



水務署
Water Supplies Department

總部 Headquarters

香港灣仔告士打道七號入境事務大樓 48 樓

48/F, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

本署檔號 (8) in WSD 3321/2022 T/J(644/2022)
Our ref.
來函檔號
Your ref.

電話
Tel.
傳真
Fax. : 2824 0578

11 October 2022

**Approval of “E-CO” Ductile Iron Fittings
(General Acceptance No. C20220931)**

Your letter ref. WSD-ECO-016 dated 1 June 2022 and subsequent submissions received by this department up to 14 September 2022 refer.

Having considered the test report ref. BC-SUMMARY-2022-042 issued on 21 June 2022 by Castco Testing Centre Limited and WRAS certificate, this Authority accepts that the fittings described below comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer: Liaoning Ever Metal Forming Tech Co Ltd

Country of Origin: the Mainland of China

Brand: E-CO

Details of Fittings: Ductile iron fittings with epoxy powder coating under WRAS approval no. 2103504

Description	Size (mm)
Double Socket 90° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Socket 45° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Socket 22.5° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600

Description	Size (mm)
Double Socket 11.25° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Flange 90° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Flange 45° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Flange 22.5° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Flange 11.25° Bend	80, 100, 150, 200, 250, 300, 400, 450, 600
Double Flange Duckfoot 90° Bend	80, 100, 150, 200, 250, 300
All Socket Tee	80x80x80, 100x100x80, 100x100x100, 150x150x80, 150x150x100, 150x150x150, 200x200x80, 200x200x100, 200x200x150, 200x200x200, 250x250x80, 250x250x100, 250x250x150, 250x250x200, 250x250x250, 300x300x80, 300x300x100, 300x300x150, 300x300x200, 300x300x250, 300x300x300, 400x400x400, 450x450x450, 600x600x600
Double Socket Flanged Branch Tee	80x80x80, 100x100x80, 100x100x100, 150x150x80, 150x150x100, 150x150x150, 200x200x80, 200x200x100, 200x200x150, 200x200x200, 250x250x80, 250x250x100, 250x250x150, 250x250x200, 250x250x250, 300x300x100, 300x300x150, 300x300x200, 300x300x250, 300x300x300, 400x400x100, 400x400x150, 400x400x200, 400x400x250, 400x400x300, 400x400x400, 450x450x100, 450x450x150, 450x450x200, 450x450x250, 450x450x300, 450x450x400, 450x450x450, 600x600x150, 600x600x200, 600x600x250, 600x600x300, 600x600x400, 600x600x450, 600x600x600
All Flange Tee	80x80x80, 100x100x80, 100x100x100, 150x150x80, 150x150x100, 150x150x150, 200x200x80, 200x200x100, 200x200x150, 200x200x200, 250x250x80, 250x250x100, 250x250x150, 250x250x200, 250x250x250, 300x300x100, 300x300x150, 300x300x200, 300x300x250, 300x300x300, 400x400x100, 400x400x150, 400x400x200, 400x400x250, 400x400x300, 400x400x400, 450x450x100, 450x450x150, 450x450x200, 450x450x250, 450x450x300, 450x450x400, 450x450x450, 600x600x150, 600x600x200, 600x600x250, 600x600x300, 600x600x400, 600x600x450, 600x600x600

Description	Size (mm)
Double Socket Flange Branch Invert Tee	200x200x150, 250x250x150, 250x250x200, 300x300x150, 300x300x200, 300x300x250, 400x400x150, 400x400x200, 400x400x250, 400x400x300, 450x450x150, 450x450x200, 450x450x250, 450x450x300, 600x600x150, 600x600x200, 600x600x250, 600x600x300
Double Socket Taper	100x80, 150x80, 150x100, 200x100, 200x150, 250x100, 250x150, 250x200, 300x100, 300x150, 300x200, 300x250, 400x100, 400x150, 400x200, 400x250, 400x300, 450x100, 450x150, 450x200, 450x250, 450x300, 450x400, 600x150, 600x200, 600x250, 600x300, 600x400, 600x450
Double Flange Taper	100x80, 150x80, 150x100, 200x80, 200x100, 200x150, 250x100, 250x150, 300x150, 300x200, 300x250, 400x200, 400x250, 400x300, 450x250, 450x300, 450x400, 600x300, 600x400, 600x450

Body Markings:

For Double Socket Bend:

E-CO BS EN 545 DI K12 size x angle

For Double Flange Bend:

E-CO BS EN 545 DI K12 PN16 size x angle

For All Socket Tee and Double Socket Taper:

E-CO BS EN 545 DI K12 size x size

For Others:

E-CO BS EN 545 DI K12 PN16 size x size

Expiry Date:

31 March 2026

This Authority hereby permits the use of the above fittings in fresh water plumbing systems, flushing water plumbing systems and fresh water fire services systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fittings to be installed shall be replicas of the samples as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in the water supply systems mentioned above.

For the use of the fittings in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Ms Winnie LO at tel. no. 3583 4086.

Yours faithfully,



(YAU Hau Yin)
for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue
 ME/MC] - with soft copy only



Double Flange 90° Bend



Double Flange 45° Bend



Double Flange 22.5° Bend



Double Flange 11.25° Bend



Double Flange Duckfoot
90° Bend



All Flange Tee



Double Socket Flanged
Branch Tee



Double Flanged Taper



Double Socket 90° Bend



Double Socket 45° Bend



Double Socket 22.5°Bend



Double Socket 11.25° Bend



Double Socket Taper



All Socket Tee



Double Socket Flanged Branch Invert Tee