

User Information Sheet 014

Formerly LPGA Technical Memorandum NO.83 – June 2005

Gas Soundness Testing of LPG Service Pipework, Installation Pipework and Appliances in Holiday Homes, Caravans and Motor Homes

Introduction

With the publication of BSEN 1949 (Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and in other road vehicles) and BS 5482 part 1 2005 (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not exceeding DN 25 for steel and DN 28 for corrugated stainless steel or copper) LPGA Technical Memorandum 62 has been withdrawn.

There remains, however, a need for a soundness test procedure for use in the field in holiday homes, caravans and motor caravans.

Pending the adoption of a British Standard addressing these issues and following consultation with the National Caravan Council, CORGI and HSE these may be tested in accordance with either:

BSEN 1949 where facilities exist (for example in workshops); or

BS5482 part 1 with Tables A.1 and A.2 supplemented as indicated in TM 62 ie:

Table A.1

CARAVAN	TYPE	FEED		PERMISSIBLE PRESSURE DROP			
				Initial Test Pressure			
				37 mbar	30 mbar	28 mbar	20 mbar
				Leak-rate 2.5 cm ³ /min	Leak-rate 2.0 cm ³ /min	Leak-rate 2.0 cm ³ /min	Leak-rate 1.3 cm ³ /min
mbar drop in 2 minutes							
TOURER CARAVAN	Typical	1	0.0010	5.0	4.0	4.0	2.5
MOTOR CARAVAN	Typical panel van conversion	1	0.00075	6.5	5.0	5.0	3.5
MOTOR CARAVAN	Typical coachbuilt	1	0.0010	5.0	4.0	4.0	2.5
HOLIDAY HOME	Large unit – Two Feeds	1 – Space Htr + Cooker/oven	0.0016	3.0	2.5	2.5	1.5
		2 – Water htr	0.0023	2.5	2.0	2.0	1.5
	Large unit with meter. Single feed	1	Meter vol. 0.007m ³	0.5	0.4	0.4	0.25
HOLIDAY HOME	Small unit	1	0.0020	2.5	2.0	2.0	1.5
	Small unit with meter	1	Meter vol. 0.007m ³	0.8	0.5	0.5	0.3

Table A.2

CARAVAN	TYPE	VOLUME m ³ . Incl. up to 10 m service pipework	PERMISSIBLE PRESSURE DROP	
			Initial Test Pressure	
			37 bar	30 bar
			Leak-rate 2.5 cm ³ /min	Leak-rate 2.0 cm ³ /min
mbar drop in 2 minutes				
HOLIDAY HOME	Large unit	0.0090 m ³	0.6	0.5
	Large unit with meter	Meter vol. 0.007 m ³	0.3	0.3
HOLIDAY HOME	Small unit	0.0071 m ³	0.8	0.6
HOLIDAY HOME	Small unit with meter	0.0141 m ³	0.4	0.3

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Unit 14, Bow Court, Fletchworth Gate, Burnsall Road, COVENTRY CV5 6SP
T 01425 711601 F 02476 672108 E mail@uklpg.org

