



490



Swivel In-Line Union with Lockstop (M to F)

Selection Table

Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Typical A/F (mm) 'E'	Typical A/C (mm) 'F'
M16	1.5	M16	1.5	16	36	39.5
M20	1.5	M20	1.5	16	36	39.5
M25	1.5	M25	1.5	16	46	50.5
M32	1.5	M32	1.5	16	46	50.5
M40	1.5	M40	1.5	16	65	70.8
M50	1.5	M50	1.5	16	65	70.8
M63	1.5	M63	1.5	16	95	104
M75	1.5	M75	1.5	16	95	104

Note: Different thread sizes and types are permitted at each end of the inline swivel, a step of one thread size is permitted between the two threads. Where different thread types / sizes are supplied, the overall dimensions of the inline swivel may increase in size.

Ordering Example:

Product	Thread Size	Pitch	Material	Finish
490	M32 Male x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.

General Information

- Manufactured in Brass, Nickel Plated Brass, Steel, Nickel Plated Steel and Stainless Steel.
- M16 to M75 as standard.
- Other parallel male thread options available on request, including BSPP, PG, ET and NPSM.
- NPT female threads can also be supplied in sizes ranging from ½" to 3".
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and mining applications.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1 IEC/EN 60079-7 and IEC/EN 60079-31.
- Integral Silicone O Ring seal.
- Ingress Protection: IP66. (when installed with a Hawke washer)
- Assembly Instruction Sheet: AI 416.

Certification Details

- Increased Safety & Flameproof Exe IMb, Exd IMb, Exe IIC Gb, Exd IIC Gb, Extb IIIC Db, IM2 / II 2GD.
- Certificate No's: Sira 11ATEX1347U and IECEx SIR 11.0152U.
- Ex TC RU C-GB.Γ505.B.00750 EAC
- *Operating Temperature Range -60°C to +100°C.
- Group I, II and III.

**The operating temperature may have to be reduced if an IP washer is used*



491



Swivel In-Line Union (M to F)

Selection Table

Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Typical A/F (mm) 'E'	Typical A/C (mm) 'F'
M16	1.5	M16	1.5	16	36	39.5
M20	1.5	M20	1.5	16	36	39.5
M25	1.5	M25	1.5	16	46	50.5
M32	1.5	M32	1.5	16	46	50.5
M40	1.5	M40	1.5	16	65	70.8
M50	1.5	M50	1.5	16	65	70.8
M63	1.5	M63	1.5	16	95	104
M75	1.5	M75	1.5	16	95	104

Note: Different thread sizes and types are permitted at each end of the inline swivel, a step of one thread size is permitted between the two threads. Where different thread types / sizes are supplied, the overall dimensions of the inline swivel may increase in size.

Ordering Example:

Product	Thread Size	Pitch	Material	Finish
491	M32 Male x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.

General Information

- Manufactured in Brass, Nickel Plated Brass, Steel, Nickel Plated Steel and Stainless Steel.
- M16 to M75 as standard.
- Other thread options available on request, including BSPP, PG, ET and NPSM.
- NPT female threads can also be supplied in sizes ranging from ½" to 3".
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and mining applications.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1 IEC/EN 60079-7 and IEC/EN 60079-31.
- Integral Silicone O Ring seal.
- Ingress Protection: IP66. (when installed with a Hawke washer)
- Assembly Instruction Sheet: AI 417.

Certification Details

- Increased Safety & Flameproof Exe IMb, Exd IMb, Exe IIC Gb, Exd IIC Gb, Extb IIIC Db, IM2 / II 2GD.
- Certificate No's: Sira 11ATEX1347U and IECEx SIR 11.0152U.
- Ex TC RU C-GB.Γ505.B.00750 EAC
- *Operating Temperature Range -60°C to +100°C.
- Group I, II and III.

**The operating temperature may have to be reduced if an IP washer is used*



496

Swivel 90° Fixed Elbow (F to F)



General Information

- Manufactured in Brass, Nickel Plated Brass, Steel, Nickel Plated Steel and Stainless Steel.
- M20 to M75 as standard.
- Other parallel male thread options available on request, including BSPP, PG, ET and NPSM.
- NPT female threads can also be supplied in sizes ranging from 1/2" to 3".
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and mining applications.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1 IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66. (when installed with a Hawke washer)
- Assembly Instruction Sheet: AI 430.

Certification Details

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db II 2GD.
- Certificate No's: Baseefa 14ATEX0014U and IECEx BAS 14.0002U.
- Ex TC RU C-GB.ГБ05.В.00750 EAC
- *Operating Temperature Range -60°C to +200°C.
- Group II and III.

* The operating temperature may have to be reduced if an IP washer is used

Selection Table

Female Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Female Thread Length (mm)	Typical Block Size (mm)
M20	1.5	M20	1.5	16	27
M25	1.5	M25	1.5	16	35
M32	1.5	M32	1.5	16	42
M40	1.5	M40	1.5	16	50
M50	1.5	M50	1.5	16	60
M63	1.5	M63	1.5	16	78
M75	1.5	M75	1.5	16	90

Note: Different thread sizes and types are permitted at each end of the elbow, a step of one thread size is permitted between the two threads.

Where different thread types / sizes are supplied, the overall dimensions of the elbow may increase in size.

Ordering Example:

Product	Thread Size	Pitch	Material	Finish
496	M32 Female x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.



481

Union (M to F)



General Information

- Manufactured in Brass, Nickel Plated Brass, Steel, Nickel Plated Steel and Stainless Steel.
- M16 to M75 as standard.
- Other parallel thread options available on request, including BSPP, PG, ET and NPSM.
- NPT female threads can also be supplied in sizes ranging from 1/2" to 3".
- Suitable for use in Zone 1 and Zone 2.
- Construction and Test Standards: IEC/EN 60079-0 and IEC/EN 60079-1.
- Ingress Protection: IP54.
- Assembly Instruction Sheet: AI 407.

Certification Details

- Flameproof Exd IIC Gb, II 2G.
- Certificate No's: Baseefa 14ATEX0014U and IECEx BAS 14.0002U
- Ex TC RU C-GB.ГБ05.В.00750 EAC
- Operating Temperature Range -60°C to +80°C.
- Group II.

Selection Table

Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Across Flats (mm)	Across Corners (mm)
M16	1.5	M16	1.5	16	30	32.5
M20	1.5	M20	1.5	16	36	39.5
M25	1.5	M25	1.5	16	46	50.5
M32	1.5	M32	1.5	16	46	50.5
M40	1.5	M40	1.5	16	55	60.5
M50	1.5	M50	1.5	16	80	88
M63	1.5	M63	1.5	16	80	88
M75	1.5	M75	1.5	16	95	104

Note: Different thread sizes and types are permitted at each end of the adaptor, a step of one thread size is permitted between the two threads.

Where different thread types / sizes are supplied, the overall dimensions of the adaptor may increase in size.

Ordering Example:

Product	Thread Size	Pitch	Material	Finish
481	M32 Male x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.



482
Union (F to F)



Selection Table						
Female Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Across Flats (mm)	Across Corners (mm)
M16	1.5	M16	1.5	16	30	32.5
M20	1.5	M20	1.5	16	36	39.5
M25	1.5	M25	1.5	16	46	50.5
M32	1.5	M32	1.5	16	46	50.5
M40	1.5	M40	1.5	16	55	60.5
M50	1.5	M50	1.5	16	80	88
M63	1.5	M63	1.5	16	80	88
M75	1.5	M75	1.5	16	95	104

*Note: Different thread sizes and types are permitted at each end of the union, a step of one thread size is permitted between the two threads.
Where different thread types / sizes are supplied, the overall dimensions of the union may increase in size.*

Ordering Example:				
Product	Thread Size	Pitch	Material	Finish
482	M32 Female x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.

- ### General Information
- Manufactured in Brass, Nickel Plated Brass, Steel, Nickel Plated Steel and Stainless Steel.
 - M16 to M75 as standard.
 - Other parallel thread options available on request, including BSPP, PG, ET and NPSM.
 - NPT female threads can also be supplied in sizes ranging from ½" to 3".
 - Suitable for use in Zone 1 and Zone 2.
 - Construction and Test Standards: IEC/EN 60079-0 and IEC/EN 60079-1.
 - Ingress Protection: IP54.
 - Assembly Instruction Sheet: AI 407.

- ### Certification Details
- Flameproof Exd IIC Gb, II 2G.
 - Certificate No's: Baseefa 14ATEX0155U and IECEx BAS 11.0077U.
 - Ex TC RU C-GB.ГБ05.B.00750 EAC
 - Operating Temperature Range -60°C to +80°C.
 - Group II.



478
Insulated Adaptor



Selection Table						
Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Across Flats (mm)	Across Corners (mm)
M20	1.5	M20	1.5	15	36	39.5
M25	1.5	M25	1.5	15	46	50.5
M32	1.5	M32	1.5	15	55	60.6
M40	1.5	M40	1.5	15	65	70.5
M50	1.5	M50	1.5	15	80	88
M63	1.5	M63	1.5	15	95	104
M75	1.5	M75	1.5	15	106.4	115

*Note: Different thread sizes and types are permitted at each end of the adaptor, a step of one thread size is permitted between the two threads.
Where different thread types / sizes are supplied, the overall dimensions of the adaptor may increase in size.*

Ordering Example:				
Product	Thread Size	Pitch	Material	Finish
478	M20 Male x ¾" NPT Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.

- ### General Information
- For converting dissimilar or similar thread forms or thread sizes and insulating cable gland entry from the equipment.
 - Manufactured in Brass, Nickel Plated Brass, Steel, Nickel Plated Steel, Stainless Steel. (Aluminium for Group II use only).
 - Insulating Material: Polyamide
 - M20 to M75 as standard.
 - Other parallel thread options available on request, including BSPP, PG, ET and NPSM.
 - NPT threads can also be supplied in sizes ranging from ½" to 3"
 - Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
 - Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1 IEC/EN 60079-7 and IEC/EN 60079-31.
 - Ingress Protection: IP66. (when installed with a Hawke washer)
 - Assembly Instruction Sheet: AI 426.

- ### Certification Details
- Increased Safety and Flameproof Exe I Mb, Exd I Mb, Exe IIC Gb, Exd IIC Gb, Extb IIIC Db, I M2 / II 2GD.
 - Certificate No's: Baseefa 12ATEX0207X and IECEx BAS 12.0111X
 - Ex TC RU C-GB.ГБ05.B.00750 EAC
 - *Operating Temperature Range -55°C to +95°C.
 - Group I, II and III.

** The operating temperature may have to be reduced if an IP washer is used*