7                |
| UNFL50         | 1/2              | 1.19/30.2          | 3.94/100.0                              | —          | 1.00/25.4                |
| UNFL75         | 3/4              | 1.44/36.5          | 4.13/104.8                              | —          | 1.09/27.8                |
| UNFL100        | 1                | 1.75/44.5          | 4.75/120.7                              | —          | 1.34/34.1                |