

Flexigas

Specification Sheet – UK

Description

FlexiGas™ is a flexible gas piping system manufactured to BS/EN15266 “Stainless steel pliable corrugated tubing kits in buildings for gas with an operating pressure up to 0,5 bar” and certified in accordance with the BSI Kitmark certification scheme. All installations must be installed in accordance with the relevant installation standard.

Relevant Installation Standards in the UK

- BS6891– *Installation of low pressure gas pipework of up to 35 mm (R1.1/4) in domestic premises (2nd family gas).*
BS5482 – *Code of practice for domestic butane- and propane-gas-burning installations. Installations at permanent dwellings, residential park homes and commercial premises, with installation pipework sizes not exceeding DN 25 for steel and DN 28 for corrugated stainless steel or copper.*
- IGUM/UP/2 Edition 2/3 – *Installation pipework on industrial and commercial premises.*

Stainless Steel Tubing:

- Tubing is made from 1.4404 (316L) Stainless Steel conforming to BS/EN 10088.
- Pressure shall not exceed .5bar as per BS/EN15266.
- The yellow jacket is extruded from fire-retardant Polyethylene and is resistant to UV (ultra-violetes).
- Polyethylene cover >0.5mm thickness and contains chloride content <50 ppm.
- Clean circular cuts of the tubing shall be made to ensure reliable flaring of the tubing.
- Tube can be placed in fire protected corridor if installed as on continuous length. See section 8.19 of BS 6891.
- Resistance to fire of tube: >2 hours at 650C. Tube cover (polyethylene): B-s1-d0.
- Dimensions:

Tubing Size	DN 15	DN 22	DN 28	DN 32	DN 40	DN 50
Outer Diameter (without cover)	18.11mm	25.6mm	32mm	38mm	50mm	60mm
Internal Diameter	14.1mm	21.4mm	27mm	33mm	41mm	50mm
Tubing Wall Thickness	0.25mm	0.25mm	0.25mm	0.3mm	0.30mm	0.30mm
Polyethylene Cover Thickness	0.80mm	0.80mm	0.80mm	0.80mm	0.80mm	0.80mm

Mechanical Fittings:

- Fittings are made from dezincification resistant (DR) brass.
- Brass fittings are available in male, female, tee, reducing tee, union and reducing union combinations.
- Fittings provide a metal-to-metal self-flaring seal. No rubber or plastic components are needed but may be added at discretion for easier sealing.
- Resistance to fire of fittings: 30min at 650C according to EN 1775 tests A and B.

Pressure Testing & Corrosion Protection:

- All installations must be pressure tested for leaks in accordance with the relevant installation standard.
- Only noncorrosive leak detection fluid suitable for stainless steel can be used.
- Any exposed stainless steel (for example a cut on the outer cover) and the small gap between the tail on the nut of the fitting and the tube must be wrapped with silicone tape (after gas tightness test has been completed).

Electrical Bonding

- All installations shall be earth bonded according to BS6891

Certification/Training

- Only installers licensed by the Health and Safety Executive are permitted to make gas installations in the UK, i.e. Gas Safe registered installers.
- Training videos are available in the Flexigas training centre (www.flexigas.com/training).

This information sheet must be read in conjunction with the full Design and Installation Manual – UK Edition and any relevant standard.