

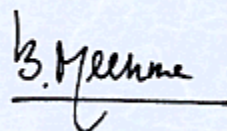
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Issued	01-07-2008	Dated	--
Valid until	n.a.		

product certificate  
**3G Metric™ Clamp fittings**

Based on pre-certification tests as well as periodic inspections by Kiwa, the products referred to in this certificate and marked with the Kiwa-mark as indicated under 'Marking', supplied by

**Philmac Pty Ltd**

may, on delivery, be relied upon to comply with the Kiwa evaluation guideline BRL-K534 "Clamp fittings for polyethylene piping for use of drinking water".



ing. B. Meekma  
Director Certification and Inspection, Kiwa N.V.

This certificate is issued in accordance with the Kiwa-Regulations for Product Certification.

This certificate consists of 6 pages.  
Publication of the certificate is allowed.

\*) This is a translation. Only the Dutch text is legally binding.

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## 3G Metric™ Clamp fittings

### PRODUCT SPECIFICATION

#### Toxicological requirements

##### Approval:

This product is approved on the basis of the requirements set in the "Regeling materialen en chemicaliën leidingwatervoorziening" ("Regulation Materials and Chemicals for Drinking Water Supplies"; published in the Staatscourant).

##### ATA criteria:

The ATA product certification is based on two main criteria. It should permanently comply with:

- The product recipe approved during the assessment procedure. The recipe is laid down in the for confidentiality reasons undisclosed appendix 1A to the certification agreement K46758 This recipe is not to be changed without prior approval by Kiwa according to the Kiwa-ATA-approval procedure;
- Specific ATA-product requirements, laid down in appendix 1A to the certification agreement K46758. For confidentiality reasons this appendix 1A is not public.

#### General

Clamp fittings according to evaluation guideline BRL-K 534 "Clamp fittings made for polyethylene piping for use of drinking water".

#### Specification

The dimensions and types given in the table below are part of this product certificate.

Types	Dimensions	Typenumber	Pressure Class
			PN 16
Joiners (Metric X Metric)	Ø 16 mm x 16 mm	99211100	x
	Ø 20 mm x 20 mm	99212200	x
	Ø 25 mm x 25 mm	99213300	x
	Ø 32 mm x 32 mm	99214400	x
	Ø 40 mm x 40 mm	99215500	x
	Ø 50 mm x 50 mm	99216600	x
	Ø 63 mm x 63 mm	99217700	x
Reducing Joiners ((Metric X Metric)	Ø 20 mm x 16 mm	99212100	x
	Ø 25 mm x 16 mm	99213100	x
	Ø 25 mm x 20 mm	99213200	x
	Ø 32 mm x 20 mm	99214200	x
	Ø 32 mm x 25 mm	99214300	x
	Ø 40 mm x 25 mm	99215300	x
	Ø 40 mm x 32 mm	99215400	x
	Ø 50 mm x 25 mm	99216300	x
	Ø 50 mm x 32 mm	99216400	x
	Ø 50 mm x 40 mm	99216500	x
	Ø 63 mm x 32 mm	99217400	x
	Ø 63 mm x 40 mm	99217500	x
	Ø 63 mm x 50 mm	99217600	x
End Connectors (Metric X MI BSP)	Ø 16 mm x ½ "	99221100	x

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	Ø 16 mm x ¼ "	99221200	x
	Ø 20 mm x ½ "	99222100	x
	Ø 20 mm x ¾ "	99222200	x
	Ø 20 mm x 1 "	99222300	x
	Ø 25 mm x ½ "	99223100	x
	Ø 25 mm x ¾ "	99223200	x
	Ø 25 mm x 1 "	99223300	x
	Ø 32 mm x ¾ "	99224200	x
	Ø 32 mm x 1 "	99224300	x
	Ø 32 mm 1-¼ "	99224400	x
	Ø 32 mm x 1-½ "	99224500	x
	Ø 40 mm x 1 "	99225300	x
	Ø 40 mm x 1-¼ "	99225400	x
	Ø 40 mm x 1-½ "	99225500	x
	Ø 40 mm x 2 "	99225600	x
	Ø 50 mm x 1-½ "	99226500	x
	Ø 50 mm x 2 "	99226600	x
	Ø 63 mm x 1-½ "	99227500	x
	Ø 63 mm x 2 "	99227600	x
End Connectors ( Metric X FI BSP)	Ø 16 mm x ½ "	99281100	x
	Ø 16 mm x ¾ "	99281200	x
	Ø 20 mm x ½ "	99282100	x
	Ø 20 mm x ¾ "	99282200	x
	Ø 20 mm x 1 "	99282300	x
	Ø 25 mm x ½ "	99283100	x
	Ø 25 mm x ¾ "	99283200	x
	Ø 25 mm x 1 "	99283300	x
	Ø 32 mm x ¾ "	99284200	x
	Ø 32 mm x 1 "	99284300	x
	Ø 32 mm x 1-¼ "	99284400	x
	Ø 40 mm x 1-¼ "	99285400	x
	Ø 40 mm x 1-½ "	99285500	x
	Ø 50 mm x 1-½ "	99286500	x
	Ø 50 mm x 2 "	99286600	x
	Ø 63 mm x 2 "	99287600	x
Tees (Metric X Metric X Metric)	Ø 16 mm x Ø 16 mm x Ø 16 mm	99231100	x
	Ø 20 mm x Ø 20 mm x Ø 20 mm	99232200	x
	Ø 25 mm x Ø 25 mm x Ø 25 mm	99233300	x
	Ø 32 mm x Ø 32 mm x Ø 32 mm	99234400	x
	Ø 40 mm x Ø 40 mm x Ø 40 mm	99235500	x
	Ø 50 mm x Ø 50 mm x Ø 50 mm	99236600	x

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	Ø 63 mm x Ø 63 mm x Ø 63 mm	99237700	x
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Reducing Tees (Metric X Metric X Metric)	Ø 25 mm x Ø 25 mm x Ø 20 mm	99233200	x
	Ø 25 mm x Ø 25 mm x Ø 32 mm	99233400	x
	Ø 32 mm x Ø 32 mm x Ø 25 mm	99234300	x
	Ø 40 mm x Ø 40 mm x Ø 25 mm	99235300	x
	Ø 40 mm x Ø 40 mm x Ø 32 mm	99235400	x
	Ø 50 mm x Ø 50 mm x Ø 25 mm	99236300	x
	Ø 50 mm x Ø 50 mm x Ø 32 mm	99236400	x
	Ø 50 mm x Ø 50 mm x Ø 40 mm	99236500	x
	Ø 63 mm x Ø 63 mm x Ø 25 mm	99237300	x
	Ø 63 mm x Ø 63 mm x Ø 32 mm	99237400	x
	Ø 63 mm x Ø 63 mm x Ø 50 mm	99237600	x
Tees (Metric X Metric X FI BSP)	Ø 16 mm x Ø 16 mm x ½ "	99241100	x
	Ø 20 mm x Ø 20 mm x ½ "	99422100	x
	Ø 20 mm x Ø 20 mm x ¾ "	99242200	x
	Ø 25 mm x Ø 25 mm x ½ "	99243100	x
	Ø 25 mm x Ø 25 mm x ¾ "	99243200	x
	Ø 25 mm x Ø 25 mm x 1 "	99243300	x
	Ø 32 mm x Ø 32 mm x ½ "	99244100	x
	Ø 32 mm x Ø 32 mm x ¾ "	99244200	x
	Ø 32 mm x Ø 32 mm x 1 "	99244300	x
	Ø 32 mm x Ø 32 mm x 1-¼ "	99244400	x
	Ø 40 mm x Ø 40 mm x ½ "	99245100	x
	Ø 40 mm x Ø 40 mm x ¾ "	99245200	x
	Ø 40 mm x Ø 40 mm x 1 "	99245300	x
	Ø 40 mm x Ø 40 mm x 1-¼ "	99245400	x
	Ø 50 mm x Ø 50 mm x ½ "	99246100	x
	Ø 50 mm x Ø 50 mm x ¾ "	99246200	x
	Ø 50 mm x Ø 50 mm x 1-½ "	99246500	x
	Ø 50 mm x Ø 50 mm x 2 "	99246600	x
	Ø 63 mm x Ø 63 mm x 2 "	99247600	x
Tees (Metric X Metric X MI BSP)	Ø 25 mm x Ø 25 mm x ½ "	99293100	x
	Ø 25 mm x Ø 25 mm x ¾ "	99293200	x
Elbows (Metric X Metric)	Ø 20 mm x 20 mm	99252200	x
	Ø 25 mm x 20 mm	99253200	x
	Ø 25 mm x 25 mm	99253300	x
	Ø 32 mm x 32 mm	99254400	x
	Ø 40 mm x 40 mm	99255500	x
	Ø 50 mm x 50 mm	99256600	x

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## 3G Metric™ Clamp fittings

	Ø 63 mm x 63 mm	99257700	x
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Elbows (Metric X FI BSP)	Ø 16 mm x 1/2 "	99262100	x
	Ø 20 mm x 1/2 "	99262100	x
	Ø 20 mm x 3/4 "	99262200	x
	Ø 25 mm x 1/2 "	99263100	x
	Ø 25 mm x 3/4 "	99263200	x
	Ø 25 mm x 1 "	99263300	x
	Ø 32 mm x 1 "	99264300	x
	Ø 32 mm x 1-1/4 "	99264400	x
	Ø 40 mm x 1-1/4 "	99265400	x
	Ø 40 mm x 1-1/2 "	99265500	x
	Ø 50 mm x 1-1/2 "	99266500	x
	Ø 50 mm x 2 "	99266600	x

### APPLICATION AND USE

The products are used as part of underground polyethylene piping systems for the transport of drinking water at a maximum temperature of 35 °C.

### MARKING

The products are marked with the Kiwa-mark.

The minimum required marking on the fittings shall be:

- KK (if not possible Kiwa on only the smallest packaging)
- name of the manufacturer, trade name, company log, system name or certificate number of the certified piping system in which they are certified;
- Nominal outside diameter of the corresponding pipe;
- Production code

The minimum required marking on the smallest packaging unit of the fittings shall be:

- Kiwa® (or Kiwa® word mark);
- Pressure class;
- the manufacturer's name or trade name, certificate number of the certified piping system in which they are certified;
- material identification of the fitting body;
- nominal outside diameter and nominal wall thickness of the corresponding pipe in mm;
- production code.

The realization of the marks is as follows: durable and indelible on every fitting/ packaging.

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### RECOMMENDATIONS FOR CUSTOMERS:

1. Check at the time of delivery whether:
    - 1.1 the producer has delivery in accordance with the agreement;
    - 1.2 the mark and the marking method are correct;
    - 1.3 the products show no visible defects as a result of transport etc.
  2. If you should reject a product on the basis of the above, please contact:
    - 2.1 Philmac Pty Ltd  
and, if necessary,
    - 2.2 Kiwa N.V.
  3. Consult the producer's processing guidelines for the proper storage and transport methods.
  4. Check whether this certificate is still valid by consulting [www.kiwa.nl](http://www.kiwa.nl)
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