



The press fittings series APL, conforming to UNI EN ISO 21003-3, UNI EN 1254-3 and to Ministerial Decree 174, are designed and produced to increase their sealing characteristics and reduce installation times, thus assisting plumbers in system assembly. Provided with double O-Ring seals and with a polyamide lock-ring supporting the pipe sleeve, these fitting are used in sanitary water and heating systems and are available in a range of types and sizes from Ø16 to Ø32.

THE APL SYSTEM

The APL press coupling system has been developed to reach the highest safety level during installation; fittings that are not tight will leak during pressure testing (at up to a test pressure of 6 bar) and can be immediately identified.

The seal between pipe and fitting is guaranteed by the profile of the press fitting and by the presence of two O-Rings [2] positioned in the fitting itself. Using a pressing unit with suitable jaws [see the notes below on pressing profiles] the fitting [4] is permanently deformed and the pressing force in turn deforms the multi-layer pipe onto the specific profile.

The lock-ring [3] has inspection slots that allow to check the correct coupling between pipe and fitting. The thickness of the lock-ring is such as to support high pressures even in the presence of large temperature changes. This ring is in steel type AISI 304 which has been subjected to a further solubilisation treatment for stress relief and to avoid uneven stress developing in time; this heat treatment cancels the stress memory of the material, avoiding any future cracks and leaks.

The presence of the ring [3] insulates the aluminium pipe from the brass pipe, thus avoiding electro-chemical corrosion effects.



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The system composed by **APL fittings and APE Multilayer pipe** has been certified by :

- **DVGW** Certificate - DW-8501CR0411
- **KIWA** certificate N° K94485
- **WRAS** Certificate - 1906357
- **ATG** Certificate - 3212
- **AFNOR** Certificate - Admission No 101160, Holder 045
- **AENOR** Certificate - 001/007418
- UNI EN ISO 21003
- DIN 4726
- Ministerial Decree No. 174/2004

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