



492

Swivel 90° Elbow with Lockstop (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 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 418.

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.ГБ05.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*

Selection Table

Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Typical A/F (mm) 'C'	Typical A/C (mm) 'D'
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	55	60.6
M32	1.5	M32	1.5	16	55	60.6
M40	1.5	M40	1.5	16	80	88
M50	1.5	M50	1.5	16	80	88
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 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
492	M32 Male x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.



493

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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 419.

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.ГБ05.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*

Selection Table

Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Typical A/F (mm) 'C'	Typical A/C (mm) 'D'
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	55	60.6
M32	1.5	M32	1.5	16	55	60.6
M40	1.5	M40	1.5	16	80	88
M50	1.5	M50	1.5	16	80	88
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 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
493	M32 Male x M32 Female	1.5 mm	Brass	Nickel Plated

Always state the male thread first.



494

90° Fixed Elbow (M to F)



Selection Table						
Male Thread Size	Thread Pitch (mm)	Female Thread Size	Thread Pitch (mm)	Thread Length (mm)	Typical A/F (mm) 'C'	Typical A/C (mm) 'D'
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	55	60.6
M32	1.5	M32	1.5	16	55	60.6
M40	1.5	M40	1.5	16	80	88
M50	1.5	M50	1.5	16	80	88
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 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
494	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.
 - M20 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".
 - NPT threads are not permitted on the male threaded selection.
 - 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 428.

- ### 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.Г505.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



495

90° Fixed Elbow (M to M)



Selection Table					
Male Thread Size	Thread Pitch (mm)	Male Thread Size	Thread Pitch (mm)	Male Thread Length (mm)	Typical Block Size (mm)
M20	1.5	M20	1.5	15	27
M25	1.5	M25	1.5	15	35
M32	1.5	M32	1.5	15	42
M40	1.5	M40	1.5	15	50
M50	1.5	M50	1.5	15	60
M63	1.5	M63	1.5	15	78
M75	1.5	M75	1.5	15	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
495	M32 Male x M32 Male	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.
 - M20 to M75 as standard.
 - Other thread options available on request, including BSPP, PG, ET and NPSM. NPT threads are not permitted.
 - 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 429.

- ### 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.Г505.B.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



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 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.
- 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 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 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.