



Product Catalogue



Brass Compression Fittings

www.melco.com.sg



Table of Contents

■ THE COMPANY

- 03 About Us
- 04 Awards & Accolades

■ BRASS COMPRESSION FITTINGS

- 05 Introduction
 - Features & Benefits
- 06 Product Range
- 14 Operating Parameters
- 15 Installation Instructions



MELCO

Quality Without Compromise.

Vision

“To be recognized as a global trademark of Quality and Reliability”

Mission

“To be a One-Stop centre delivering products, solutions and services of the highest quality to the plumbing industry”

ABOUT US

Since its inception in 1990, RFT Marketing have expanded and diversified over the past three decades to become a leading supplier in the plumbing industry. Equipped with extensive industry knowledge and supported by key manufacturers in Asia, Asia Pacific and Europe, we have access to international resources which includes world class manufacturing facilities and extensive research and development. This enables us to embark on a mission to explore new opportunities and gives our customers access to installation solutions that are optimized for efficiency, time and quality.

MELCO – the widely recognized brand identity of RFT Marketing, has been synonymous with the supply of quality products for various applications in the plumbing industry, and we have built its success on a continuous product development. Apart from producing traditional fittings, our range were expanded to include green technology – Press-fit solution which offers flame-free, quick and easy installation, and a leak proof joint.

With a heritage of quality and reliability, we provide construction professionals a complete solution of Connect and Control installations for use with copper, stainless steel and plastic components.

Awards & Accolades

For the past 20 years, RFT Marketing has been building its reputation for supplying quality products backed by first class customer service and unrivalled expertise. The continuous success of RFT Marketing is built firmly on 3 strategic pillars: Brand Management, Product

Development and Proactive Customer Relationship Management. This put us in good stead with our strategic partners and we are widely recognized as the undeniable market leader that has won numerous accolades for its brand and management.

EYA

In commendation of our founder's committed entrepreneurship and tenacious efforts towards the company, we were conferred with The Entrepreneur of the Year Award. His strong leadership values have successfully navigated RFT Marketing forward to today's business landscape.

This award is organized by the Association of Small & Medium Enterprises and the Rotary Club of Singapore.



SPBA

In recognition of our branding excellence, MELCO was awarded as a winner in the Singapore Prestige Brand Award in the category of Established Brand. This is an important milestone and elevated our brand to another level.

This award is organized by the Association of Small & Medium Enterprises and LianHe Zaobao Newspaper.



SINGAPORE 500/1000

In view of our outstanding financial performances, we are acknowledge as a SME 500 and S1000 company from 2010 - 2019.

The event is organized and ranked by DP Information Group.



ISO 9001

Since 2001, RFT Marketing is certified to be in conformance with ISO 9001. It reflects deeply on us as one who seek continuous implementation and improvement to our business processes.





MCF Series

MELCO Type 'A' non-manipulative brass compression fittings are manufactured in accordance with BS EN 1254-2 and 4 (formerly BS 864-2), in sizes 8mm to 76mm.

They are generally produced in dezincification resistant (DR) brass to meet certain water regulation requirement but they are also available in standard brass or gun-metal. MELCO Brass Compression fittings are

especially desirable in retrofit plumbing works where the use of heat is avoided.

It is also suitable for connecting different types of tube including copper / stainless steel tubing, in domestic and commercial applications such as plumbing, heating and gas distribution.

Features & Benefits

- ☑ Produced in Dezincification resistant Brass, Standard Brass or Gun-metal.
- ☑ Available in Chrome or Nickel plated finishing upon request.
- ☑ Suitable for connecting different types of tubing with compatible outer diameter.
- ☑ Available from sizes 8mm to 76mm.

Brass Compression Fittings

MCF101



CXC COUPLER

Product Size	
10mm x 10mm	35mm x 15mm
15mm x 15mm	35mm x 22mm
22mm x 22mm	35mm x 28mm
28mm x 28mm	42mm x 15mm
35mm x 35mm	42mm x 22mm
42mm x 42mm	42mm x 28mm
54mm x 54mm	42mm x 35mm
67mm x 67mm	54mm x 15mm
76mm x 76mm	54mm x 22mm
15mm x 08mm	54mm x 28mm
15mm x 10mm	54mm x 35mm
15mm x 12mm	54mm x 42mm
22mm x 15mm	67mm x 54mm
28mm x 15mm	76mm x 67mm
28mm x 22mm	

MCF101CP



CXC COUPLER (CP)

Product Size	
15mm x 15mm	15mm x 10mm
22mm x 22mm	15mm x 12mm
28mm x 28mm	22mm x 15mm
32mm x 32mm *	28mm x 15mm
15mm x 08mm	28mm x 22mm

* Polished finishing

MCF102



CXMI COUPLER

Product Size	
15mm x 1/2"	28mm x 1/2"
22mm x 3/4"	28mm x 3/4"
28mm x 1"	28mm x 1-1/4"
35mm x 1-1/4"	28mm x 1-1/2"
42mm x 1-1/2"	35mm x 1/2"
54mm x 2"	35mm x 3/4"
67mm x 2-1/2"	35mm x 1"
76mm x 3"	35mm x 1-1/2"
10mm x 1/2"	35mm x 2"
15mm x 3/8"	42mm x 1"
15mm x 3/4"	42mm x 2"
15mm x 1"	54mm x 1"
22mm x 1/2"	54mm x 1-1/2"
22mm x 1"	

MCF102CP



CXMI COUPLER (CP)

Product Size	
15mm x 1/2"	15mm x 3/4"
22mm x 3/4"	22mm x 1/2"
28mm x 1"	28mm x 1/2"
15mm x 3/8"	

MCF103



CXFI COUPLER

Product Size	
15mm x 1/2"	22mm x 1/2"
22mm x 3/4"	22mm x 1"
28mm x 1"	28mm x 1/2"
35mm x 1-1/4"	28mm x 3/4"
42mm x 1-1/2"	35mm x 1/2"
54mm x 2"	35mm x 3/4"
67mm x 2-1/2"	35mm x 1"
76mm x 3"	42mm x 1/2"
15mm x 3/4"	42mm x 3/4"
15mm x 1"	42mm x 1"

MCF103CP



CXFI COUPLER (CP)

Product Size	
15mm x 1/2"	15mm x 3/4"
22mm x 3/4"	22mm x 1/2"
28mm x 1"	28mm x 1/2"

MCF201



**CXC
ELBOW**

Product Size	
15mm x 15mm	35mm x 15mm
22mm x 22mm	35mm x 22mm
28mm x 28mm	35mm x 28mm
35mm x 35mm	42mm x 15mm
42mm x 42mm	42mm x 22mm
54mm x 54mm	42mm x 28mm
67mm x 67mm	42mm x 35mm
76mm x 76mm	54mm x 15mm
15mm x 10mm	54mm x 22mm
15mm x 12mm	54mm x 28mm
22mm x 15mm	54mm x 35mm
28mm x 15mm	54mm x 42mm
28mm x 22mm	

MCF201CP



**CXC
ELBOW (CP)**

Product Size	
15mm x 15mm	15mm x 10mm
22mm x 22mm	15mm x 12mm
28mm x 28mm	22mm x 15mm
32mm x 32mm *	28mm x 15mm
15mm x 08mm	28mm x 22mm

* Polished finishing

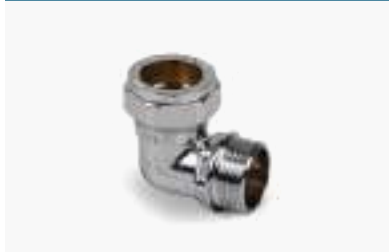
MCF202



**CXMI
ELBOW**

Product Size	
15mm x 1/2"	22mm x 1"
22mm x 3/4"	28mm x 1/2"
28mm x 1"	28mm x 3/4"
35mm x 1-1/4"	35mm x 1/2"
42mm x 1-1/2"	35mm x 1"
54mm x 2"	42mm x 1/2"
67mm x 2-1/2"	42mm x 1"
15mm x 3/4"	54mm x 1/2"
22mm x 1/2"	54mm x 1"

MCF202CP



**CXMI
ELBOW (CP)**

Product Size	
15mm x 1/2"	15mm x 3/4"
22mm x 3/4"	22mm x 1/2"
28mm x 1"	28mm x 1/2"

MCF203



**CXFI
ELBOW**

Product Size	
15mm x 1/2"	22mm x 1/2"
22mm x 3/4"	22mm x 1"
28mm x 1"	28mm x 1/2"
35mm x 1-1/4"	28mm x 3/4"
42mm x 1-1/2"	35mm x 1/2"
54mm x 2"	42mm x 1/2"
15mm x 3/4"	54mm x 1/2"

MCF203CP



**CXFI
ELBOW (CP)**

Product Size	
15mm x 1/2"	15mm x 3/4"
22mm x 3/4"	22mm x 1/2"
28mm x 1"	28mm x 1/2"

Brass Compression Fittings

MCF204



**CXFI FLANGE
ELBOW**

Product Size
15mm x 1/2"
22mm x 3/4"

MCF204CP



**CXFI FLANGE
ELBOW (CP)**

Product Size
15mm x 1/2"
22mm x 3/4"

MCF205



**45DEG CXC
ELBOW**

Product Size	
15mm	35mm
22mm	42mm
28mm	54mm

MCF206CP



**CXMI FLANGE
ELBOW (CP)**

Product Size
15mm x 3/4" *

* Polished finishing

MCF301



**CXCXC
TEE**

Product Size *	
15 x 15 x 15mm	35 x 35 x 15 mm
22 x 22 x 22mm	35 x 35 x 22mm
28 x 28 x 28mm	35 x 35 x 28mm
35 x 35 x 35mm	35 x 28 x 28mm
42 x 42 x 42mm	42 x 42 x 15mm
54 x 54 x 54mm	42 x 42 x 22mm
67 x 67 x 67mm	42 x 42 x 28mm
15 x 15 x 22mm	42 x 42 x 35mm
22 x 22 x 15mm	54 x 54 x 15mm
22 x 15 x 15mm	54 x 54 x 22mm
22 x 15 x 22mm	54 x 54 x 28mm
22 x 22 x 28mm	54 x 54 x 35mm
28 x 28 x 15mm	54 x 54 x 42mm
28 x 28 x 22mm	67 x 67 x 54mm
28 x 22 x 22mm	

* Sequence of sizes: Side x Side x Center
eg. 22 (side) x 22 (side) x 15mm (center)

MCF301CP



**CXCXC
TEE (CP)**

Product Size *	
15 x 15 x 15mm	22 x 15 x 22mm
22 x 22 x 22mm	22 x 22 x 15mm
28 x 28 x 28mm	28 x 28 x 15mm
15 x 15 x 22mm	28 x 28 x 22mm
22 x 15 x 15mm	

* Sequence of sizes: Side x Side x Center
eg. 22 (side) x 22 (side) x 15mm (center)

MCF302



**CXCXMI
TEE**

Product Size *	
15 x 15mm x 1/2"	22 x 22mm x 1/2"
22 x 22mm x 3/4"	28 x 28mm x 1/2"
28 x 28mm x 1"	35 x 35mm x 1/2"
35 x 35mm x 1-1/4"	42 x 42mm x 1/2"
42 x 42mm x 1-1/2"	54 x 54mm x 1/2"
54 x 54mm x 2"	

* Sequence of sizes: Side x Side x Center
eg. 22 (side) x 22mm (side) x 1/2" (center)

MCF302CP



CXCXMI TEE (CP)

Product Size *	
15 x 15mm x 1/2"	22 x 22mm x 1/2"
22 x 22mm x 3/4"	28 x 28mm x 1/2"

* Sequence of sizes: Side x Side x Center
eg. 22 (side) x 22mm (side) x 1/2" (center)

MCF303CP



CXCXFI TEE (CP)

Product Size *
15 x 15mm x 1/2"
22 x 22mm x 1/2"
28 x 28mm x 1/2"

* Sequence of sizes: Side x Side x Center
eg. 22 (side) x 22mm (side) x 1/2" (center)

MCF304CP



CXMIXC TEE (CP)

Product Size *
15mm x 1/2" x 15mm
22mm x 1/2" x 22mm
28mm x 1/2" x 28mm

* Sequence of sizes: Side x Side x Center
eg. 22mm (side) x 1/2" (side) x 22mm (center)

MCF303



CXCXFI TEE

Product Size *	
15 x 15mm x 1/2"	35 x 35mm x 1"
22 x 22mm x 3/4"	42 x 42mm x 1/2"
28 x 28mm x 1"	42 x 42mm x 1"
22 x 22mm x 1/2"	54 x 54mm x 1/2"
28 x 28mm x 1/2"	54 x 54mm x 1"
35 x 35mm x 1/2"	

* Sequence of sizes: Side x Side x Center
eg. 22 (side) x 22mm (side) x 1/2" (center)

MCF304



CXMIXC TEE

Product Size *
15mm x 1/2" x 15mm
22mm x 3/4" x 22mm
28mm x 1" x 28mm
22mm x 1/2" x 22mm
28mm x 1/2" x 28mm

* Sequence of sizes: Side x Side x Center
eg. 22mm (side) x 1/2" (side) x 22mm (center)

MCF305



CXFIXC TEE

Product Size *
15mm x 1/2" x 15mm
22mm x 3/4" x 22mm
28mm x 1" x 28mm
22mm x 1/2" x 22mm
28mm x 1/2" x 28mm

* Sequence of sizes: Side x Side x Center
eg. 22mm (side) x 1/2" (side) x 22mm (center)

Brass Compression Fittings

MCF305CP



**CXFIXC
TEE (CP)**

Product Size *
15mm x 1/2" x 15mm
22mm x 1/2" x 22mm
28mm x 1/2" x 28mm

* Sequence of sizes: Side x Side x Center
eg. 22mm (side) x 1/2" (side) x 22mm (center)

MCF306



**CXCXFI FLANGE
TEE**

Product Size *
15 x 15mm x 1/2"

* Sequence of sizes: Side x Side x Center
eg. 15 (side) x 15mm (side) x 1/2" (center)

MCF306CP



**CXCXFI FLANGE
TEE (CP)**

Product Size *
15 x 15mm x 1/2"

* Sequence of sizes: Side x Side x Center
eg. 15 (side) x 15mm (side) x 1/2" (center)

MCF401



**COMPRESSION
STOP END**

Product Size	
15mm	42mm
22mm	54mm
28mm	67mm
35mm	76mm

MCF401CP



**COMPRESSION
STOP END (CP)**

Product Size	
15mm	28mm
22mm	

MCF402



**MALE
PLUG**

Product Size	
1/2"	1-1/4"
3/4"	1-1/2"
1"	2"

MCF402CP



**MALE PLUG
(CP)**

Product Size
1/2"
3/4"
1"

MCF403



**FEMALE END
CAP**

Product Size	
3/8"	1-1/4"
1/2"	1-1/2"
3/4"	2"
1"	

MCF403CP



**FEMALE END
CAP (CP)**

Product Size
1/2"
3/4"
1"

MCF501



**MIXMI
NIPPLE**

Product Size	
1/4" x 1/4"	1" x 1/2"
1/2" x 1/2"	1" x 3/4"
3/4" x 3/4"	1-1/4" x 1/2"
1" x 1"	1-1/4" x 3/4"
1-1/4" x 1-1/4"	1-1/4" x 1"
1-1/2" x 1-1/2"	1-1/2" x 1/2"
2" x 2"	1-1/2" x 3/4"
2-1/2" x 2-1/2"	1-1/2" x 1"
3" x 3"	1-1/2" x 1-1/4"
4" x 4"	2" x 1/2"
3/8" x 1/4"	2" x 3/4"
1/2" x 1/4"	2" x 1"
1/2" x 3/8"	2" x 1-1/4"
3/4" x 3/8"	2" x 1-1/2"
3/4" x 1/2"	

MCF501CP



**MIXMI
NIPPLE (CP)**

Product Size	
1/2" x 1/2"	3/4" x 1/2"
3/4" x 3/4"	1" x 1/2"
1" x 1"	1" x 3/4"
1/2" x 3/8"	

MCF502



**MIXFI
BUSH**

Product Size	
1/2" x 1/4"	2" x 1/2"
1/2" x 3/8"	2" x 3/4"
3/4" x 1/2"	2" x 1"
1" x 1/2"	2" x 1-1/4"
1" x 3/4"	2" x 1-1/2"
1-1/4" x 1/2"	2-1/2" x 2"
1-1/4" x 3/4"	3" x 2"
1-1/4" x 1"	3" x 2-1/2"
1-1/2" x 1/2"	4" x 2"
1-1/2" x 3/4"	4" x 2-1/2"
1-1/2" x 1"	4" x 3"
1-1/2" x 1-1/4"	

MCF503



**MIXFI EXTENSION
PIECE**

Product Size	
1/2" x 1"	1/2" x 4"
1/2" x 2"	3/4" x 2"
1/2" x 3"	

MCF503CP



**MIXFI EXTENSION
PIECE (CP)**

Product Size	
1/2" x 1"	1/2" x 3"
1/2" x 2"	1/2" x 4"

MCF504



**FIXFI
SOCKET**

Product Size	
1/2" x 1/2"	1-1/4" x 1"
3/4" x 3/4"	1-1/2" x 1/2"
1" x 1"	1-1/2" x 3/4"
1-1/4" x 1-1/4"	1-1/2" x 1"
1-1/2" x 1-1/2"	1-1/2" x 1-1/4"
2" x 2"	2" x 1/2"
3/4" x 1/2"	2" x 3/4"
1" x 1/2"	2" x 1"
1" x 3/4"	2" x 1-1/4"
1-1/4" x 1/2"	2" x 1-1/2"
1-1/4" x 3/4"	

Brass Compression Fittings

MCF505



**FIXFI
ELBOW**

Product Size	
1/2" x 1/2"	1-1/4" x 1-1/4"
3/4" x 3/4"	1-1/2" x 1-1/2"
1" x 1"	2" x 2"

MCF506



**MIXFI
ELBOW**

Product Size
1/2" x 1/2"

MCF507



**FIXFIXFI
TEE**

Product Size *	
1/2" x 1/2" x 1/2"	1-1/2" x 1-1/2" x 1-1/2"
3/4" x 3/4" x 3/4"	2" x 2" x 2"
1" x 1" x 1"	2" x 2" x 1/2"
1-1/4" x 1-1/4" x 1-1/4"	

* Sequence of sizes: Side x Side x Center
eg. 2" (side) x 2" (side) x 1/2" (center)

MCF508



**MIXMIXFI
TEE**

Product Size *
2" x 2" x 1/2"

* Sequence of sizes: Side x Side x Center
eg. 2" (side) x 2" (side) x 1/2" (center)

MCF509



**HOSE
ADAPTOR**

Product Size	
3/8" bsp x 08mm	3/4" bsp x 12mm
1/2" bsp x 08mm	1" bsp x 10mm
1/2" bsp x 10mm	1" bsp x 12mm
3/4" bsp x 10mm	1" bsp x 19mm

MCF510



**FLANGE PN16
FEMALE THREAD**

Product Size	
2"	4"
2-1/2"	6"
3"	

MCF601



**MIXFI
FERRULE**

Product Size	
3/4" x 3/4"	1" x 1"

MCF602



**FIXFI UNION
FLAT SEAT**

Product Size	
1/2" x 1/2"	1-1/4" x 1-1/4"
3/4" x 3/4"	1-1/2" x 1-1/2"
1" x 1"	2" x 2"

MCF603



**CXC TANK
CONNECTOR**

Product Size	
15mm	35mm
22mm	42mm
28mm	54mm

MCF604



MIXMI TANK CONNECTOR

Product Size	
1/2" x 1/2"	1-1/4" x 1-1/4"
3/4" x 3/4"	1-1/2" x 1-1/2"
1" x 1"	2" x 2"

MCF605



MIXFI TANK CONNECTOR

Product Size	
1/2" x 1/2"	1-1/4" x 1-1/4"
3/4" x 3/4"	1-1/2" x 1-1/2"
1" x 1"	2" x 2"

MCF606



FLANGE CONNECTOR (C.I PIPE)

Product Size
42mm x 61mm
54mm x 61mm

MCF701



COMPRESSION NUT

Product Size	
08mm	35mm
10mm	42mm
12mm	54mm
15mm	67mm
22mm	76mm
28mm	

MCF701CP



COMPRESSION NUT (CP)

Product Size	
08mm	15mm
10mm	22mm
12mm	28mm

MCF702



COMPRESSION RING

Product Size	
08mm	35mm
10mm	42mm
12mm	54mm
15mm	67mm
22mm	76mm
28mm	

MCF703



LOCK NUT

Product Size	
1/2"	1-1/4"
3/4"	1-1/2"
1"	2"

Brass Compression Fittings

MCF704



CXC REDUCING SET

Product Size	
22mm x 15mm	42mm x 28mm
28mm x 15mm	42mm x 35mm
28mm x 22mm	54mm x 15mm
35mm x 15mm	54mm x 22mm
35mm x 22mm	54mm x 28mm
35mm x 28mm	54mm x 35mm
42mm x 15mm	54mm x 42mm
42mm x 22mm	

Operating Parameters

The maximum operating temperatures and pressures are shown in Table 1, based on BS EN 1254-2.

COPPER TUBE			
For use with	Tube sizes	Temps not exceeding	Max working pressures
	Ø mm	°C	Bar
Potable Water or Light Mineral Oils	6 to 54	30	16
		65	10
		95	7
		110	6
	66.7 to 108	30	10
		65	6
LPG, Natural Gas	8 to 28	30	1
Compressed Air	8 to 28	30	7
Solar	12 to 28	200	10

Table 1

PREPARATION

Select the correct size of tube and fitting for the job. Ensure that both are clean, in good condition and free from damage and imperfections. If the tube is oval or damaged, use re-rounding tool.



1 Cut the tube square using a rotary tube cutter. (Fig. 1)



2 Remove any burr from the inside and outside of the tube ends using a fine toothed file. (Fig. 2)



3a There are two methods of assembling a compression joint.

1. Without removing the compression nut and compression ring, insert the tube firmly into the compression fitting. Ensure that the compression ring seats centrally and that the tube makes firm contact with the tube stop in the body of the fitting (Fig. 3a)
2. Remove the compression nut and compression ring, then put the nut and then the ring on the tube. Insert the tube end up to the fitting's tube stop. Slide the ring and the nut down to the fitting body (Fig. 3b)



4 Tighten the nut using your fingers until tight. (Fig. 4)



5 Tighten the compression nut further using spanners; a second spanner must be used to prevent the fitting from rotating. (Fig. 5)

Refer to Table 2 for the correct number of turns to make the joint.

Material	Tube/Pipe Specification	Size	6mm to 18mm	22mm	28mm to 54mm
Copper	EN1057 - R250 (Half Hard)	No. of Turns	1-1/4	1	3/4
	EN1057 - R290 (Hard)	No. of Turns	1	3/4	1/2
Stainless Steel	EN10312 (BS4127)	Size	6mm to 22mm	28mm	35mm to 54mm
		No. of Turns	3/4	1/2	1/2
Plastic Pipe	Polybutylene (PB) and Cross Linked Polyethylene (PE-X) *	Size	10mm to 28mm		
		No. of Turns	1-1/2		

* For use with appropriate pipe support liner as recommended by the pipe manufacturer

Table 2

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