

## Technical-approval-with-product certificate **K88459/03**



Issued 2021-08-15

Replaces K88459/02

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### Mixal and Mixalpex Piping System

#### STATEMENT BY KIWA

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

#### **Valsir S.p.a.**

as specified in this technical approval-with-product certificate and marked with the Kiwa®-mark in the manner as indicated in this technical approval-with-product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K536 E "Plastics piping systems of PE-X/Al intended for transport of hot and cold drinking water" dated 15-12-2011 inclusive amendment sheet dated 13-03-2018.

Within the framework of this technical approval-with-product certificate Kiwa does not impose any inspections with regard to the production of other parts of the plastics piping system, nor the manufacturing of the plastics piping system itself.

Ron Scheepers  
Kiwa

*Publication of this certificate is allowed.*

*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



## Mixal and Mixalpex Piping System

### PRODUCT SPECIFICATION

Plastics piping systems of PE-X/Al intended for the transport of cold and heated drinking water according to BRL K536 part E.

The system consists of:

- Mixal pipes of PE-Xb/Al/PE manufactured by Valsir S.p.A. (certificate K88470);
- Mixalpex pipes of PE-Xb/Al/PE-Xb manufactured by Valsir S.p.A. (certificate K88470);
- Metal Press fittings manufactured by Valsir S.p.A. (certificate K88416);
- Metal Press fittings manufactured by Idrosanitaria Bonomi S.p.A. (certificate K45999);

The pipe dimensions as indicated in the table below belong to this certificate.

Nominal outside diameter (mm)	Wall thickness (mm)	Wall thickness aluminum layer (mm)	Pressing Profiles Valsir fittings <sup>a</sup>
16	2,0	0,20	H,TH,U
20	2,0	0,25	H,TH,U
26	3,0	0,35	H,TH,C
32	3,0	0,40	VAL,H,TH,U

<sup>a</sup> Idrosanitaria Bonomi S.p.A are certified in combination with TH pressing profiles

Colour of the pipes: Inner pipe Natural  
Outer pipe White  
Colour of the fittings: Body Brass  
Press sleeve Stainless Steel AISI 304

### Fitness for contact with drinking water



The pipes and fittings used in this system are approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" dated 01-07-2017; ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"; published in the Government Gazette). The criteria for these hygienic aspects are recorded in the respective product certificates.

### MARKING

The products are marked with the Kiwa-mark.

#### Pipes

The minimum required marking on the pipes shall be:

- **KIWA**  or \* + class 2 / 10 bar;
- Manufacturer's name, trade name, system name or certificate number of accompanying technical approval (system)certificate;
- Material identification: PE-X b;
- The build-up of the pipe: PE-Xb/Al/PE and PE-Xb/Al/PE-Xb;
- Nominal outside diameter and nominal wall thickness in mm;
- Production code.





Location of the marks: on every pipe at intervals of not more than 2 m.

The realisation of the marks is as follows: durable and indelible.

\*) for smaller diameters permitted by Kiwa.

#### Fittings

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

## Mixal and Mixalpex Piping System

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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;
- Material identification in case the fitting body is made of plastics.

Location of the marks: on every package.


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

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

\*\*) only after approval by Kiwa

### Protection Pipes

The minimum required marking on the Protection pipes shall be:

- **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;

The realisation of the marks is as follows: clearly and indelible at intervals of not more than 2,5 m.

### LOGISTICS

Production and assembly of the system is laid down in the annex of the certification agreement.

### APPLICATION AND USE

The products are designed for drinking water installations with a lifetime of 50 years at an operating temperature profile according to class 2 of ISO 10508 and an allowable working pressure of maximum 10 bar.

The corrugated protection pipes have to protect the medium pipes in case the medium pipes are embedded.

### 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, transport and processing methods.