

Raccordi metallici in ottone per sistemi di tubazione multistrato per adduzione di acqua potabile calda e fredda (BRL K536E).

*Metal brass fittings for multilayer piping systems for transporting hot and cold drinking water (BRL K536E).*



## Product certificate K88416/01



Issued 2015-08-01  
Replaces n.a.  
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### Metal Fittings for Multilayer Piping Systems

#### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that legitimate confidence exists that the products supplied by

#### Valsir S.p.a.

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K536 E "Plastics piping systems of PE-X /AI intended for transport of hot and cold drinking water" dated 15-12-2011, including amendment sheet dated 10-03-2015.

Bouke Meekma  
Kiwa

This product certificate is only valid in combination with a Kiwa certified plastics piping system.

Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.

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Certification process  
consists of initial and  
regular assessment of:

- quality system
- product

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## Metal Fittings for Multilayer Piping Systems

### PRODUCT SPECIFICATION

The products mentioned below belong to this certificate.

ARTICLE NUMBER	DESCRIPTION
VS0170003	INTERMED.STRAIGHT FITTING 16X2 - 16X2
VS0170009	INTERMED.STRAIGHT FITTING 20X2 - 20X2
VS0170013	INTERMED.STRAIGHT FITTING 26 - 26
VS0170015	INTERMED.STRAIGHT FITTING. 32 - 32
VS0170119	REDUCED STRAIGHT FITTING 20X2 - 16X2
VS0170127	REDUCED STRAIGHT FITTING 26 - 16X2
VS0170131	REDUCED STRAIGHT FITTING 26 - 20X2
VS0170143	REDUCED STRAIGHT FITTING 32 - 16X2
VS0170145	REDUCED STRAIGHT FITTING 32 - 20X2
VS0170149	REDUCED STRAIGHT FITTING 32 - 26
VS0170159	REDUCED STRAIGHT FITTING 40 - 26
VS0170161	REDUCED STRAIGHT FITTING 40 - 32
VS0170171	REDUCED STRAIGHT FITTING 50 - 32
VS0170205	STRAIGHT MALE FITTING 16X2 X 1/2"
VS0170209	STRAIGHT MALE FITTING 16X2 X 3/4"
VS0170213	STRAIGHT MALE FITTING 16X2 X 1/2"
VS0170221	STRAIGHT MALE FITTING 20X2 X 1/2"
VS0170225	STRAIGHT MALE FITTING 20X2 X 3/4"
VS0170231	STRAIGHT MALE FITTING 26 X 1"
VS0170233	STRAIGHT MALE FITTING 26 X 1/2"
VS0170235	STRAIGHT MALE FITTING 26 X 3/4"
VS0170239	STRAIGHT MALE FITTING 32 X 1"
VS0170305	STRAIGHT FEMALE FITTING 16X2 X 1/2"
VS0170309	STRAIGHT FEMALE FITTING 16X2 X 3/4"
VS0170321	STRAIGHT FEMALE FITTING 20X2 X 1/2"
VS0170325	STRAIGHT FEMALE FITTING 20X2 X 3/4"
VS0170331	STRAIGHT FEMALE FITTING 26 X 1"
VS0170335	STRAIGHT FEMALE FITTING 26 X 3/4"
VS0170339	STRAIGHT FEMALE FITTING 32 X 1"
VS0170403	INTERM.ELBOW FITTING 16X2 - 16X2
VS0170409	INTERM.ELBOW FITTING 20X2 - 20X2
VS0170413	INTERM.ELBOW FITTING 26 - 26
VS0170415	INTERM.ELBOW FITTING 32 - 32
VS0170505	MALE ELBOW FITTING 16X2 X 1/2"
VS0170513	MALE ELBOW FITTING 16X2 X 3/4"
VS0170521	MALE ELBOW FITTING 20X2 X 1/2"
VS0170525	MALE ELBOW FITTING 20X2 X 3/4"
VS0170531	MALE ELBOW FITTING 26 X 1"
VS0170535	MALE ELBOW FITTING 26 X 3/4"
VS0170539	MALE ELBOW FITTING 32 X 1"
VS0170605	FEMALE ELBOW FITTING 16X2 X 1/2"
VS0170621	FEMALE ELBOW FITTING 20X2 X 1/2"
VS0170625	FEMALE ELBOW FITTING 20X2 X 3/4"
VS0170631	FEMALE ELBOW FITTING 26 X 1"
VS0170635	FEMALE ELBOW FITTING 26 X 3/4"
VS0170639	FEMALE ELBOW FITTING 32 X 1"
VS0170703	INTERMED.UNION TEE 16X2 - 16X2 - 16X2
VS0170709	INTERMED.UNION TEE 20X2 - 20X2 - 20X2
VS0170713	INTERMED.UNION TEE 26 - 26 - 26
VS0170715	INTERMED.UNION TEE 32 - 32 - 32

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## Metal Fittings for Multilayer Piping Systems

VS0170807	REDUCED UNION TEE 16X2 - 20X2 - 16X2
VS0170815	REDUCED UNION TEE 20X2 - 16X2 - 16X2
VS0170819	REDUCED UNION TEE 20X2 - 16X2 - 20X2
VS0170825	REDUCED UNION TEE 20X2 - 20X2 - 16X2
VS0170829	REDUCED UNION TEE 20X2 - 26 - 20X2
VS0170833	REDUCED UNION TEE 26 - 16X2 - 26
VS0170839	REDUCED UNION TEE 26 - 20X2 - 20X2
VS0170843	REDUCED UNION TEE 26 - 20X2 - 26
VS0170847	REDUCED UNION TEE 26 - 26 - 20X2
VS0170851	REDUCED UNION TEE 32 - 16X2 - 32
VS0170853	REDUCED UNION TEE 32 - 20X2 - 32
VS0170857	REDUCED UNION TEE 32 - 26 - 26
VS0170859	REDUCED UNION TEE 32 - 26 - 32
VS0170905	FEMALE UNION TEE 16X2 X 1/2" X 16X2
VS0170921	FEMALE UNION TEE 20X2 X 1/2" X 20X2
VS0170925	FEMALE UNION TEE 20X2 X 3/4" X 20X2
VS0170935	FEMALE UNION TEE 26 X 3/4" X 26
VS0170937	FEMALE UNION TEE 32 X 3/4" X 32
VS0170939	FEMALE UNION TEE 32 X 1" X 32
VS0171005	FLANGED FITTING 16X2 X 1/2"
VS0171021	FLANGED FITTING 20X2 X 1/2"
VS0171025	FLANGED FITTING 20X2 X 3/4"
VS0171035	FLANGED FITTING 26 X 3/4"
VS0171051	FLANGED FITTING 16x2 - 1/2"
VS0171105	TERMINAL WITH FEMALE NUT 6X2 X 1/2" TAPERED THREAD
VS0171107	TERMINAL WITH FEMALE NUT 16X2 X 1/2" FLAT END
VS0171111	TERMINAL WITH FEMALE NUT 16X2 X 3/4" FLAT END
VS0171113	TERMINAL WITH FEMALE NUT 16X2 X 3/4" FLAT END
VS0171117	TERMINAL WITH FEMALE NUT 20X2 X 1/2" FLAT END
VS0171119	TERMINAL WITH FEMALE NUT 20X2 X 3/4" FLAT END
VS0171123	TERMINAL WITH FEMALE NUT 26 X 3/4" FLAT END
VS0171125	TERMINAL WITH FEMALE NUT 26 X 1" FLAT END
VS0171131	TERMINAL WITH FEMALE NUT 32 X 1" FLAT END
VS0171157	TERMINAL WITH FEMALE NUT 16x2 - 1/2" FLAT END
VS0171167	TERMINAL WITH FEMALE NUT 20x2 - 1/2" FLAT END
VS0171169	TERMINAL WITH FEMALE NUT 20x2 - 3/4" FLAT END
VS0171173	TERMINAL WITH FEMALE NUT 26 X 3/4" FLAT END
VS0171303	PEXAL FITTING 16X2 ADAPTOR TO COPPER D14
VS0171305	PEXAL FITTING 16X2 FOR COPPER CONNECTION
VS0171351	PEXAL FITTING 16X2 ADAPTOR TO PEX 16X1.5
VS0171353	PEXAL FITTING 20X2 ADAPTOR TO PEX 20X1.9

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## Metal Fittings for Multilayer Piping Systems

### HYGIENIC ASPECTS

#### Approval:

This product is approved on the basis of the requirements set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"); published in the Government Gazette.

#### Criteria hygienic aspects:





The hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. The recipe is laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to certificate K88416. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects, laid down in 'appendix hygienic aspects' to certificate K88416. For confidentiality reasons this appendix is not public.

### MARKING

The products are marked with the Kiwa-mark.


The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or **KK**\* or **KK**\* (if not possible, **KIWA**  only on the smallest packaging unit)\*\*;
- manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe in mm;
- production code.

Location of the marks: on every fitting.

The realization of the marks is as follows: clear, durable and indelible.

The smallest packaging unit of the fittings are provided with at least the following information:

- **KIWA** ;
- manufacturer's name, trade name, system name, logo or certificate number of the accompanying technical approval (system) certificate, in accordance with the marking of the connecting pipe;
- nominal outside diameter and nominal wall thickness of the corresponding pipe, in mm.

Location of the marks: on every package.

The realization of the marks is as follows: clear, durable and indelible.

\*) for small fittings marking with only **KK** is permitted

\*\*\*) only after approval by Kiwa

Method of marking:

- non-erasable;
- visible after assembly.

### APPLICATION AND USE

The products are intended to be applied in piping systems for hot and cold water distribution at a maximum operating pressure of 8 or 10 bar (9 or 11 bar absolute or 8 or 10 bar overpressure), under the conditions mentioned in table 1 of BRL-K536E. The products shall be used with Kiwa certified pipes.

### RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Valsir S.p.a.
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.