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.





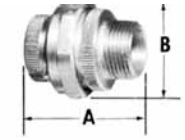
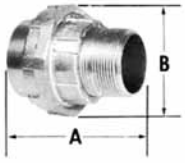
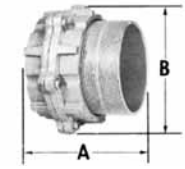
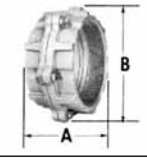
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UNY, UNF, and UNL Unions

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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

	Size (Inches)	Inches/Millimeters A	Inches/Millimeters B	Catalog Number Steel (1/2" to 1") and Malleable (1–1/4" to 6")	Catalog Number Aluminum (1/2" to 4")
UNY Unions — For connecting conduit to enclosure					
 1/2"— 1"	*Male/Female (Nipple Not Removable)*				
	1/2	2.147/54.4	1.47/37.3	**UNY50NR** ◇ ‡	**UNY50NR-A** ◇ ‡
	3/4-1/2	2.16/54.8	1.47/37.3	**UNY75-50NR** ◇	**UNY75-50NR-A** ◇
	3/4	2.16/54.8	1.75/44.5	**UNY75NR** ◇ ‡	**UNY75NR-A** ◇ ‡
	1	2.62/66.7	2.00/50.8	**UNY100NR** ◇ ‡	**UNY100NR-A** ◇ ‡
 1-1/4"— 4"	*Male/Female (Removable Male Nipple)*				
	1-1/4	3.13/79.4	2.81/71.4	**UNY125NR** ◆ ‡	**UNY125NR-A** ◆ ‡
	1-1/2	3.25/82.6	3.06/77.8	**UNY150NR** ◆ ‡	**UNY150NR-A** ◆ ‡
	2	3.63/92.1	3.72/94.5	**UNY200NR** ◆ ‡	**UNY200NR-A** ◆ ‡
	2-1/2	4.81/122.2	4.88/123.8	**UNY250R** ◆ ‡	**UNY250R-A** ◆ ‡
	3	4.81/122.2	5.38/136.5	**UNY300R** ◆ ‡	**UNY300R-A** ◆ ‡
 5"— 6"	3-1/2	4.94/125.4	5.88/149.2	**UNY350R** ◆ ‡	**UNY350R-A** ◆ ‡
	4	5.13/130.2	6.44/163.5	**UNY400R** ◆ ‡	**UNY400R-A** ◆ ‡
	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					
 1/2"—1"	1/2	1.47/37.3	1.47/37.3	**UNF50NR** ◇ ‡	**UNF50NR-A** ◇ ‡
	3/4-1/2 †	1.47/37.3	1.47/37.3	**UNF75-50NR** ◇	**UNF75-50NR-A** ◇
	3/4	1.47/37.3	1.75/44.5	**UNF75NR** ◇ ‡	**UNF75NR-A** ◇ ‡
	1	1.72/43.7	2.00/50.8	**UNF100NR** ◇ ‡	**UNF100NR-A** ◇ ‡
	1-1/4	2.19/55.6	2.81/71.4	**UNF125NR** ◆ ‡	**UNF125NR-A** ◆ ‡
	1-1/2	2.19/55.6	3.06/77.8	**UNF150NR** ◆ ‡	**UNF150NR-A** ◆ ‡
 1-1/4"— 4"	2	2.31/58.7	3.72/94.5	**UNF200NR** ◆ ‡	**UNF200NR-A** ◆ ‡
	2-1/2	3.38/85.7	4.88/123.8	**UNF250R** ◆ ‡	**UNF250R-A** ◆ ‡
	3	3.38/85.7	5.38/136.5	**UNF300R** ◆ ‡	**UNF300R-A** ◆ ‡
	3-1/2	3.38/85.7	5.88/149.2	**UNF350R** ◆ ‡	**UNF350R-A** ◆ ‡
 5"— 6"	4	3.50/88.9	6.44/163.5	**UNF400R** ◆ ‡	**UNF400R-A** ◆ ‡
	5	3.88/98.4	8.38/212.7	**UNF500R** ‡	—
	6	4.00/101.6	9.63/244.5	**UNF600R** ‡	—

Dimensions

	Size (Inches) Male	Size (Inches) Female	Inches/Millimeters A	Inches/Millimeters B	Inches/Millimeters C	Catalog Number Malleable
UNL 90° Elbow Unions — For connecting conduit to enclosure						
	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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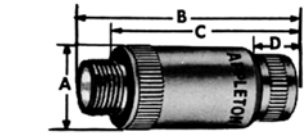
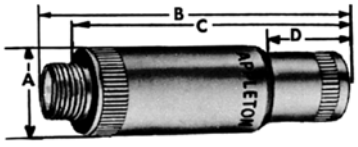
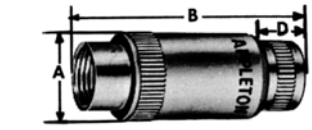
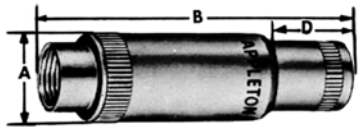
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UNY and UNF Expansion Unions

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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

	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

		Inches/Millimeters			
Catalog Number	Size (Inches)	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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  - — 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.
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  - — 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

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  - — 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.





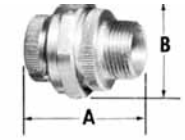
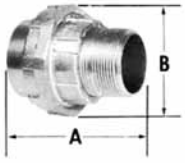
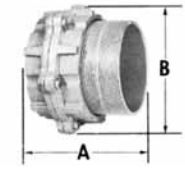
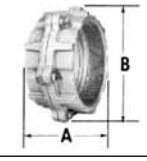
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Class II, Division 1 and 2 Groups E, F, G
Class III

	Size (Inches)	Inches/Millimeters A	Inches/Millimeters B	Catalog Number Steel (1/2" to 1") and Malleable (1–1/4" to 6")	Catalog Number Aluminum (1/2" to 4")
UNY Unions — For connecting conduit to enclosure					
 1/2"— 1"	*Male/Female (Nipple Not Removable)*				
	1/2	2.147/54.4	1.47/37.3	**UNY50NR** ◇ ‡	**UNY50NR-A** ◇ ‡
	3/4-1/2	2.16/54.8	1.47/37.3	**UNY75-50NR** ◇	**UNY75-50NR-A** ◇
	3/4	2.16/54.8	1.75/44.5	**UNY75NR** ◇ ‡	**UNY75NR-A** ◇ ‡
	1	2.62/66.7	2.00/50.8	**UNY100NR** ◇ ‡	**UNY100NR-A** ◇ ‡
 1-1/4"— 4"	*Male/Female (Removable Male Nipple)*				
	1-1/4	3.13/79.4	2.81/71.4	**UNY125NR** ◆ ‡	**UNY125NR-A** ◆ ‡
	1-1/2	3.25/82.6	3.06/77.8	**UNY150NR** ◆ ‡	**UNY150NR-A** ◆ ‡
	2	3.63/92.1	3.72/94.5	**UNY200NR** ◆ ‡	**UNY200NR-A** ◆ ‡
	2-1/2	4.81/122.2	4.88/123.8	**UNY250R** ◆ ‡	**UNY250R-A** ◆ ‡
	3	4.81/122.2	5.38/136.5	**UNY300R** ◆ ‡	**UNY300R-A** ◆ ‡
 5"— 6"	3-1/2	4.94/125.4	5.88/149.2	**UNY350R** ◆ ‡	**UNY350R-A** ◆ ‡
	4	5.13/130.2	6.44/163.5	**UNY400R** ◆ ‡	**UNY400R-A** ◆ ‡
	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					
 1/2"—1"	1/2	1.47/37.3	1.47/37.3	**UNF50NR** ◇ ‡	**UNF50NR-A** ◇ ‡
	3/4-1/2 †	1.47/37.3	1.47/37.3	**UNF75-50NR** ◇	**UNF75-50NR-A** ◇
	3/4	1.47/37.3	1.75/44.5	**UNF75NR** ◇ ‡	**UNF75NR-A** ◇ ‡
	1	1.72/43.7	2.00/50.8	**UNF100NR** ◇ ‡	**UNF100NR-A** ◇ ‡
	1-1/4	2.19/55.6	2.81/71.4	**UNF125NR** ◆ ‡	**UNF125NR-A** ◆ ‡
	1-1/2	2.19/55.6	3.06/77.8	**UNF150NR** ◆ ‡	**UNF150NR-A** ◆ ‡
 1-1/4"— 4"	2	2.31/58.7	3.72/94.5	**UNF200NR** ◆ ‡	**UNF200NR-A** ◆ ‡
	2-1/2	3.38/85.7	4.88/123.8	**UNF250R** ◆ ‡	**UNF250R-A** ◆ ‡
	3	3.38/85.7	5.38/136.5	**UNF300R** ◆ ‡	**UNF300R-A** ◆ ‡
	3-1/2	3.38/85.7	5.88/149.2	**UNF350R** ◆ ‡	**UNF350R-A** ◆ ‡
 5"— 6"	4	3.50/88.9	6.44/163.5	**UNF400R** ◆ ‡	**UNF400R-A** ◆ ‡
	5	3.88/98.4	8.38/212.7	**UNF500R** ‡	—
	6	4.00/101.6	9.63/244.5	**UNF600R** ‡	—

Dimensions

	Size (Inches) Male	Size (Inches) Female	Inches/Millimeters A	Inches/Millimeters B	Inches/Millimeters C	Catalog Number Malleable
UNL 90° Elbow Unions — For connecting conduit to enclosure						
	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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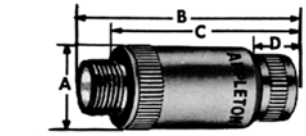
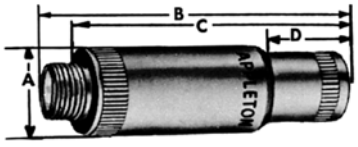
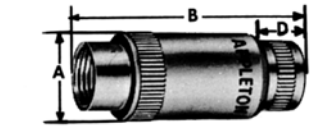
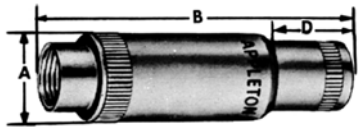
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UNY and UNF Expansion Unions

Explosionproof, Dust-Ignitionproof

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

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

	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

		Inches/Millimeters			
Catalog Number	Size (Inches)	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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