

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

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

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

UNL 90° Elbow Unions — For connecting conduit to enclosure

| Catalog Number Malleable | Size (Inches) | | Inches/Millimeters | | |
|--------------------------|---------------|--------|--------------------|-----------|-----------|
| | Male | Female | A | B | C |
| UNL50N ◇ | 1/2 | 1/2 | 2.47/62.7 | 1.38/35.1 | 2.06/52.3 |
| | 1/2 | 3/4 † | 2.47/62.7 | 1.63/41.4 | 2.06/52.3 |
| | 3/4 | 1/2 † | 2.00/50.8 | 1.38/35.1 | 1.88/47.6 |
| | 3/4 | 3/4 | 2.00/50.8 | 1.63/41.4 | 1.88/47.6 |

† 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.

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

UNY and UNF Expansion Unions

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

Fittings

FITTINGS: HAZARDOUS CONDUIT FITTINGS

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

Dimensions

| Catalog Number | Size (Inches) | Inches/Millimeters | | | |
|----------------|------------------|--------------------|---|------------|--------------------------|
| | | A | B (Overall Length at Max. Expansion) | C | D (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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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 (Inches) | Inches/Millimeters | | Catalog Number | |
|------------------|--------------------|---|--|--------------------------|
| | A | B | Steel (1/2" to 1") and Malleable (1-1/4" to 6") | Aluminum (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") and Malleable (1-1/4" to 6") | Aluminum (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") and Malleable (1-1/4" to 6") | Aluminum (1/2" to 4") |
|---------------|-------------------------------------|------------------------------------|------------|--|--------------------------|
| | | A | B | | |
| 1/2" — 1" | Male/Female (Nipple Not Removable) | 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" | Male/Female (Removable Male Nipple) | 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 Malleable |
|---------------|--------------------|--------|---|-----------------------------|
| | Male | Female | A | |

UNL 90° Elbow Unions — For connecting conduit to enclosure

| Size (Inches) | Inches/Millimeters | | | Catalog Number 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.

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

UNY and UNF Expansion Unions

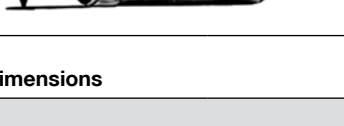
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Class II, Division 1 and 2 Groups E, F, G
Class III

Fittings

FITTINGS: HAZARDOUS CONDUIT FITTINGS

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

Dimensions

| Catalog Number | Size (Inches) | Inches/Millimeters | | | |
|----------------|------------------|--------------------|---|------------|--------------------------|
| | | A | B (Overall Length at Max. Expansion) | C | D (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 |