

Introduction

AP GAS series press fittings, manufactured in compliance with UNI 11344, are designed and produced with the aim of increasing tightness and cutting assembly times to simplify procedures for the installer. With two O-rings for sealing and a PE washer to eliminate any stray currents, they are used in indoor installation for the conveyance of gaseous fuels and are available in a wide range of shapes, with diameters from Ø16 to Ø32.

APGAS SYSTEM

A tight seal between pipe and fitting is guaranteed by the profile of the hose barb and the two O-rings [2] fitted within it. A crimping tool fitted with special jaws [see the notes on the crimping profiles below] is used to deform the sleeve permanently [4], while the compression force used when crimping also deforms the multilayer pipe onto the special profile.

The sleeve [4] has Two (2) inspection holes used to check that the pipe-fitting coupling is correct and that the pipe has been inserted fully and is resting against the PE washer. The sleeve thickness is designed to withstand high pressures under considerable temperature variations. It is manufactured in AISI 304 steel, which undergoes an additional solubilisation process to relieve any residual stresses in the material and ensure uniform distribution of stresses over time. The solubilisation process is of fundamental importance because it clears the material's memory, eliminating the risk of failure and thus leakage of the fitting.

The PE washer [3] insulates the aluminium pipe from the brass fitting, preventing corrosion.



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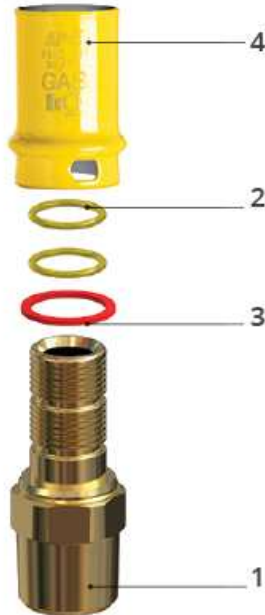
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N.	Description	Materials and conformity
1	Body	CW617N Conforme norma UNI EN 12164:01; UNI EN 12165:99; UNI EN 12168:01
2	O-ring	EPDM perossidico 70 SCH Conforme norma EN 681.1
3	Washer	PE (Polietilene)
4	Sleeve	AISI 304 steel Conforme norma UNI EN 10088-2

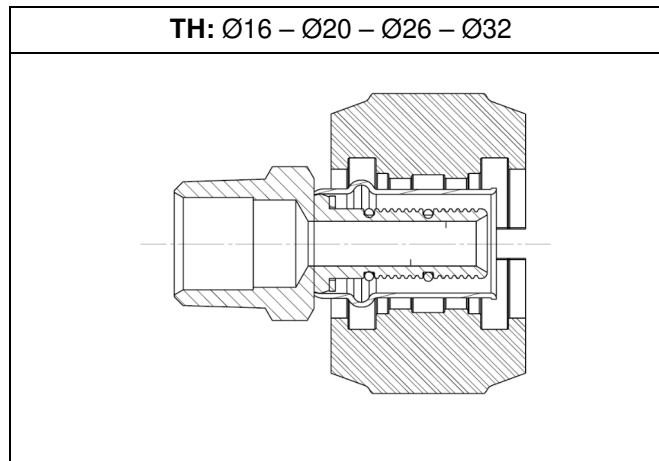
Technical specifications

Field of application:	domestic gas distribution
Fluids carried:	gas of VI and VII species (methane and gpl)
Temperature range:	from -20 °C to 70 °C
Operating pressure:	MOP 5
Type of pipe:	Multilayer PE-Xb/AL/PE-Xb (compliant with UNI 11344)
Crimping profile:	TH profile from $\varnothing 16$ to $\varnothing 32$

CRIMPING PROFILES

The APGAS tube fitting system has been certified by the following bodies KIWA UNI and KIWA QUALITY, the crimping profile is TH.

The illustration below shows the correct position for the crimping tool in relation to the profile: crimping must take place at the correct position with respect to the O-rings, in order to ensure the fitting's tightness.



Compliance

The system composed by APGAS fittings and APE MULTYGAS pipe has been certified by :

- **KIWA UNI** Certificate KIP-063803
- **KIWA Quality** Certificate KIP-103177
- UNI 11344
- ISO 17484

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