



Propress[™]G GAS Datasheet

System Description

Propress G are safe, reliable, and economical copper pipe installation systems that use modern cold press connection technology for a wide assortment of more than 150 fittings in dimensions ranging from DN15 (1/2") to DN100 (4").

The Propress G system is a copper press connection system designed to meet the demands of natural gas and liquid propane gas in the vapour state as well as fuel oil systems. Press fittings are manufactured in copper and fittings with BSP threads connections are manufactured in bronze. Propress G utilizes an HNBR sealing element to provide permanent leak-proof connections in dimensions from DN15 (1/2") to DN100 (4").

Applications

Copper Tube: Type A and B hard drawn copper tube from DN15 to DN100 and annealed copper tube in DN15 to DN40. All tube must comply with the AS1432 standard. Propress G fittings are approved for installations in both above and belowground applications.

Operating Parameters:

Fuel gas in a vapour state **not** in the liquid state with a 1600kPa max operating pressure and an ambient temperature range of -40°C to 70°C. N.B. The scope of AS5601 for all gas system is restricted 200kPa, which is below this system's capability.

- Natural Gas
- Liquid Propane Gas
- Mixed Fuel Gases (vapor state only)
- Manufactured Fuel Gases
- Butane

Other Approved Applications

- Fuel Oil Heating Systems
- Carbon Dioxide CO₂ (dry)
- Vacuum (Max 730mm Hg (29.2 inches of Mercury) or – 97kPa)
- Diesel Fuel
- Motor Oil

System Benefits

- Fast and Easy to Use
- Flameless
- Permanent Connections
- Wide range from DN15 to DN100
- Large Selection of Fittings
- Consistent Professional Appearance
- Less Equipment Required
- Environmentally Friendly Connection System
- Versatility of Fittings for Variety of Applications

Fittings

Viega Propress G fittings are offered in 150+ configurations including: Elbows, Couplings, Reducers, Tees, Reducing Tees, Threaded Adapters, Unions, Caps, and Flanges. All Threaded 1/2"- 2" fittings are bronze. Fittings are provided with a factory installed HNBR sealing element, yellow in color.

Smart Connect[™] (SC Feature)

The Smart Connect[™] Feature is a special indentation in the inside surface of the fitting near the sealing element. This indentation assures identification of leakage of liquids and/or gases from inside the system past the sealing element of an **unpressed** connection. The indentation is removed during the pressing process creating a leakfree, permanent connection. This feature provides quick and easy identification of connections, which have not been pressed prior to putting the system into operation.



Tools

There are two formats of pressing tools for connecting Propress fittings.

- PT3-AH or Pressgun 4B battery powered Tool (DN15 to DN100)
- Picco or Pressgun Picco battery powered Tool (DN15 to DN25)
- DN15 to DN100 fittings are pressed in 4-7 sec.

Fitting Markings

Each fitting is marked with the following:

- Viega
- The fitting dimension
- "Gas" etched in several places and painted in yellow

History

Propress G has been used in Europe since 1999 and in the U.S. since 2004. Propress (water) has been used in Europe since the late 1980s and in the U.S. since the late 1990s for a variety of applications. Viega Propress & Propress G were introduced to Australia in 2006. A world leading plumbing company and an Australasian leader with over 200 years of combined excellence back Viega Propress G.

Warranty

Viega Propress G fittings carry a 25-year warranty against defects in material and workmanship when installed in conjunction with Crane Copper Tube.

Approvals and Certificates

- Approved for use throughout Australia and will be included in the next edition of AS5601 due to be reprinted in December 2010.

INTERNATIONAL APPROVALS

- Deutsch Verein des Gas-und Wasserfaches E.V. (DVGW)
- Lloyd's Register (LLOYD'S)
- Det Norske Veritas (DNV)
- Registro Italiano Navale (RINA)
- Bureau Veritas (BV)
- KIWA
- IFGC International Fuel Gas Code
- NFPA 54/Z223.1 National Fuel Gas Code
- NFPA 58 Liquefied Petroleum Gas Code
- UPC Chapter 12 Fuel Piping
- NFPA 30 Flammable and Combustible Liquids code
- NFPA 30A Code for Motor Fuel Dispensing Facilities and Repair Garages
- NFPA 31 Standard for the Installation of Oil-Burning Equipment (supply line only)

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