



水務署
Water Supplies Department

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檔號
Reference

(2) in WSD 3321/2025 T/J(1072/2025)

12 February 2026

**Approval of “PHW” Ductile Iron Fittings
(General Acceptance No. ZC20260107)**

Your E-Application [file-id: ETJ-GA-20251015-320] dated 15 October 2025 and subsequent submissions received by this department up to 19 January 2026 refer.

Having considered the test reports ref. BC-SUMMARY-2025-410 issued on 13 November 2025 by Castco Testing Centre Ltd. & ref. AGA50281A issued on 22 December 2025 by ETS-Testconsult Ltd. 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: Chinese Mainland

Brand: PHW

Details of Fittings: Ductile iron fittings with internal cement mortar lining under WRAS approval no. 2207523

Description	Size (mm)
Double Flanged 90° Bend PN16	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600



Description	Size (mm)
Double Flanged 45° Bend PN16	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
Double Flanged 22.5° Bend PN16	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
Double Flanged 11.25° Bend PN16	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
Double Flanged 90° Duckfoot Bend PN16	80, 100, 150, 200
Double Flanged 90° Large Radius Bend PN16	80, 100, 150, 200
Double Socket 90° Bend	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
Double Socket 45° Bend	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
Double Socket 22.5° Bend	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
Double Socket 11.25° Bend	80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600
All Flanged Tee PN16	80x80x50, 80x80x65, 80x80x80, 100x100x50, 100x100x65, 100x100x80, 100x100x100, 150x150x50, 150x150x65, 150x150x80, 150x150x100, 150x150x150, 200x200x80, 200x200x100, 200x200x150, 200x200x200, 250x250x80, 250x250x100, 250x250x150, 250x250x200, 250x250x250, 300x300x80, 300x300x100, 300x300x150, 300x300x200, 300x300x250, 300x300x300, 350x350x350, 400x400x400, 450x450x450, 500x500x500, 600x600x600
Double Socket Tee with Flanged Branch PN16	80x80x80, 100x100x100, 150x150x150, 200x200x150, 200x200x200
All Flanged Radial Tee PN16	80x80x80, 100x100x100, 150x150x150
All Socket Tee	80x80x80, 100x100x80, 100x100x100, 150x150x80, 150x150x100, 150x150x150, 200x200x80, 200x200x100, 200x200x150, 200x200x200, 250x250x100, 250x250x150, 250x250x200, 250x250x250, 300x300x100, 300x300x150, 300x300x200, 300x300x250, 300x300x300, 350x350x350, 400x400x400, 450x450x450, 500x500x500, 600x600x600
Double Flanged Taper PN16	80x50, 80x65, 100x50, 100x65, 100x80, 150x50, 150x65, 150x80, 150x100, 200x80, 200x100, 200x150, 250x80, 250x100, 250x150, 250x200, 300x100, 300x150, 300x200, 300x250, 350x300, 400x300, 450x400, 600x450
Double Flanged Flat Taper PN16	80x50, 80x65, 100x50, 100x65, 100x80, 150x80, 150x100, 200x100, 200x150
Double Socket Taper	100x80, 150x80, 150x100, 200x80, 200x100, 200x150, 250x80, 250x100, 250x150, 250x200, 300x200, 300x250

Body Markings:

For Double Flanged Bends:

PHW BS EN 545 DI K12 PN16 size x angle

For Double Socket Bends:

PHW BS EN 545 DI K12 size x angle

For All Socket Tee:

PHW BS EN 545 DI K14 size x size

For Double Flanged Taper and Flat Taper:

PHW BS EN 545 DI K12 PN16 size x size

For Double Socket Taper:

PHW BS EN 545 DI K12 size x size

For Others:

PHW BS EN 545 DI K14 PN16 size x size

Expiry Date:

11 February 2031

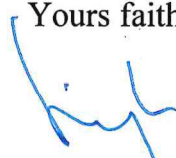
This Authority hereby permits the use of the above fittings in fresh water plumbing systems, flushing water plumbing systems and fresh water fire services systems subject to full adherence to Waterworks installation requirements.

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 Mr Albert CHOW at tel. no. 3583 4086.

Yours faithfully,



(CHAN Kwok Leung, Douglas)
for Director of Water Supplies

Encl.

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

General Acceptance No. ZC20260107



Double Flanged 90° Bend
PN16



Double Flanged 45° Bend
PN16



Double Flanged 22.5° Bend
PN16



Double Flanged 11.25° Bend
PN16



Double Flanged 90° Duckfoot
Bend PN16



Double Flanged 90° Large
Radius Bend PN16



Double Socket 90° Bend



Double Socket 45° Bend



Double Socket 22.5° Bend



Double Socket 11.25° Bend



All Flanged Tee PN16



Double Socket Tee with
Flanged Branch PN16



All Flanged Radial Tee PN16



All Socket Tee



Double Flanged Taper PN16



Double Flanged Flat Taper
PN16



Double Socket Taper