



Allpex

**Malleable Iron Fittings (Black and Galvanised) to
BS EN 10242-1995/ISO 49; BS 143 & BS 1256:2000;
Malleable Iron Pipe Clips, Brackets & Sundries,
Rapido Compression Couplings,
Steel Tubulars to BS EN 10255:2004 (BS 1387:1985)**



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Allpex Malleable Iron Fittings - Product Information.

Scope & Application:

Malleable cast iron fittings are one of the widely used pipe fittings with a long history of usage. Due to their durability and mechanical strength they are increasingly popular in a number of applications. These fittings are used in sanitary, heating & gas installations, cooling & air conditioning, sprinkler & fire extinguishing systems, hydraulic & pressured air pipe work, in machine construction such as oil, cooling & lubrication pipes, petrol stations & gas lines etc.

Important features of the product are:

- Female threads with reinforcing band protects threads at entry.
- Very large range of products minimises the need for combinations and hence the cost.
- High purity zinc galvanising ensures the quality of potable water, prevents rust formation in storage or stagnant conditions and is ideal for anaerobic sealing.
- Precise threads and their accurate axial alignment ensure high sealing force and true pipe alignment.
- All fittings are pressure tested individually.

Standards & Specifications:

All Allpex/Atusa malleable iron fittings comply with the international ISO 49 standard as well as the corresponding national standards. e.g. BS 10242:1995, EN 45012, BS 143 and BS 1256, DIN 2950, NFA 29-801 and UNI 5192. Maximum working pressure is 25kg/mm² for temperatures up to 120°C and 20kg/mm² from 120°C to 300°C.

Materials and Specification:

All fittings are made of white heart malleable cast iron according to EN-CJMW-400-05 (W 40-05) within ISO 5922 equivalent to GTW 40-05 of DIN 1692 and W 40-05 of BS 6681. The threads are cut according to ISO 7/1 i.e. parallel internal thread (female) and tapered external thread (male).

Each fitting is individually pressure tested according to the BS EN 10242:1995, BS 143 and ISO 49 standards in order to ensure the quality of material and manufacture.

Working Pressure and Temperature Rating:

As specified in the standard EN 10242:1995, the fittings are fit for the transmission of fluids and gases up to the following limits of pressure and temperatures:

- a) Normal Applications
 - Minimum service temperature - 20°C
 - Pressure to the minimum service temperature - 25 bar
 - Maximum working pressure for temperatures between 20°C to 120°C - 25 bar
 - Maximum working pressure for temperatures between 120°C to 300°C - 20 to 25 bar
- b) Special Applications
For special applications to temperatures less than 20°C or any other different from the normal applications, to be checked with the manufacturer.

Malleable iron fittings can be used in most types of installations for the transport of fluids - liquids, air, water, natural gas, fuel gas, hydrocarbons etc.

Galvanisation:

Malleable iron fittings are hot dip galvanised according to EN 10242:1995. The 98.5% pure zinc coating exceeds 500g / m² which gives an average of over 70 µm.

The process of hot dip galvanising provides the fittings with a zinc coating that is bonded metallurgically to the base material. The metallurgical bond provides a strong adhesion between the zinc and the base material. The thickness of the zinc coating and the adhesion between the zinc and the base material gives white heart malleable iron fittings an optimal and near permanent corrosion protection. Due to the purity of the zinc layer, the fittings may be especially recommended for the use in drinking water.

Washing and Varnishing Processes:

All fittings are thoroughly washed and dried to remove residues, chips, cutting compound and contamination from the machining process. Finally the fittings are finished with a coating of special anticorrosion varnish.

Nominal pipe diameter and connecting thread sizes:

mm	6	8	10	15	20	25	32	40	50	65	80	100
Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4

Threaded joints (male & female):

Fittings are machined with taper external (male) threads and parallel internal (female) threads and comply with the ISO 7/1 standard which is equivalent to the UNE 19.009, DIN 2999 and BS 21. The machining process used ensures the threads are aligned with a deviation of less than 0.5° (30') as required by the product standards.

Compression joints:

The white heart malleable cast iron compression pipe fittings are threaded with internal and external parallel threads (compression nut & body) according to ISO 228/1. The process of machining used for fittings guarantees an alignment of the threads with a deviation of less than 0.5° as required by the product standard.

Product Marking:

All malleable iron fittings are manufactured and marked as per relevant BS EN & ISO standards.

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Allpex Malleable Iron Fittings - Product Information.

RECOMMENDED INSTALLATION TIPS

1. The surfaces of the threads should be cleaned before joining.
 2. Use of appropriate thread sealing material for the installation which is applied on male threads.
- Suitable Material for applications:

Application	(A) Non hardening sealing paste	(B) PFTF Teflon sealing tape	(C) Hemp With minimum (A)	(D) Hemp	(E) Special sealing paste
Potable water	*	**	*	*	
Hot water	*	**	*		
Natural gas & GLPS	*	***			
Compressed air	*	***			
Chemical fluids up to 160					*

* Usable with or without hemp; ** The thickness of the sealing tape should be above 0.1mm; *** Special thickness check with local gas authority if not then min 0.3mm.

3. The sealing material should be applied homogeneously and evenly on the external male thread using the recommendations shown above.
4. The joint is made by inserting taper male thread of the fitting into the female thread and hand tightening followed by tightening with a tool in accordance with the dimensions shown below in "Threaded Joints".
5. A lubricant should be used in case of using hemp without a sealing paste.
6. Check if all axes of the different threaded joint components are aligned according to the tolerances as indicated in ISO 49.

Installation Tips:

- Do not install pipes and fittings in direct contact or buried into gypsum, lime or cement plasters.
- If required then they should be covered using lagging of water proofing tape or other proprietary protection.
- Protect from water contact or humidity on external surfaces.
- Do not use the installation as earthing connection for electrical circuits.
- Do not connect directly to copper or copper alloy installations as it could produce galvanic effect and resultant corrosion. If required use a di-electric fitting to separate the two.

Dimensions of Fittings:

The dimensions of malleable iron fittings do not exceed the tolerances required by the product standard ISO 49.

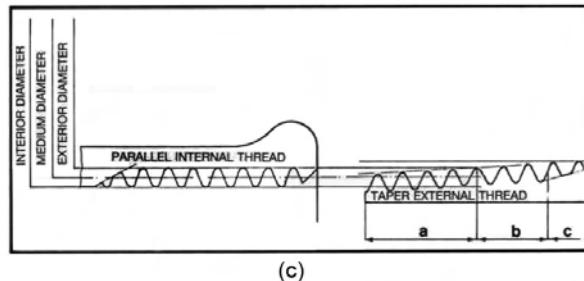
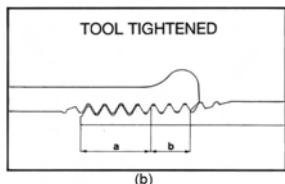
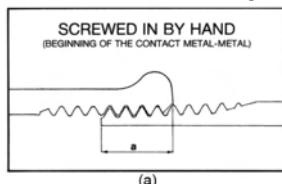
Dimensions (mm)	30	30-50	50-75	75-100	100-150	150-200	200
Tolerances (mm)	1.5	2.0	2.5	3.0	3.5	4.0	5.0

Threaded Joints

The Taper (male) / Parallel (female) threaded joint provides a reliable tight fit. The taper male thread compresses into the parallel female thread, resulting wedge action provides a tight joint. Small amount of sealing material helps to compensate any deviation in thread profile which can not be avoided due to the nature of the machining process. Material malleability allows female sockets to expand slightly under the tightening stress which gives even engagement of threads and stress absorption.

Length of thread engagement (for fittings & tube)

- "a" - Required thread length for hand tightened fix.
 "b" - Length of thread engagement under contact stress (tool tightened).
 "c" - Thread end with fully formed crest & unformed roots.



The length "b" is > 1 1/2 times the pitch of the thread. This implies a minimum tightening by tool of 1 1/2 turns.

Thread Size	Pitch (mm)	Diameter			External Threads		Usable Thread Length
		Ext. (mm)	Med. (mm)	Int. (mm)	Length "a" (Hand screwed) mm	Length "b" (tool-tightened) (Crest - mm.)	
1/4	1.337	13.157	12.301	11.445	6.0	2 3/4	3.7
3/8	1.337	16.662	15.806	14.950	6.4	2 3/4	3.7
1/2	1.814	20.955	19.793	18.631	8.2	2 3/4	5.0
3/4	1.814	26.441	25.279	24.117	9.5	2 3/4	5.0
1	2.309	33.249	31.770	30.291	10.4	2 3/4	6.4
1 1/4	2.309	41.910	40.431	38.952	12.7	2 3/4	6.4
1 1/2	2.309	47.803	46.324	44.845	12.7	2 3/4	6.4
2	2.309	59.614	58.135	56.656	15.9	3 1/4	7.5
2 1/2	2.309	75.184	73.705	72.226	17.5	4	9.2
3	2.309	87.884	86.405	84.962	20.6	4	9.2
4	2.309	113.030	111.551	110.072	25.4	4 1/2	10.4

Malleable Iron Fittings - Black & Galvanised

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SIZE	BLACK	BAG	BOX	GALV.
1A, 90° Long Radius Bend, M x F (ISO D4)				
				
1/4	MB1A-B	10	250	MZ1A-B
5/8	MB1A-C	10	125	MZ1A-C
1/2	MB1A-D	10	100	MZ1A-D
3/4	MB1A-E	10	60	MZ1A-E
1	MB1A-F		40	MZ1A-F
1 1/4	MB1A-G		20	MZ1A-G
1 1/2	MB1A-H		15	MZ1A-H
2	MB1A-I		8	MZ1A-I
2 1/2	MB1A-J		3	MZ1A-J
3	MB1A-K		4	MZ1A-K
4	MB1A-L		2	MZ1A-L

2A, 90° Long Radius Bend, F x F (ISO D1)				
				
1/4	MB2A-B	10	50	MZ2A-B
5/8	MB2A-C	10	90	MZ2A-C
1/2	MB2A-D	10	50	MZ2A-D
3/4	MB2A-E	10	35	MZ2A-E
1	MB2A-F		20	MZ2A-F
1 1/4	MB2A-G		14	MZ2A-G
2	MB2A-I		8	MZ2A-I
2 1/2	MB2A-J		2	MZ2A-J
3	MB2A-K		4	MZ2A-K
4	MB2A-L		2	MZ2A-L

40, 45° Obtuse Bend, M x F (ISO G4/45°)				
				
1/4	MB40-B	10	300	MZ40-B
5/8	MB40-C	10	200	MZ40-C
1/2	MB40-D	10	120	MZ40-D
3/4	MB40-E	10	80	MZ40-E
1	MB40-F		50	MZ40-F
1 1/4	MB40-G		25	MZ40-G
1 1/2	MB40-H		18	MZ40-H
2	MB40-I		10	MZ40-I
2 1/2	MB40-J		6	MZ40-J
3	MB40-K		3	MZ40-K
4	MB40-L		4	MZ40-L

41, 45° Obtuse Bend, F x F (ISO G1/45°)				
				
1/4	MB41-B	10	220	MZ41-B
5/8	MB41-C	10	150	MZ41-C
1/2	MB41-D	10	100	MZ41-D
3/4	MB41-E	10	60	MZ41-E
1	MB41-F		40	MZ41-F
1 1/4	MB41-G		22	MZ41-G
1 1/2	MB41-H		15	MZ41-H
2	MB41-I		9	MZ41-I
2 1/2	MB41-J		4	MZ41-J
3	MB41-K		2	MZ41-K
4	MB41-L		2	MZ41-L

SIZE	BLACK	BAG	BOX	GALV.
85, Crossover, F x F				
				
5/8	MB85-C	10	100	MZ85-C
1/2	MB85-D	10	60	MZ85-D
3/4	MB85-E	10	30	MZ85-E
1	MB85-F		20	MZ85-F
1 1/4	MB85-G		10	MZ85-G

SIZE	BLACK	BAG	BOX	GALV.
90, 90° Elbow, F x F (ISO A1)				
				

SIZE	BLACK	BAG	BOX	GALV.
90R, Reducing Elbow, F x F (ISO A1)				
				
1/8	MB90-A	10	400	MZ90-A
1/4	MB90-B	10	350	MZ90-B
5/8	MB90-C	10	250	MZ90-C
1/2	MB90-D	10	120	MZ90-D
3/4	MB90-E	10	90	MZ90-E
1	MB90-F		50	MZ90-F
1 1/4	MB90-G		30	MZ90-G
1 1/2	MB90-H		22	MZ90-H
2	MB90-I		12	MZ90-I
2 1/2	MB90-J		7	MZ90-J
3	MB90-K		4	MZ90-K
4	MB90-L		2	MZ90-L

SIZE	BLACK	BAG	BOX	GALV.
120, 45° Obtuse Elbow, F x F (ISO A1/45°)				
				
1/2	MB120-D	10	150	MZ120-D
5/8	MB120-E	10	90	MZ120-E
1	MB120-F	10	60	MZ120-F

SIZE	BLACK	BAG	BOX	GALV.
121, 45° Obtuse Elbow, M x F (ISO A4/45°)				
				
1/2	MB121-D	10	150	MZ121-D
5/8	MB121-E	10	100	MZ121-E
1	MB121-F	10	50	MZ121-F

SIZE	BLACK	BAG	BOX	GALV.
130, Tee, F x F x F (ISO B1)				
				
1/4	MB130-B	10	220	MZ130-B
5/8	MB130-C	10	120	MZ130-C
1/2	MB130-D	10	70	MZ130-D
3/4	MB130-E	10	60	MZ130-E
1	MB130-F	10	30	MZ130-F
1 1/4	MB130-G		20	MZ130-G
1 1/2	MB130-H		14	MZ130-H
2	MB130-I		10	MZ130-I
2 1/2	MB130-J		5	MZ130-J
3	MB130-K		4	MZ130-K
4	MB130-L		2	MZ130-L

SIZE	BLACK	BAG	BOX	GALV.
131, Pitcher Tee, F x F x F (ISO E1)				
				
1/2	MB131-D	10	50	MZ131-D
5/8	MB131-E	10	40	MZ131-E
1	MB131-F	10	20	MZ131-F
1 1/4	MB131-G		14	MZ131-G
1 1/2	MB131-H		8	MZ131-H

5/8	MB96-C	10	80	MZ96-C
1/2	MB96-D	10	50	MZ96-D
3/4	MB96-E	10	40	MZ96-E
continued in the next column.....				

Malleable Iron Fittings - Black & Galvanised

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SIZE	BLACK	BAG	BOX	GALV.
130-R, Reducing Tee, F x F x F (ISO B1) (middle size branch)				

$\frac{3}{8}x\frac{1}{2}x\frac{3}{8}$	MB130R-CDC	10	120	MZ130R-CDC
$\frac{3}{8}x\frac{3}{4}x\frac{3}{8}$	MB130R-CEC	10	90	MZ130R-CEC
$\frac{1}{2}x\frac{3}{8}x\frac{3}{8}$	MB130R-DCC	10	110	MZ130R-DCC
$\frac{1}{2}x\frac{3}{8}x\frac{1}{2}$	MB130R-DDC	10	110	MZ130R-DDC
$\frac{1}{2}x\frac{1}{2}x\frac{3}{8}$	MB130R-DDC	10	110	MZ130R-DDC
$\frac{1}{2}x\frac{3}{4}x\frac{3}{8}$	MB130R-DEC	10	70	MZ130R-DEC
$\frac{1}{2}x\frac{3}{4}x\frac{1}{2}$	MB130R-DED	10	70	MZ130R-DED
$\frac{1}{2}x1\frac{1}{2}$	MB130R-DFD	10	60	MZ130R-DFD
$\frac{3}{8}x\frac{3}{8}x\frac{3}{8}$	MB130R-ECC	10	70	MZ130R-ECC
$\frac{3}{8}x\frac{3}{8}x\frac{1}{2}$	MB130R-ECD	10	70	MZ130R-ECD
$\frac{3}{8}x\frac{3}{8}x\frac{3}{8}$	MB130R-ECE	10	70	MZ130R-ECE
$\frac{3}{8}x\frac{1}{2}x\frac{3}{8}$	MB130R-EDC	10	70	MZ130R-EDC
$\frac{3}{8}x\frac{1}{2}x\frac{1}{2}$	MB130R-EDD	10	60	MZ130R-EDD
$\frac{3}{8}x\frac{1}{2}x\frac{3}{8}$	MB130R-EDE	10	60	MZ130R-EDE
$\frac{3}{8}x\frac{3}{4}x\frac{3}{8}$	MB130R-EEC	10	60	MZ130R-EEC
$\frac{3}{8}x\frac{3}{4}x\frac{1}{2}$	MB130R-EED	10	50	MZ130R-EED
$\frac{3}{8}x1\frac{1}{2}$	MB130R-EFD	10	40	MZ130R-EFD
$\frac{3}{8}x1\frac{3}{4}$	MB130R-EFE	10	35	MZ130R-EFE
$\frac{3}{4}x1\frac{1}{4}x\frac{3}{4}$	MB130R-EGE	10	50	MZ130R-EGE
$1x\frac{3}{8}x\frac{3}{4}$	MB130R-FCE	10	50	MZ130R-FCE
$1x\frac{3}{8}x1$	MB130R-FCF	10	50	MZ130R-FCF
$1x\frac{1}{2}x\frac{3}{8}$	MB130R-FDC	10	50	MZ130R-FDC
$1x\frac{1}{2}x\frac{1}{2}$	MB130R-FDD	10	50	MZ130R-FDD
$1x\frac{1}{2}x\frac{3}{4}$	MB130R-FDE	10	50	MZ130R-FDE
$1x\frac{1}{2}x1$	MB130R-FDF	10	40	MZ130R-FDF
$1x\frac{3}{4}x\frac{1}{2}$	MB130R-FED	10	40	MZ130R-FED
$1x\frac{3}{4}x\frac{3}{4}$	MB130R-FEE	10	40	MZ130R-FEE
$1x\frac{3}{4}x1$	MB130R-FEF	10	40	MZ130R-FEF
$1x1\frac{1}{2}x\frac{3}{8}$	MB130R-FFC	10	40	MZ130R-FFC
$1x1\frac{1}{2}x\frac{1}{2}$	MB130R-FFD	10	40	MZ130R-FFD
$1x1\frac{1}{2}x\frac{3}{4}$	MB130R-FFE	10	30	MZ130R-FFE
$1x1\frac{1}{4}x1$	MB130R-FGF	30	MZ130R-FGF	
$1x1\frac{1}{2}x1$	MB130R-FHF	22	MZ130R-FHF	
$1\frac{1}{4}x\frac{3}{8}x\frac{1}{12}$	MB130R-GCG	30	MZ130R-GCG	
$1\frac{1}{4}x\frac{1}{2}x1$	MB130R-GDF	35	MZ130R-GDF	
$1\frac{1}{4}x\frac{1}{2}x\frac{1}{12}$	MB130R-GDG	30	MZ130R-GDG	
$1\frac{1}{4}x\frac{3}{4}x\frac{1}{2}$	MB130R-GED	40	MZ130R-GED	
$1\frac{1}{4}x\frac{3}{4}x\frac{3}{4}$	MB130R-GEE	35	MZ130R-GEE	
$1\frac{1}{4}x\frac{3}{8}x1$	MB130R-GEF	32	MZ130R-GEF	
$1\frac{1}{4}x\frac{3}{4}x\frac{1}{4}$	MB130R-GEG	30	MZ130R-GEG	
$1\frac{1}{4}x1\frac{1}{8}$	MB130R-GFC	30	MZ130R-GFC	
$1\frac{1}{4}x1\frac{1}{2}$	MB130R-GFD	32	MZ130R-GFD	
$1\frac{1}{4}x1\frac{3}{4}$	MB130R-GFE	30	MZ130R-GFE	
$1\frac{1}{4}x1x1$	MB130R-GFF	28	MZ130R-GFF	
$1\frac{1}{4}x1x1\frac{1}{4}$	MB130R-GFG	25	MZ130R-GFG	
$1\frac{1}{4}x1\frac{1}{4}x\frac{1}{2}$	MB130R-GGD	30	MZ130R-GGD	
$1\frac{1}{4}x1\frac{1}{4}x\frac{3}{4}$	MB130R-GGE	25	MZ130R-GGE	
$1\frac{1}{4}x1\frac{1}{4}x1$	MB130R-GGF	25	MZ130R-GGF	
$1\frac{1}{4}x1\frac{1}{2}x1$	MB130R-GHF	20	MZ130R-GHF	
$1\frac{1}{4}x1\frac{1}{2}x\frac{1}{12}$	MB130R-GHG	18	MZ130R-GHG	
$1\frac{1}{2}x\frac{3}{8}x\frac{1}{12}$	MB130R-HCH	28	MZ130R-HCH	
$1\frac{1}{2}x\frac{1}{2}x\frac{1}{12}$	MB130R-HDG	28	MZ130R-HDG	
$1\frac{1}{2}x\frac{1}{2}x\frac{1}{12}$	MB130R-HDH	25	MZ130R-HDH	
$1\frac{1}{2}x\frac{3}{4}x\frac{1}{12}$	MB130R-HEG	25	MZ130R-HEG	
$1\frac{1}{2}x\frac{3}{4}x\frac{1}{12}$	MB130R-HEH	22	MZ130R-HEH	
$1\frac{1}{2}x1x1$	MB130R-HFF	25	MZ130R-HFF	
$1\frac{1}{2}x1x1\frac{1}{4}$	MB130R-HFG	22	MZ130R-HFG	
$1\frac{1}{2}x1x1\frac{1}{2}$	MB130R-HFH	20	MZ130R-HFH	
$1\frac{1}{2}x1x1\frac{1}{4}$	MB130R-HGG	18	MZ130R-HGG	
$1\frac{1}{2}x1x1\frac{1}{2}$	MB130R-HGH	17	MZ130R-HGH	
$1\frac{1}{2}x1x1\frac{1}{2}$	MB130R-HHD	17	MZ130R-HHD	
$1\frac{1}{2}x1x1\frac{3}{4}$	MB130R-HHE	17	MZ130R-HHE	
$1\frac{1}{2}x1x1\frac{1}{2}$	MB130R-HHF	17	MZ130R-HHF	

SIZE	BLACK	BAG	BOX	GALV.
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130-R, Reducing Tee, F x F x F (ISO B1)				

SIZE	BLACK	BAG	BOX	GALV.
continued from previous column.....				

SIZE	BLACK	BAG	BOX	GALV.
continued from previous column.....				
240, Reducing Socket, F x F (ISO M2)				

SIZE	BLACK	BAG	BOX	GALV.
continued from previous column.....				

SIZE	BLACK	BAG	BOX	GALV.
241, Hexagon Reducing Bush, M x F (ISO N4)				

$\frac{1}{4}x\frac{1}{8}$	MB241-BA	10	400	MZ241-BA
$\frac{3}{8}x\frac{1}{8}$	MB241-CA	10	400	MZ241-CA
$\frac{3}{8}x\frac{1}{4}$	MB241-CB	10	400	MZ241-CB
$\frac{1}{2}x\frac{1}{4}$	MB241-DB	10	350	MZ241-DB
$\frac{1}{2}x\frac{3}{8}$	MB241-DC	10	350	MZ241-DC
$\frac{3}{8}x\frac{1}{4}$	MB241-EB	10	200	MZ241-EB
$\frac{3}{8}x\frac{3}{8}$	MB241-EC	10	200	MZ241-EC
$\frac{3}{8}x\frac{1}{2}$	MB241-ED	10	200	MZ241-ED
$1x\frac{3}{8}$	MB241-FC	10	140	MZ241-FC
$1x\frac{1}{2}$	MB241-FD	10	140	MZ241-FD
$1x\frac{3}{4}$	MB241-FE	10	140	MZ241-FE
$1\frac{1}{4}x\frac{3}{8}$	MB241-GC	10	80	MZ241-GC
$1\frac{1}{4}x\frac{1}{2}$	MB241-GD	10	80	MZ241-GD
$1\frac{1}{4}x\frac{3}{4}$	MB241-GE	10	80	MZ241-GE
$1\frac{1}{4}x1$	MB241-GF	10	80	MZ241-GF
$1\frac{1}{2}x\frac{1}{2}$	MB241-HD	10	70	MZ241-HD
$1\frac{1}{2}x\frac{3}{8}$	MB241-HE	10	70	MZ241-HE
$1\frac{1}{2}x1$	MB241-HF	10	70	MZ241-HF
$1\frac{1}{2}x1\frac{1}{4}$	MB241-HG	10	70	MZ241-HG
$2x\frac{1}{2}$	MB241-ID	30	MZ241-ID	
$2x\frac{3}{4}$	MB241-IE	30	MZ241-IE	
$2x1$	MB241-IF	30	MZ241-IF	
$2x1\frac{1}{4}$	MB241-IG	30	MZ241-IG	
$2x1\frac{1}{2}$	MB241-IH	30	MZ241-IH	
$2\frac{1}{2}x1$	MB241-JF	20	MZ241-JF	
$2\frac{1}{2}x\frac{1}{4}$	MB241-JG	20	MZ241-JG	
$2\frac{1}{2}x\frac{1}{12}$	MB241-JH	20	MZ241-JH	
$2\frac{1}{2}x2$	MB241-JI	20	MZ241-JI	
$3x1$	MB241-KF	10	MZ241-KF	
$3x\frac{1}{4}$	MB241-KG	10	MZ241-KG	
$3x\frac{1}{2}$	MB241-KH	10	MZ241-KH	
$3x2$	MB241-KI	15	MZ241-KI	
$3x\frac{1}{2}$	MB241-KJ	15	MZ241-KJ	
$4x2$	MB241-LI	8	MZ241-LI	
$4x\frac{1}{2}$	MB241-LJ	8	MZ241-LJ	
$4x3$	MB241-LK	8	MZ241-LK	

continued in the next column.....

SIZE	BLACK	BAG	BOX	GALV.
continued in the next column.....				

SIZE	BLACK	BAG	BOX	GALV.
240, Reducing Socket, F x F (ISO M2)				

SIZE	BLACK	BAG	BOX	GALV.
continued in the next column.....				

SIZE	BLACK	BAG	BOX	GALV.
241, Hexagon Reducing Bush, M x F (ISO N4)				

$\frac{1}{4}x\frac{1}{8}$	MB241-BA	10	400	MZ241-BA
$\frac{3}{8}x\frac{1}{8}$	MB241-CA	10	400	MZ241-CA
$\frac{3}{8}x\frac{1}{4}$	MB241-CB	10	400	MZ241-CB
$\frac{1}{2}x\frac{1}{4}$	MB241-DB	10	350	MZ241-DB
$\frac{1}{2}x\frac{3}{8}$	MB241-DC	10	350	MZ241-DC
$\frac{3}{8}x\frac{1}{4}$	MB241-EB	10	200	MZ241-EB
$\frac{3}{8}x\frac{3}{8}$	MB241-EC	10	200	MZ241-EC
$\frac{3}{8}x\frac{1}{2}$	MB241-ED	10	200	MZ241-ED
$1x\frac{3}{8}$	MB241-FC	10	100	MZ241-FC
$1x\frac{1}{2}$	MB241-FD	10	90	MZ241-FD
$1x\frac{3}{4}$	MB241-FE	10	80	MZ241-FE
$1\frac{1}{4}x\frac{3}{8}$	MB241-GC	10	60	MZ241-GC
$1\frac{1}{4}x\frac{1}{2}$	MB241-GD	10	60	MZ241-GD

continued in the next column.....

SIZE	BLACK	BAG	BOX	GALV.

<tbl_r cells="1" ix="2" maxcspan="5" maxrspan="1" usedcols

Malleable Iron Fittings - Black & Galvanised

Allpex®

SIZE	BLACK	BAG	BOX	GALV.
245, Reducing Hexagon Nipple, M x M (ISO N8)				
				
1/4x1/8	MB245-BA	10	400	MZ245-BA
5/16x1/8	MB245-CA	10	400	MZ245-CA
5/16x1/4	MB245-CB	10	400	MZ245-CB
1/2x1/4	MB245-DB	10	250	MZ245-DB
1/2x3/8	MB245-DC	10	230	MZ245-DC
3/4x3/8	MB245-EC	10	140	MZ245-EC
3/4x1/2	MB245-ED	10	150	MZ245-ED
1x1/2	MB245-FD	10	100	MZ245-FD
1x3/4	MB245-FE	10	100	MZ245-FE
1 1/4x1/2	MB245-GD	10	60	MZ245-GD
1 1/4x3/4	MB245-GE	10	60	MZ245-GE
1 1/4x1	MB245-GF	10	50	MZ245-GF
1 1/2x3/4	MB245-HE		50	MZ245-HE
1 1/2x1	MB245-HF		50	MZ245-HF
1 1/2x1 1/4	MB245-HG		45	MZ245-HG
2x1	MB245-IF		25	MZ245-IF
2x1 1/4	MB245-IG		25	MZ245-IG
2x1 1/2	MB245-IH		25	MZ245-IH
2 1/2x2	MB245-JI		14	MZ245-JI
3x2 1/2	MB245-KJ		8	MZ245-KJ
270, Female Socket, F x F (ISO M2)				
				
1/8	MB270-A	10	400	MZ270-A
1/4	MB270-B	10	400	MZ270-B
5/16	MB270-C	10	250	MZ270-C
1/2	MB270-D	10	180	MZ270-D
3/4	MB270-E	10	110	MZ270-E
1	MB270-F	10	80	MZ270-F
1 1/4	MB270-G		45	MZ270-G
1 1/2	MB270-H		35	MZ270-H
2	MB270-I		20	MZ270-I
2 1/2	MB270-J		12	MZ270-J
3	MB270-K		9	MZ270-K
4	MB270-L		4	MZ270-L
280, Hexagon Nipple, M x M (ISO N8)				
				
1/8	MB280-A	10	400	MZ280-A
1/4	MB280-B	10	400	MZ280-B
5/16	MB280-C	10	300	MZ280-C
1/2	MB280-D	10	200	MZ280-D
3/4	MB280-E	10	130	MZ280-E
1	MB280-F	10	80	MZ280-F
1 1/4	MB280-G	10	40	MZ280-G
1 1/2	MB280-H		40	MZ280-H
2	MB280-I		20	MZ280-I
2 1/2	MB280-J		10	MZ280-J
3	MB280-K		8	MZ280-K
4	MB280-L		4	MZ280-L
290, Flanged Plug (ISO T9)				
				
1/8	MB290-A	10	400	MZ290-A
1/4	MB290-B	10	400	MZ290-B
5/16	MB290-C	10	400	MZ290-C
1/2	MB290-D	10	300	MZ290-D
continued in the next column.....				

SIZE	BLACK	BAG	BOX	GALV.
continued from previous column.....				
290, Flanged Plug (ISO T9)				
3/4	MB290-E	10	200	MZ290-E
1	MB290-F	10	120	MZ290-F
1 1/4	MB290-G	10	80	MZ290-G
1 1/2	MB290-H	10	60	MZ290-H
2	MB290-I		40	MZ290-I
2 1/2	MB290-J		20	MZ290-J
3	MB290-K		15	MZ290-K
4	MB290-L		8	MZ290-L
291, Plain Plug without Flange (ISO T8)				
				
1/8	MB291-A	10	400	MZ291-A
1/4	MB291-B	10	400	MZ291-B
5/16	MB291-C	10	400	MZ291-C
1/2	MB291-D	10	300	MZ291-D
3/4	MB291-E	10	200	MZ291-E
1	MB291-F	10	120	MZ291-F
1 1/4	MB291-G	10	80	MZ291-G
1 1/2	MB291-H	10	60	MZ291-H
2	MB291-I		40	MZ291-I
2 1/2	MB291-J		20	MZ291-J
3	MB291-K		15	MZ291-K
4	MB291-L		8	MZ291-L
300, End Cap (ISO T1)				
				
1/8	MB300-A	10	400	MZ300-A
1/4	MB300-B	10	400	MZ300-B
5/16	MB300-C	10	400	MZ300-C
1/2	MB300-D	10	280	MZ300-D
3/4	MB300-E	10	180	MZ300-E
1	MB300-F	10	130	MZ300-F
1 1/4	MB300-G	10	80	MZ300-G
1 1/2	MB300-H	10	60	MZ300-H
2	MB300-I		40	MZ300-I
2 1/2	MB300-J		25	MZ300-J
3	MB300-K		15	MZ300-K
4	MB300-L		8	MZ300-L
312, Backnut (ISO P4)				
				
1/4	MB312-B	10	400	MZ312-B
5/16	MB312-C	10	400	MZ312-C
1/2	MB312-D	10	400	MZ312-D
3/4	MB312-E	10	300	MZ312-E
1	MB312-F	10	200	MZ312-F
1 1/4	MB312-G	10	120	MZ312-G
1 1/2	MB312-H	10	90	MZ312-H
2	MB312-I	10	60	MZ312-I
2 1/2	MB312-J		35	MZ312-J
3	MB312-K		25	MZ312-K
4	MB312-L		12	MZ312-L
SIZE	BLACK	BAG	BOX	Union nut size
Male Pump Union				
				
3/4	MB4201047	2		1 1/2
1	MB4201057	2		1 1/2
1	MB4201058	2		2
1 1/4	MB4201068	2		2
Female Pump Union				
				
1 1/4	MB4101067	2		1 1/2
Note: Pump unions are supplied in combinations of union end and backnut. Please check the sizes while ordering. e.g.: MB4201047 consists of 3/4" male union + 1 1/2" union nut.				

SIZE	BLACK	BAG	BOX	GALV.	SIZE	BLACK	BAG	BOX	GALV.	SIZE	BLACK	BAG	BOX	GALV.
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Rapido range compression fittings

MZ770, Galvanised Iron Rapido Socket

Tube end x Tube end



MZ740, Galvanised Iron Rapido Female Coupler, Female Thread x Tube end



MZ746, Galvanised Iron Rapido Male Coupler, Male Thread x Tube end



½		5	50	MZ770-D
¾		5	25	MZ770-E
1		4	16	MZ770-F
1½		3	12	MZ770-G
1½		3	9	MZ770-H
2		2	6	MZ770-I
2½		1	4	MZ770-J
3		2		MZ770-K
4		1		MZ770-L

½		5	60	MZ740-D
¾		5	30	MZ740-E
1		4	20	MZ740-F
1¼		4	16	MZ740-G
1½		3	12	MZ740-H
2		2	6	MZ740-I
2½		2	6	MZ740-J
3		2		MZ740-K
4		1		MZ740-L

½		5	55	MZ746-D
¾		5	30	MZ746-E
1		4	20	MZ746-F
1¼		4	16	MZ746-G
1½		3	12	MZ746-H
2		2	6	MZ746-I
2½		2	6	MZ746-J
3		2		MZ746-K
4		1		MZ746-L

Pipe clips, Brackets, Hangers & Sundries

Pipe Clips (Malleable Iron & Galvanised)

Screw on Bracket



Single Rings, M10 tapped



Rectangular Back Plate, Female tap



¼	JMB10-B	25	400	JMZ10-B
¾	JMB10-C	25	250	JMZ10-C
½	JMB10-D	25	200	JMZ10-D
¾	JMB10-E	25	125	JMZ10-E
1	JMB10-F	25	60	JMZ10-F
1¼	JMB10-G	25	50	JMZ10-G
1½	JMB10-H	25	40	JMZ10-H
2	JMB10-I	25	25	JMZ10-I
2½	JMB10-J	1	5	JMZ10-J
3	JMB10-K	1	5	JMZ10-K
4	JMB10-L	1	3	JMZ10-L

¼	JMB14/10-B	100	450	JMZ14/10-B
¾	JMB14/10-C	50	350	JMZ14/10-C
½	JMB14/10-D	50	225	JMZ14/10-D
¾	JMB14/10-E	50	150	JMZ14/10-E
1	JMB14/10-F	25	125	JMZ14/10-F
1¼	JMB14/10-G	5	60	JMZ14/10-G
1½	JMB14/10-H	5	30	JMZ14/10-H
2	JMB14/10-I	5	30	JMZ14/10-I

10	JMB19RF-10	25	600	JMZ19RF-10
12	JMB19RF-12	25	400	JMZ19RF-12

Steel Pipe clips with lining



Steel Pipe Clips without lining



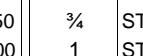
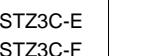
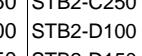
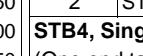
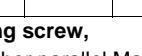
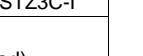
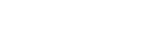
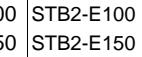
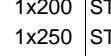
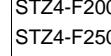
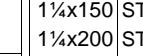
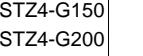
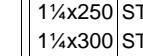
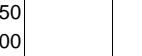
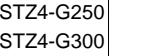
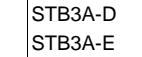
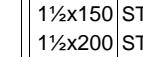
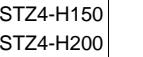
Zinc Plated Steel Threaded Rod (Steel studding) - 1meter lengths



¼				JSZ14R/10-B
¾				JSZ14R/10-C
½				JSZ14R/10-D
¾				JSZ14R/10-E
1				JSZ14R/10-F
1¼				JSZ14R/10-G
1½				JSZ14R/10-H
2				JSZ14R/10-I
2½				JSZ14R/10-J
3				JSZ14R/10-K
4				JSZ14R/10-L

¼				JSZ14/10-B
¾				JSZ14/10-C
½				JSZ14/10-D
¾				JSZ14/10-E
1				JSZ14/10-F
1¼				JSZ14/10-G
1½				JSZ14/10-H
2				JSZ14/10-I
2½				JSZ14/10-J
3				JSZ14/10-K
4				JSZ14/10-L

M6				JSZT6-100
M8				JSZT8-100
M10				JSZT10-100
M12				JSZT12-100
M16				JSZT16-100

SIZE	BLACK	BAG	BOX	GALV.	SIZE	BLACK	BAG	BOX	GALV.	SIZE	BLACK	BAG	BOX	GALV.
STB1, Socket (FixFi) (Parallel Thread)														
	STB1-B			STZ1-B					STZ3B-B				STZ22-B	
	STB1-C			STZ1-C		STB3B-C			STZ3B-C		STB22-C			STZ22-C
	STB1-D			STZ1-D		STB3B-D			STZ3B-D		STB22-D			STZ22-D
	STB1-E			STZ1-E		STB3B-E			STZ3B-E		STB22-E			STZ22-E
	STB1-F			STZ1-F		STB3B-F			STZ3B-F		STB22-F			STZ22-F
	STB1-G			STZ1-G		STB3B-G			STZ3B-G		STB22-G			STZ22-G
	STB1-H			STZ1-H		STB3B-H			STZ3B-H		STB22-H			STZ22-H
	STB1-I			STZ1-I		STB3B-I			STZ3B-I		STB22-I			STZ22-I
STB2, Connecting Piece, (Taper Male threads)														
	STB2-B100			STZ2-B100					STZ3C-B				STZ22-B	
	STB2-B150			STZ2-B150		STB3C-C			STZ3C-C		STB22-C			STZ22-C
	STB2-B200			STZ2-B200		STB3C-D			STZ3C-D		STB22-D			STZ22-D
	STB2-B250			STZ2-B250		STB3C-E			STZ3C-E		STB22-E			STZ22-E
	STB2-C100			STZ2-C100		STB3C-F			STZ3C-F		STB22-F			STZ22-F
	STB2-C150			STZ2-C150		STB3C-G			STZ3C-G		STB22-G			STZ22-G
	STB2-C200			STZ2-C200		STB3C-H			STZ3C-H		STB22-H			STZ22-H
	STB2-C250			STZ2-C250		STB3C-I			STZ3C-I		STB22-I			STZ22-I
	STB2-D100			STZ2-D100					STZ3C-B				STZ22-B	
	STB2-D150			STZ2-D150		STB3C-C			STZ3C-C		STB22-C			STZ22-C
	STB2-D200			STZ2-D200		STB3C-D			STZ3C-D		STB22-D			STZ22-D
	STB2-D250			STZ2-D250		STB3C-E			STZ3C-E		STB22-E			STZ22-E
	STB2-E100			STZ2-E100		STB3C-F			STZ3C-F		STB22-F			STZ22-F
	STB2-E150			STZ2-E150		STB3C-G			STZ3C-G		STB22-G			STZ22-G
	STB2-E200			STZ2-E200		STB3C-H			STZ3C-H		STB22-H			STZ22-H
	STB2-E250			STZ2-E250		STB3C-I			STZ3C-I		STB22-I			STZ22-I
	STB2-F100			STZ2-F100					STZ3C-B				STZ22-B	
	STB2-F150			STZ2-F150		STB3C-C			STZ3C-C		STB22-C			STZ22-C
	STB2-F200			STZ2-F200		STB3C-D			STZ3C-D		STB22-D			STZ22-D
	STB2-F250			STZ2-F250		STB3C-E			STZ3C-E		STB22-E			STZ22-E
	STB2-G150			STZ2-G150		STB3C-F			STZ3C-F		STB22-F			STZ22-F
	STB2-G200			STZ2-G200		STB3C-G			STZ3C-G		STB22-G			STZ22-G
	STB2-G250			STZ2-G250		STB3C-H			STZ3C-H		STB22-H			STZ22-H
	STB2-G300			STZ2-G300		STB3C-I			STZ3C-I		STB22-I			STZ22-I
	STB2-H150			STZ2-H150					STZ3C-B				STZ22-B	
	STB2-H200			STZ2-H200		STB3C-C			STZ3C-C		STB22-C			STZ22-C
	STB2-H250			STZ2-H250		STB3C-D			STZ3C-D		STB22-D			STZ22-D
	STB2-H300			STZ2-H300		STB3C-E			STZ3C-E		STB22-E			STZ22-E
	STB2-I150			STZ2-I150		STB3C-F			STZ3C-F		STB22-F			STZ22-F
	STB2-I200			STZ2-I200		STB3C-G			STZ3C-G		STB22-G			STZ22-G
	STB2-I250			STZ2-I250		STB3C-H			STZ3C-H		STB22-H			STZ22-H
	STB2-I300			STZ2-I300		STB3C-I			STZ3C-I		STB22-I			STZ22-I
STB3A, Running Nipple (Parallel Male Thread)														
	STB3A-B			STZ3A-B					STZ4-B100				STZ22-B	
	STB3A-C			STZ3A-C		STB4-B150			STZ4-B150		STB22-C			STZ22-C
	STB3A-D			STZ3A-D		STB4-B200			STZ4-B200		STB22-D			STZ22-D
	STB3A-E			STZ3A-E		STB4-B250			STZ4-B250		STB22-E			STZ22-E
	STB3A-F			STZ3A-F		STB4-C100			STZ4-C100		STB22-F			STZ22-F
	STB3A-G			STZ3A-G		STB4-C150			STZ4-C150		STB22-G			STZ22-G
	STB3A-H			STZ3A-H		STB4-C200			STZ4-C200		STB22-H			STZ22-H
	STB3A-I			STZ3A-I		STB4-C250			STZ4-C250		STB22-I			STZ22-I
	STB3A-B			STZ3A-B					STZ4-B100				STZ22-B	
	STB3A-C			STZ3A-C		STB4-B150			STZ4-B150		STB22-C			STZ22-C
	STB3A-D			STZ3A-D		STB4-B200			STZ4-B200		STB22-D			STZ22-D
	STB3A-E			STZ3A-E		STB4-B250			STZ4-B250		STB22-E			STZ22-E
	STB3A-F			STZ3A-F		STB4-C100			STZ4-C100		STB22-F			STZ22-F
	STB3A-G			STZ3A-G		STB4-C150			STZ4-C150		STB22-G			STZ22-G
	STB3A-H			STZ3A-H		STB4-C200			STZ4-C200		STB22-H			STZ22-H
	STB3A-I			STZ3A-I		STB4-C250			STZ4-C250		STB22-I			STZ22-I
	STB3A-B			STZ3A-B					STZ4-B100				STZ22-B	
	STB3A-C			STZ3A-C		STB4-B150			STZ4-B150		STB22-C			STZ22-C
	STB3A-D			STZ3A-D		STB4-B200			STZ4-B200		STB22-D			STZ22-D
	STB3A-E			STZ3A-E		STB4-B250			STZ4-B250		STB22-E			STZ22-E
	STB3A-F			STZ3A-F		STB4-C100			STZ4-C100		STB22-F			STZ22-F
	STB3A-G			STZ3A-G		STB4-C150			STZ4-C150		STB22-G			STZ22-G
	STB3A-H			STZ3A-H		STB4-C200			STZ4-C200		STB22-H			STZ22-H
	STB3A-I			STZ3A-I		STB4-C250			STZ4-C250		STB22-I			STZ22-I
	STB3A-B			STZ3A-B					STZ4-B100				STZ22-B	
	STB3A-C			STZ3A-C		STB4-B150			STZ4-B150		STB22-C			STZ22-C
	STB3A-D			STZ3A-D		STB4-B200			STZ4-B200		STB22-D			STZ22-D
	STB3A-E			STZ3A-E		STB4-B250			STZ4-B250		STB22-E			STZ22-E
	STB3A-F			STZ3A-F		STB4-C100			STZ4-C100		STB22-F			STZ22-F
	STB3A-G			STZ3A-G		STB4-C150			STZ4-C150		STB22-G			STZ22-G
	STB3A-H			STZ3A-H		STB4-C200			STZ4-C200		STB22-H			STZ22-H
<img alt="Image of STB3A-I running nipple" data-bbox="845 825 9														