DVGW/Kiwa/Teppfa initiative

1 Background:

At this moment in Europe the standard EN ISO 21003 is in force for multilayer piping systems for hot and cold water installations inside buildings.

The European countries are using this standard as base for the (mechanical part) of the private certification. On top of this most European country have own hygienic requirements (and some additional mechanical requirements).

The above results in a separate application process per EU country for certification of the products under the scope of EN ISO 21003. According to the accreditation rules, also the third party (certification) audits shall be executed per certification institute;
In many cases each certification institute has its own qualified inspectors to visit the relevant production location. This results in many inspection audits per year for the same product at the same location.

2 Goal

Some parties have taken the first steps to harmonize certification in Europe;
Kiwa has together with DVGW Zert and the TEPPFA (The European Plastic Pipes and Fittings Association) taken the initiative to introduce harmonized requirements and procedures per certification mark (in the European market) for the aspects below:

- Mechanical requirements;
- Hygienic requirements;
- Quality requirements;

These requirements are fixed in a joint evaluation guideline; the **P**roduct **E**valuation **G**uideline (**PEG**),see enclosure.

- The initiative has resulted in a **H**armonized **C**ertification **S**ystem (**HCS**).
- The HCS rules are public and fixed in the **G**eneral **R**ules for **P**roduct **C**ertification (**GRPC**), see enclosure (Annex C under construction);
- the certification marks stays in force;
- The implies that the accreditation per certification institute stays in force as required by EN ISO17065;
- Audit-Inspection and testing(reports) shall be recognized by the participating Certification Institutes;

After implementation of the HCS other certification institutes will be invited to join the initiative.

3 Implementation

3.1 General

Following the accreditation rules draft BRL-K536 Part K is now published for comments, including the relevant documents (PEG, GRPC).

3.2 Hygienic requirements:

These requirements are a concrete implementation of Article 10 of the European Directive 98/83/EC (3 November 1998: the quality of drinking water intended for human consumption) and based on the notified scheme (Notification number 2015/234/P) to the European commission.

3.3 Mechanical requirements
These are following the EN ISO 21003 without additional requirements.

3.4 Quality requirements
These are following CEN ISO/TS 21003-7 as well as the accredited Kiwa procedures and rules.

3.5 certification requirements:
The points 3.2 until 3.4 are included in draft Guideline BRL-K536 Part K intended to certify the products for marking with:

3.6 Management
To manage the HCS a **B**oard of **S**takeholders (**BoS**) is established with representatives of all stakeholders (for instance Kiwa, DVGW Zert, Teppfa, customers, etc).

4 present Kiwa-certificate holders

4.1 General

Kiwa certificates based on the EN ISO 21003 are following the Kiwa guidelines below:

- BRL-K536 Part E: *" guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of **PE-X /Al** intended for transport of hot and cold drinking water";*
- BRL-K536 Part F*:"guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of **PP-R /Al** intended for transport of hot and cold drinking water";*
- BRL-K536 Part G*:"guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of **PE-RT /Al** intended for transport of hot and cold drinking water".*

4.2 differences

Comparison with Draft BRL-K536 Part K: "*guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of **PE-X /Al, PE-RT/Al, PP-R/Al and PP-RCT/Al** intended for transport of hot and cold drinking water*" shows the following differences:

4.2.1 With draft BRL-K536 Part K the EN ISO 21003 dimension groups are followed, see table 2 in the PEG:

- group 1: ≥10 to ≤ 26 mm;
- group 2: <26 to ≤ 63 mm;
- group 3: >63 mm

4.2.2 With draft BRL-K536 Part K it is possible to certify PP-RCT/Al piping systems.

4.3 Choices for the certificate holders
The Kiwa guidelines as mentioned with point 4.1 will stay in force.
Certificate holders can also choose to be certified (only) according to the BRL-K536 Part K.