



Product Catalogue



# Copper Endfeed Fittings

[www.melco.com.sg](http://www.melco.com.sg)

---



# Table of Contents

## ■ THE COMPANY

---

- 03 About Us
- 04 Awards & Accolades

## ■ COPPER ENDFEED FITTINGS

---

- 05 Introduction
  - Features & Benefits
- 06 Product Range
- 08 Operating Parameters
- 09 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.





## MEF Series

MELCO Endfeed fittings are manufactured in accordance with BS EN 1254-1, in sizes 15mm to 159mm. It is designed for soft and hard solder applications, and suitable for connecting copper tubes in accordance with BS EN 1057. Most fittings in the series are manufactured from copper and gunmetal thereby being immune to dezincification.

MELCO Endfeed fittings are a simple and cost effective method of jointing copper tube. Due to its compact design, it makes handling and installation easy. It is suitable for domestic and commercial applications such as plumbing, heating and gas distribution.

### Features & Benefits

---

- ☑ Cost effective method of jointing copper tube.
- ☑ Robust and reliable joint.
- ☑ Minimum friction loss.
- ☑ Available from sizes 15mm to 159mm.
- ☑ Suitable for connecting copper tube to BS EN 1057.

## Copper Endfeed Fittings

### MEF101



**SOCKET**

Product Size	
15mm	54mm
22mm	67mm
28mm	76mm
35mm	108mm
42mm	159mm

### MEF101P



**FITTING  
REDUCER M/F**

Product Size	
22mm x 15mm	67mm x 22mm
28mm x 15mm	67mm x 28mm
28mm x 22mm	67mm x 35mm
35mm x 15mm	67mm x 42mm
35mm x 22mm	67mm x 54mm
35mm x 28mm	76mm x 28mm
42mm x 15mm	76mm x 35mm
42mm x 22mm	76mm x 42mm
42mm x 28mm	76mm x 54mm
42mm x 35mm	76mm x 67mm
54mm x 15mm	108mm x 54mm
54mm x 22mm	108mm x 67mm
54mm x 28mm	108mm x 76mm
54mm x 35mm	159mm x 76mm
54mm x 42mm	159mm x 108mm

### MEF102



**SOLDERXMI  
ADAPTOR**

Product Size	
15mm x 1/2"	67mm x 2-1/2"
22mm x 3/4"	76mm x 3"
28mm x 1"	108mm x 4"
35mm x 1-1/4"	22mm x 1/2"
42mm x 1-1/2"	28mm x 1/2"
54mm x 2"	

### MEF101R



**REDUCING  
SOCKET F/F**

Product Size	
22mm x 15mm	67mm x 22mm
28mm x 15mm	67mm x 28mm
28mm x 22mm	67mm x 35mm
35mm x 15mm	67mm x 42mm
35mm x 22mm	67mm x 54mm
35mm x 28mm	76mm x 28mm
42mm x 15mm	76mm x 35mm
42mm x 22mm	76mm x 42mm
42mm x 28mm	76mm x 54mm
42mm x 35mm	76mm x 67mm
54mm x 15mm	108mm x 54mm
54mm x 22mm	108mm x 67mm
54mm x 28mm	108mm x 76mm
54mm x 35mm	159mm x 76mm
54mm x 42mm	159mm x 108mm

### MEF101F



**FLANGE SOCKET**

Product Size	
54mm	108mm
67mm	159mm
76mm	

### MEF103



**SOLDERXFI  
ADAPTOR**

Product Size	
15mm x 1/2"	54mm x 2"
22mm x 3/4"	67mm x 2-1/2"
28mm x 1"	76mm x 3"
35mm x 1-1/4"	108mm x 4"
42mm x 1-1/2"	

### MEF201



**90DEG ELBOW**

Product Size	
15mm	54mm
22mm	67mm
28mm	76mm
35mm	108mm
42mm	159mm

### MEF202



**SOLDERXMI ELBOW**

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

### MEF205



**45DEG ELBOW**

Product Size	
15mm	54mm
22mm	67mm
28mm	76mm
35mm	108mm
42mm	159mm

### MEF201R



**90DEG REDUCING ELBOW**

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

### MEF203



**SOLDERXFI ELBOW**

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

### MEF301



**EQUAL TEE**

Product Size	
15mm	54mm
22mm	67mm
28mm	76mm
35mm	108mm
42mm	159mm

## Copper Endfeed Fittings

### MEF301R



#### REDUCING TEE

Product Size *	
15 x 15 x 22mm	54 x 54 x 15mm
22 x 22 x 15mm	54 x 54 x 22mm
22 x 15 x 15mm	54 x 54 x 28mm
22 x 15 x 22mm	54 x 54 x 35mm
22 x 22 x 28mm	54 x 54 x 42mm
28 x 28 x 15mm	67 x 67 x 15mm
28 x 15 x 15mm	67 x 67 x 22mm
28 x 15 x 22mm	67 x 67 x 28mm
28 x 15 x 28mm	67 x 67 x 35mm
28 x 28 x 22mm	67 x 67 x 42mm
28 x 22 x 15mm	67 x 67 x 54mm
28 x 22 x 22mm	76 x 76 x 15mm
28 x 22 x 28mm	76 x 76 x 22mm
28 x 28 x 35mm	76 x 76 x 28mm
35 x 35 x 15mm	76 x 76 x 35mm
35 x 35 x 22mm	76 x 76 x 42mm
35 x 35 x 28mm	76 x 76 x 54mm
35 x 28 x 22mm	76 x 76 x 67mm
35 x 28 x 28mm	108 x 108 x 42mm
35 x 28 x 35mm	108 x 108 x 54mm
42 x 42 x 15mm	108 x 108 x 67mm
42 x 42 x 22mm	108 x 108 x 76mm
42 x 42 x 28mm	159 x 159 x 76mm
42 x 42 x 35mm	159 x 159 x 108mm

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

### MEF305



#### SOLDER/FIX/SOLDER TEE

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)

### MEF601



#### FLANGE PN16 (SOLDER)

Product Size	
54mm	108mm
67mm	159mm
76mm	

### MEF401



#### END CAP

Product Size	
15mm	54mm
22mm	67mm
28mm	76mm
35mm	108mm
42mm	159mm

## Operating Parameters

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

COPPER TUBE			
When braze with	Tube sizes	Temps not exceeding	Max working pressures
	Ø mm	°C	Bar
Copper/Phosphorus filler rod	6 to 28	110	16
	35 to 108		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.



Ensure that the tube and fittings are size compatible. (Fig. 1)



Ensure that the tube end is cut square and remains round. (Fig. 2)



Remove internal and external burrs from the tube. (Fig. 3)



Clean the end of the tube with a cleaning pad or wire wool. Ensure all oil, grease, and heavy oxides are removed. (Fig. 4)



Clean the socket of the fitting with a brush or wire wool. (Fig. 5)



Immediately after cleaning, apply flux to the mating surfaces. (Fig. 6)



Insert the tube up against the stop of the fittings. A small twist will help spread the flux over the two surfaces. Remove any excess flux.

Heat the assembled joint evenly on all sides to 700 - 750 °C (red heat in poor daylight). (Fig. 7)



Add the filler rod to the mouth of the fitting, allowing the brazing alloy to melt and flow into the annular gap. (Fig. 8)



Allow the joint to cool and wipe any residues. Flush the system thoroughly at the earliest opportunity. (Fig. 9)

**RFT MARKETING PTE LTD**

No. 61 Kaki Bukit Avenue 1  
#01-22 Shun Li Industrial Park  
Singapore 417943

Tel: + 65 6846 1113 Fax: + 65 6842 1113

Email: [sales@rft.com.sg](mailto:sales@rft.com.sg)

Website: [www.rft.com.sg](http://www.rft.com.sg)

