

UNY, UNF, and UNL Unions

Explosionproof, Dust-Ignitionproof

For Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

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.
 - Concretetight
- 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

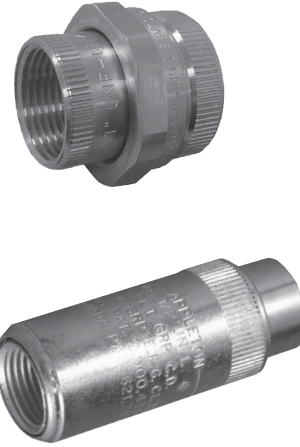
- Malleable iron products: triplecoat — (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Steel products: zinc electroplate
- Aluminum products 1/2" thru 4": natural

Options

- Stainless steel UNF/UNY available 1/2", 3/4", and 1". Add suffix **-SS** to catalog number.

NEC/CEC Certifications and Compliances

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



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

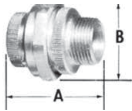
HAZARDOUS LOCATION FITTINGS: NEC/CEC EXPLOSIONPROOF CONDUIT FITTINGS

Appleton

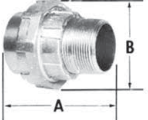
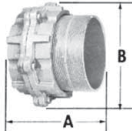
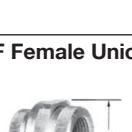
Size (Inches)	Millimeters (Inches)		Steel (1/2" to 1")	Catalog Number	
	A	B		Malleable (1-1/4" to 6")	Aluminum (1/2" to 4")

UNY Unions – For connecting conduit to enclosure

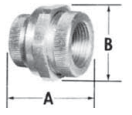
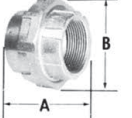
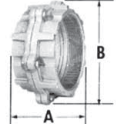
Male/Female (Nipple Not Removable)

	1/2	54.4 (2.15)	37.3 (1.47)	UNY50NR ◇	—	UNY50NR-A ◇
	3/4-1/2	54.8 (2.16)	37.3 (1.47)	UNY75-50NR ◇	—	UNY75-50NR-A ◇
	3/4	54.8 (2.16)	44.5 (1.75)	UNY75NR ◇	—	UNY75NR-A ◇
	1	66.7 (2.62)	50.8 (2.00)	UNY100NR ◇	—	UNY100NR-A ◇

Male/Female (Removable Male Nipple)

	1-1/4	79.4 (3.13)	71.4 (2.81)	—	UNY125NR ◆	UNY125NR-A ◆
	1-1/2	82.6 (3.25)	77.8 (3.06)	—	UNY150NR ◆	UNY150NR-A ◆
	2	92.1 (3.63)	94.5 (3.72)	—	UNY200NR ◆	UNY200NR-A ◆
	2-1/2	122.2 (4.81)	123.8 (4.88)	—	UNY250R ◆	UNY250R-A ◆
	3	122.2 (4.81)	136.5 (5.38)	—	UNY300R ◆	UNY300R-A ◆
	3-1/2	125.4 (4.94)	149.2 (5.88)	—	UNY350R ◆	UNY350R-A ◆
	4	130.2 (5.13)	163.5 (6.44)	—	UNY400R ◆	UNY400R-A ◆
	5	142.9 (5.63)	212.7 (8.33)	—	UNY500R	—
	6	146.1 (5.75)	244.5 (9.63)	—	UNY600R	—

UNF Female Unions – For connecting conduit to conduit


	1/2	37.3 (1.47)	37.3 (1.47)	UNF50NR ◇	—	UNF50NR-A ◇
	3/4-1/2 ①	37.3 (1.47)	37.3 (1.47)	UNF75-50NR ◇	—	UNF75-50NR-A ◇
	3/4	37.3 (1.47)	44.5 (1.75)	UNF75NR ◇	—	UNF75NR-A ◇
	1	43.7 (1.72)	50.8 (2.00)	UNF100NR ◇	—	UNF100NR-A ◇
	1-1/4	55.6 (2.19)	71.4 (2.81)	—	UNF125NR ◆	UNF125NR-A ◆
	1-1/2	55.6 (2.19)	77.8 (3.06)	—	UNF150NR ◆	UNF150NR-A ◆
	2	58.7 (2.31)	94.5 (3.72)	—	UNF200NR ◆	UNF200NR-A ◆
	2-1/2	85.7 (3.38)	123.8 (4.88)	—	UNF250R ◆	UNF250R-A ◆
	3	85.7 (3.38)	136.5 (5.38)	—	UNF300R ◆	UNF300R-A ◆
	3-1/2	85.7 (3.38)	149.2 (5.88)	—	UNF350R ◆	UNF350R-A ◆
	4	88.9 (3.50)	163.5 (6.44)	—	UNF400R ◆	UNF400R-A ◆
	5	98.4 (3.88)	212.7 (8.33)	—	UNF500R	—
	6	101.6 (4.00)	244.5 (9.63)	—	UNF600R	—

Dimensions in Millimeters (Inches)

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

UNL 90° Elbow Unions – For connecting conduit to enclosure



	1/2	1/2	62.7 (2.47)	35.1 (1.38)	52.3 (2.06)	UNL50N ◇
	1/2	3/4 ①	62.7 (2.47)	41.4 (1.63)	52.3 (2.06)	UNL50-75N ◇
	3/4	1/2 ①	50.8 (2.00)	35.1 (1.38)	47.6 (1.88)	UNL75-50N ◇
	3/4	3/4	50.8 (2.00)	41.4 (1.63)	47.6 (1.88)	UNL75N ◇

① Male end given first

◇ 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

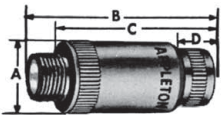
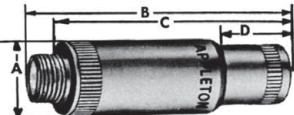
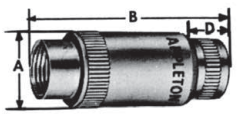
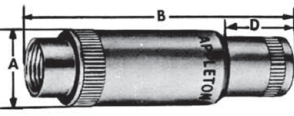
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NEC/CEC:

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

HAZARDOUS LOCATION FITTINGS: NEC/CEC EXPLOSIONPROOF 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 in Millimeters (Inches)

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

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- Expansion unions compensate for expansion and contraction of conduit.

Features

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- 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.
 - Concretetight
- 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

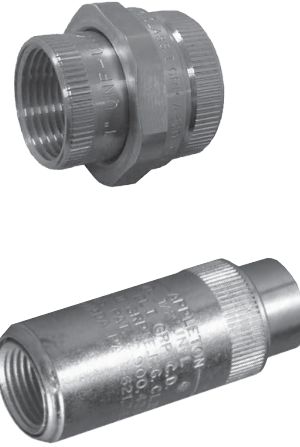
- Malleable iron products: triplecoat — (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Steel products: zinc electroplate
- Aluminum products 1/2" thru 4": natural

Options

- Stainless steel UNF/UNY available 1/2", 3/4", and 1". Add suffix **-SS** to catalog number.

NEC/CEC Certifications and Compliances

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



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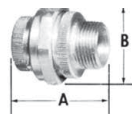
HAZARDOUS LOCATION FITTINGS: NEC/CEC EXPLOSIONPROOF CONDUIT FITTINGS

Appleton

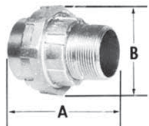
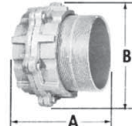
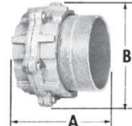
Size (Inches)	Millimeters (Inches)		Steel (1/2" to 1")	Catalog Number	
	A	B		Malleable (1-1/4" to 6")	Aluminum (1/2" to 4")

UNY Unions – For connecting conduit to enclosure

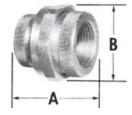
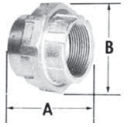
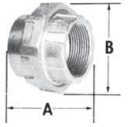
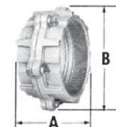
Male/Female (Nipple Not Removable)

	1/2	54.4 (2.15)	37.3 (1.47)	UNY50NR ◇	—	UNY50NR-A ◇
	3/4-1/2	54.8 (2.16)	37.3 (1.47)	UNY75-50NR ◇	—	UNY75-50NR-A ◇
	3/4	54.8 (2.16)	44.5 (1.75)	UNY75NR ◇	—	UNY75NR-A ◇
	1	66.7 (2.62)	50.8 (2.00)	UNY100NR ◇	—	UNY100NR-A ◇

Male/Female (Removable Male Nipple)

	1-1/4	79.4 (3.13)	71.4 (2.81)	—	UNY125NR ◆	UNY125NR-A ◆
	1-1/2	82.6 (3.25)	77.8 (3.06)	—	UNY150NR ◆	UNY150NR-A ◆
	2	92.1 (3.63)	94.5 (3.72)	—	UNY200NR ◆	UNY200NR-A ◆
	2-1/2	122.2 (4.81)	123.8 (4.88)	—	UNY250R ◆	UNY250R-A ◆
	3	122.2 (4.81)	136.5 (5.38)	—	UNY300R ◆	UNY300R-A ◆
	3-1/2	125.4 (4.94)	149.2 (5.88)	—	UNY350R ◆	UNY350R-A ◆
	4	130.2 (5.13)	163.5 (6.44)	—	UNY400R ◆	UNY400R-A ◆
	5	142.9 (5.63)	212.7 (8.33)	—	UNY500R	—
	6	146.1 (5.75)	244.5 (9.63)	—	UNY600R	—

UNF Female Unions – For connecting conduit to conduit

	1/2	37.3 (1.47)	37.3 (1.47)	UNF50NR ◇	—	UNF50NR-A ◇
	3/4-1/2 ①	37.3 (1.47)	37.3 (1.47)	UNF75-50NR ◇	—	UNF75-50NR-A ◇
	3/4	37.3 (1.47)	44.5 (1.75)	UNF75NR ◇	—	UNF75NR-A ◇
	1	43.7 (1.72)	50.8 (2.00)	UNF100NR ◇	—	UNF100NR-A ◇
	1-1/4	55.6 (2.19)	71.4 (2.81)	—	UNF125NR ◆	UNF125NR-A ◆
	1-1/2	55.6 (2.19)	77.8 (3.06)	—	UNF150NR ◆	UNF150NR-A ◆
	2	58.7 (2.31)	94.5 (3.72)	—	UNF200NR ◆	UNF200NR-A ◆
	2-1/2	85.7 (3.38)	123.8 (4.88)	—	UNF250R ◆	UNF250R-A ◆
	3	85.7 (3.38)	136.5 (5.38)	—	UNF300R ◆	UNF300R-A ◆
	3-1/2	85.7 (3.38)	149.2 (5.88)	—	UNF350R ◆	UNF350R-A ◆
	4	88.9 (3.50)	163.5 (6.44)	—	UNF400R ◆	UNF400R-A ◆
	5	98.4 (3.88)	212.7 (8.33)	—	UNF500R	—
	6	101.6 (4.00)	244.5 (9.63)	—	UNF600R	—

Dimensions in Millimeters (Inches)

Size (Inches)	Millimeters (Inches)		Catalog Number		
	Male	Female	A	B	C

UNL 90° Elbow Unions – For connecting conduit to enclosure



1/2	1/2	62.7 (2.47)	35.1 (1.38)	52.3 (2.06)	UNL50N ◇
1/2	3/4 ①	62.7 (2.47)	41.4 (1.63)	52.3 (2.06)	UNL50-75N ◇
3/4	1/2 ①	50.8 (2.00)	35.1 (1.38)	47.6 (1.88)	UNL75-50N ◇
3/4	3/4	50.8 (2.00)	41.4 (1.63)	47.6 (1.88)	UNL75N ◇

① Male end given first

◇ 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

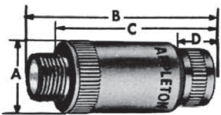
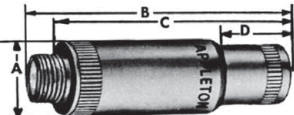
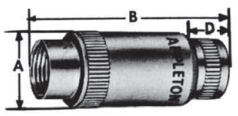
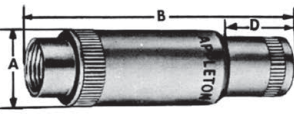
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Class I, Division 1 and 2, Groups C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III

HAZARDOUS LOCATION FITTINGS: NEC/CEC EXPLOSIONPROOF 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 in Millimeters (Inches)

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