

# Trueflo Systems

Keeps flowing

## Dielectric Union

**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure,

**Trueflo Dielectric Unions** feature a steel pipe connection to brass pipe connection in varying combinations.

### Applications

Dielectric Unions can be used on all installations of heating, air conditioning, hot water storage tanks, chilled water processing tanks, FCUs and AHUs

### Why use Dielectric Unions

Electrolytic corrosion occurs in plumbing systems that contain dissimilar metals. Copper present in heating systems is a metal that dissolves very easily. Waterborne copper particles thus circulate in heating network and come in contact with other metals forming an electric pile phenomenon. Water and the 2 dissimilar metals form a "battery" where electric current carries ions from one metal to another causing it to dissolve.

The washer inside Trueflo Dielectric Union prevents such current from flowing thus preventing corrosion itself.

### Range of Trueflo Unions

Considering the various applications of Dielectric Unions, Trueflo Dielectric Unions come in various types depending on the metals and connection requirements.

*Maximum Pressure Rating: 16 Bar*

*Maximum Temperature Rating: 110C*

Choose among the following Trueflo models:

### Identifying Model numbers

Trueflo Dielectric Unions have a model number starting with the digits '11'

The standard model number is 11XYR

- 11 identifies the item as Dielectric Union

- X identifies the type of steel connection required

- Y identifies the type of brass/copper connection required

- R identifies that the required item is of Reducer type

Trueflo Model #	Steel Connection	Brass/Copper Connection
11FF	Female Threaded	Female Threaded
11FM	Female Threaded	Male Threaded
11MF	Male Threaded	Female Threaded
11MM	Male Threaded	Male Threaded
11FC	Female Threaded	Solder
11MC	Male Threaded	Solder
11MFR	Male Threaded	Female Threaded



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## Dielectric Union

### Technical Data Sheet

### Model 11FF

### *Steel Female Threaded x Brass Female Threaded*



**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure,

**Trueflo Dielectric Union Model 11FF** features a steel female threaded pipe connection to brass female threaded pipe connection.

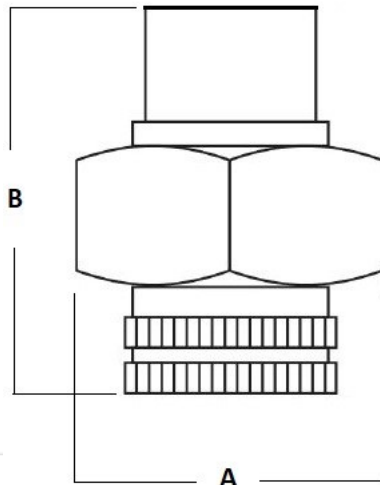
#### Features

- Female steel pipe thread to female brass thread connection
- Designed and manufactured to the highest quality standards
- Factory certified to withstand a minimum of 600 volts on a dry line with no flashover
- Rated to 82°C at 17.2 bar with standard gasket A and 149°C at 3.4 bar with optional gasket B

*Maximum Pressure Rating: 16 Bar  
Maximum Temperature Rating: 110C*

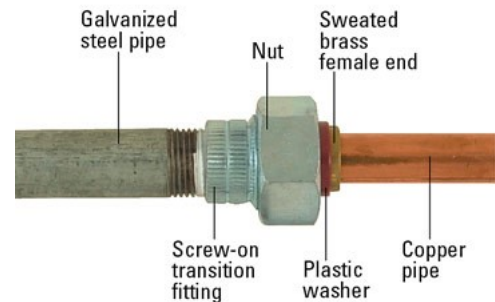
#### Technical Details

Size		Materials					Dimensions			
inch	mm	Tail Piece	Adapter	Nut	Insert	Gasket	A		B	
							inch	mm	inch	mm
0.50	15	Brass	Steel	Steel	Polysulphone	Buna-N	1.50	41	2.25	57
0.75	20	Brass	Steel	Steel	Polysulphone	Buna-N	1.63	48	2.25	57
1	25	Brass	Steel	Steel	Polysulphone	Buna-N	2.25	57	2.50	64
1.25	32	Brass	Steel	Steel	Polysulphone	Buna-N	2.75	70	2.75	70
1.50	40	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.50	89	2.75	70
2	50	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	4.12	105	3.12	79



*Threaded connections available in both BSPT and NPT*

#### How to Install



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## Dielectric Union

### Technical Data Sheet

### Model 11FM

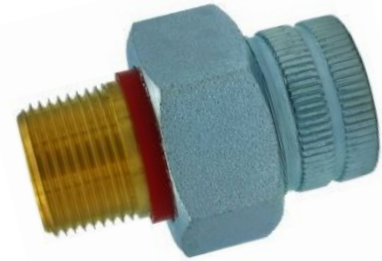
### Steel Female Threaded x Brass Male Threaded

**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure,

**Trueflo Dielectric Union Model 11FM** features a steel female threaded pipe connection to brass male threaded pipe connection.

#### Features

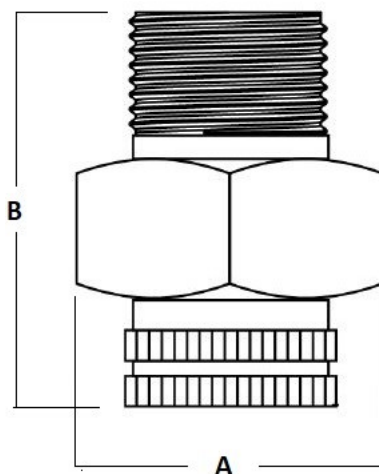
- Female steel pipe thread to male brass thread connection
- Designed and manufactured to the highest quality standards
- Factory certified to withstand a minimum of 600 volts on a dry line with no flashover
- Rated to 82°C at 17.2 bar with standard gasket A and 149°C at 3.4 bar with optional gasket B



Maximum Pressure Rating: 16 Bar  
Maximum Temperature Rating: 110C

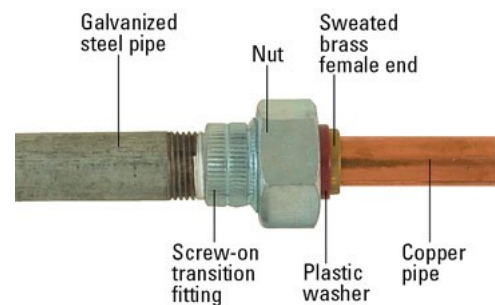
#### Technical Details

Size		Materials					Dimensions			
inch	mm	Tail Piece	Adapter	Nut	Insert	Gasket	A		B	
							inch	mm	inch	mm
0.50	15	Brass	Steel	Steel	Polysulphone	Buna-N	1.84	47	2.79	71
0.75	20	Brass	Steel	Steel	Polysulphone	Buna-N	2.16	55	2.85	72
1	25	Brass	Steel	Steel	Polysulphone	Buna-N	2.60	66	3.42	87
1.25	32	Brass	Steel	Steel	Polysulphone	Buna-N	2.93	74	3.68	93
1.50	40	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.72	94	3.80	97
2	50	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	4.44	113	4.22	107



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## Dielectric Union

### Technical Data Sheet

### Model 11MF

### Steel Male Threaded x Brass Female Threaded

**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure,

**Trueflo Dielectric Union Model 11MF** features a steel male threaded pipe connection to brass female threaded pipe connection.

#### Features

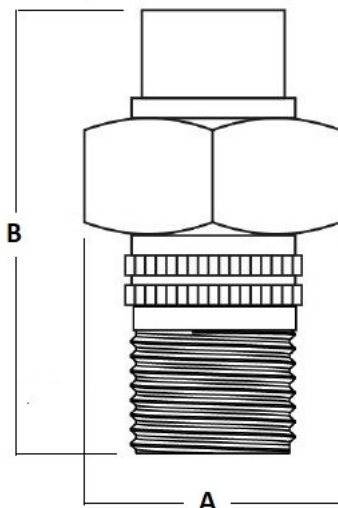
- Male steel pipe thread to female brass thread connection
- Designed and manufactured to the highest quality standards
- Factory certified to withstand a minimum of 600 volts on a dry line with no flashover
- Rated to 82°C at 17.2 bar with standard gasket A and 149°C at 3.4 bar with optional gasket B



*Maximum Pressure Rating: 16 Bar  
Maximum Temperature Rating: 110C*

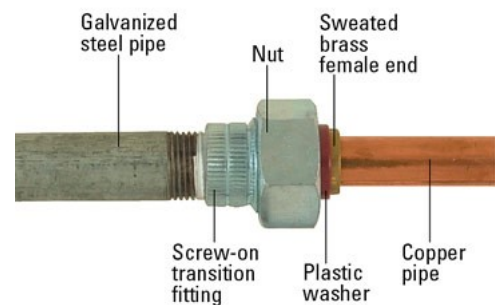
#### Technical Details

Size		Materials					Dimensions			
inch	mm	Tail Piece	Adapter	Nut	Insert	Gasket	A		B	
							inch	mm	inch	mm
0.50	15	Brass	Steel	Steel	Polysulphone	Buna-N	1.84	47	2.79	71
0.75	20	Brass	Steel	Steel	Polysulphone	Buna-N	2.16	55	2.85	72
1	25	Brass	Steel	Steel	Polysulphone	Buna-N	2.60	66	3.42	87
1.25	32	Brass	Steel	Steel	Polysulphone	Buna-N	2.93	74	3.68	93
1.50	40	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.72	94	3.80	97
2	50	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	4.44	113	4.22	107



*Threaded connections available in both BSPT and NPT*

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## Dielectric Union

### Technical Data Sheet

### Model 11MM

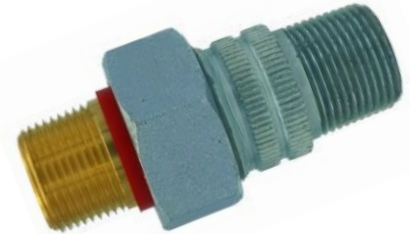
#### Steel Male Threaded x Brass Male Threaded

**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure.

**Trueflo Dielectric Union Model 11MM** features a steel male threaded pipe connection to brass male threaded pipe connection.

#### Features

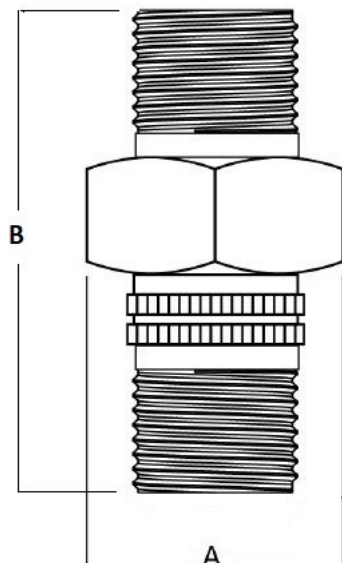
- Male steel pipe thread to male brass thread connection
- Designed and manufactured to the highest quality standards
- Factory certified to withstand a minimum of 600 volts on a dry line with no flashover
- Rated to 82°C at 17.2 bar with standard gasket A and 149°C at 3.4 bar with optional gasket B



Maximum Pressure Rating: 16 Bar  
Maximum Temperature Rating: 110C

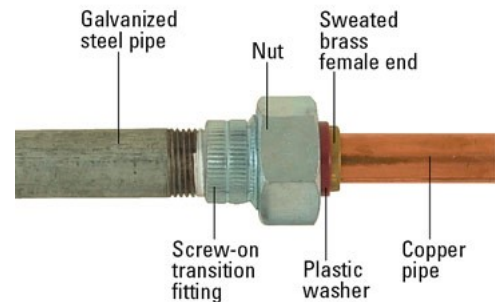
#### Technical Details

Size		Materials					Dimensions			
inch	mm	Tail Piece	Adapter	Nut	Insert	Gasket	A		B	
							inch	mm	inch	mm
0.50	15	Brass	Steel	Steel	Polysulphone	Buna-N	1.40	36	3.30	83
0.75	20	Brass	Steel	Steel	Polysulphone	Buna-N	1.62	41	3.35	85
1	25	Brass	Steel	Steel	Polysulphone	Buna-N	1.88	48	3.72	94
1.25	32	Brass	Steel	Steel	Polysulphone	Buna-N	2.28	58	4.13	105
1.50	40	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.48	88	4.30	109
2	50	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.48	88	4.45	113



Threaded connections available in both BSPT and NPT

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## Dielectric Union

### Technical Data Sheet

### Model 11FC

### Steel Female Threaded x Brass/Copper Solder

**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure.

**Trueflo Dielectric Union Model 11FC** features a steel female threaded pipe connection to brass/copper solder connection.

#### Features

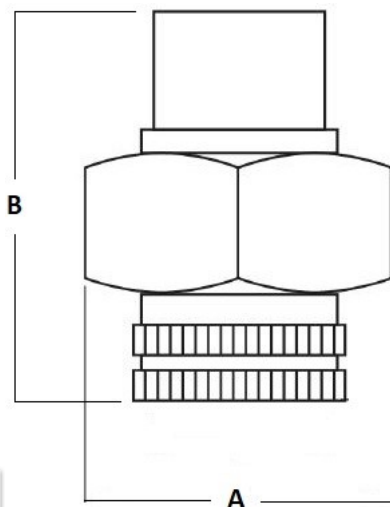
- Female steel pipe thread to solder brass/copper connection
- Designed and manufactured to the highest quality standards
- Factory certified to withstand a minimum of 600 volts on a dry line with no flashover
- Rated to 82°C at 17.2 bar with standard gasket A and 149°C at 3.4 bar with optional gasket B



Maximum Pressure Rating: 16 Bar  
Maximum Temperature Rating: 110C

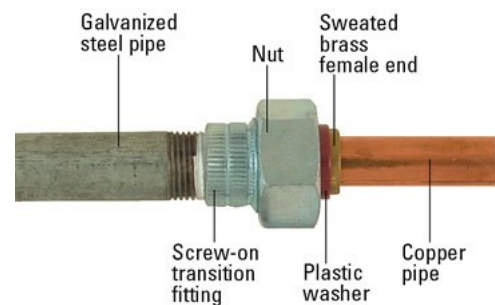
#### Technical Details

Size		Materials					Dimensions			
inch	mm	Tail Piece	Adapter	Nut	Insert	Gasket	A		B	
							inch	mm	inch	mm
0.50	15	Brass	Steel	Steel	Polysulphone	Buna-N	1.40	36	1.85	47
0.75	20	Brass	Steel	Steel	Polysulphone	Buna-N	1.62	41	2.11	54
1	25	Brass	Steel	Steel	Polysulphone	Buna-N	1.88	48	2.33	59
1.25	32	Brass	Steel	Steel	Polysulphone	Buna-N	2.26	58	2.66	68
1.50	40	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	2.74	70	2.74	70
2	50	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.48	88	3.11	79



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## Dielectric Union

### Technical Data Sheet

### Model 11MC

#### Steel Male Threaded x Brass/Copper Solder

**Dielectric Unions** are designed to be installed between pipes of dissimilar metals to avoid electrolysis, which leads to corrosion and pipe failure.

**Trueflo Dielectric Union Model 11MC** features a steel male threaded pipe connection to brass/copper solder connection.

#### Features

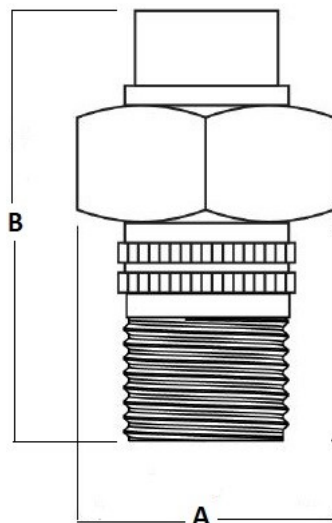
- Male steel pipe thread to solder brass/copper connection
- Designed and manufactured to the highest quality standards
- Factory certified to withstand a minimum of 600 volts on a dry line with no flashover
- Rated to 82°C at 17.2 bar with standard gasket A and 149°C at 3.4 bar with optional gasket B



Maximum Pressure Rating: 16 Bar  
Maximum Temperature Rating: 110C

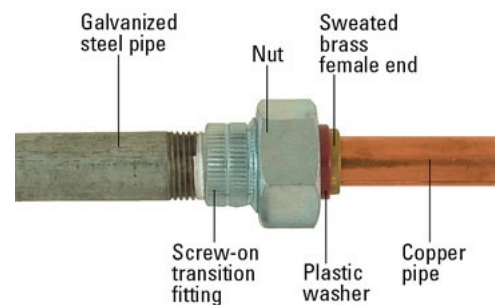
#### Technical Details

Size		Materials					Dimensions			
inch	mm	Tail Piece	Adapter	Nut	Insert	Gasket	A		B	
							inch	mm	inch	mm
0.50	15	Brass	Steel	Steel	Polysulphone	Buna-N	1.40	36	1.85	47
0.75	20	Brass	Steel	Steel	Polysulphone	Buna-N	1.62	41	2.11	54
1	25	Brass	Steel	Steel	Polysulphone	Buna-N	1.88	48	2.33	59
1.25	32	Brass	Steel	Steel	Polysulphone	Buna-N	2.26	58	2.66	68
1.50	40	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	2.74	70	2.74	70
2	50	Brass	Steel	Malleable Iron	Polysulphone	Buna-N	3.48	88	3.11	79



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