



SOUTHERN FEDERATION of MODEL ENGINEERING SOCIETIES

INFORMATION SHEET No. 11

DATE: AUGUST 2009

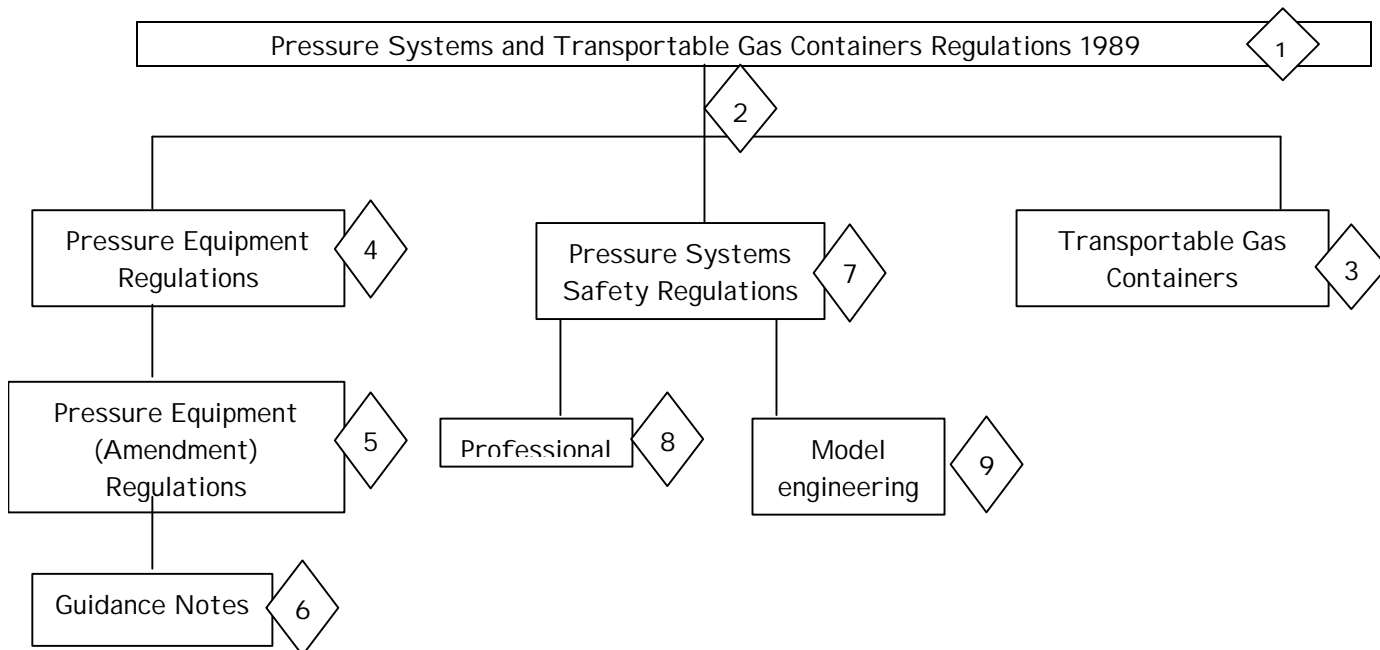
**SUBJECT: PRESSURE SYSTEMS SAFETY REGULATIONS,
PRESSURE EQUIPMENT REGULATIONS, CE MARKING
AND BOILER MANUFACTURERS**

Introduction

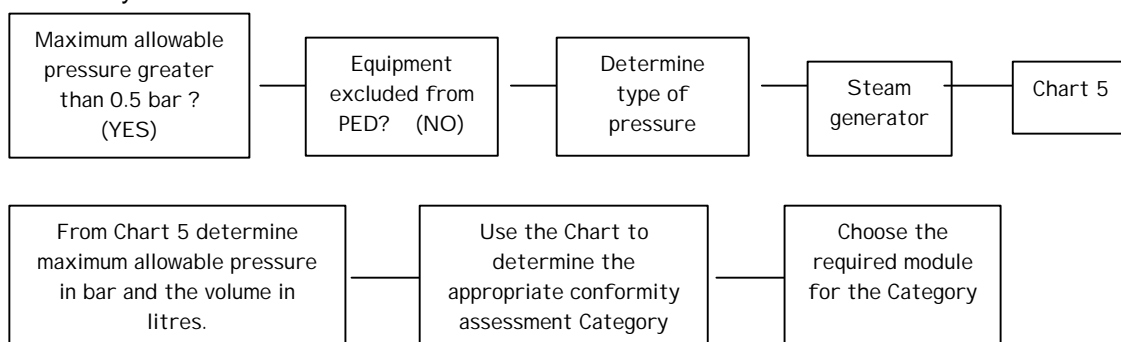
This document is intended to give a broad outline of the requirements for compliance to current legislation related to the manufacture and test of steam operated equipment in a model engineering environment. The legislation applies to manufacturers, owners, operators and personnel responsible for test and certification of model steam pressure equipment.

The document refers to Regulations that are current at the time of issue of this document. Subsequent amendments to Regulations may affect the content of this document and therefore it is essential check that the latest standard is consulted in the event of a requirement for detailed information.

The second part lists the members of the Association of Professional Copper Boiler Makers (ME)

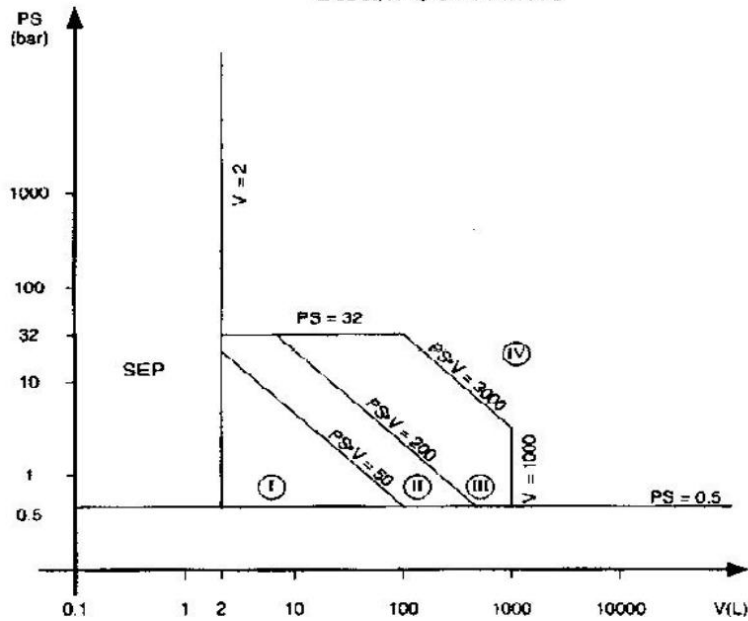


1. Pressure Systems and Transportable Gas Containers Regulations 1989 SI 2169.
2. In 1997 these Regulations were split in to three parts to accommodate the requirements of the EU. The principal change was given in the Directive 97/23/EC in the Official Journal of the European Communities ref L181 on 9th July 1997, commonly known as the Pressure Equipment Directive (PED).
3. Transportable Gas Containers Regulations. To date these have not been issued. In the absence of more formal documentation the data produced by NAME may be used.
4. Pressure Equipment Regulations SI 1999 No 2001. These Regulations are the Crown equivalent of the Directive 97/23/EC. Manufacturers may use either as a source document however any subsequent amendment may not be applicable in the Directive.
5. PER SI 1999 No 2001 was in fact amended under the Pressure Equipment (Amendment) Regulations 2002 No 1267. This amendment is important to model engineer owner/user since it gives relief from the requirement to comply with the Regulations if the model is subsequently sold.
6. Pressure Equipment Guidance notes on UK Regulations URN 05/1074. Description of how to comply with the requirements of the Pressure Equipment Regulations, including equipment classification and conformity assessment.



7. Pressure Systems Safety Regulations SI 2000 No 128. (PSSR).
8. Compliance with the PSSR for professional personnel principally involves the requirement for a Competent Person to produce a Written Scheme of Examination (WSE) and for a Competent Person to carry out an examination and test in accordance with the WSE. The Competent Person is to make a written report (Test Certificate) and send it to the user.
9. Compliance with the PSSR for model engineer boiler testers is by carrying out a test in accordance with the approved Boiler Test Code (latest edition) and by certification using approved boiler test certificates.

Chart 5
Steam Generators



Exceptionally, the design of pressure cookers must be subject to a conformity assessment procedure equivalent to at least one of the category III modules.

Category I	Category II	Category III	Category IV
Module	Modules	Modules	Modules
A	A1	B1 + D	B + D
	D1	B1 + F	B + F
	E1	B + E	G
		B + C1	H1
		H	

Key

Module	Design	Production
A	Technical documentation	Internal production control
A1	Technical documentation	Internal production control with monitoring of the final assessment
B	Type examination	
B1	Design examination	
C1		Monitoring of final assessment
D		Quality assurance for production, final inspection and test
D1	Technical documentation	Quality assurance for production, final inspection and test
E		Quality assurance for final inspection and test
E1	Technical documentation	Quality assurance for final inspection and test
F		Product verification
G	Unit verification	Unit verification
H	Quality assurance for design,	manufacture, final inspection and test
H1	Quality assurance for design, with design examination and	manufacture, final inspection and test monitoring of final assessment

Members of the Association of Professional Copper Boiler Makers (ME), APCBM (ME) carry the identification Code Number 5080 and should conform to the requirements of the PED or PER. A similar situation is in place for the manufacturers of steel boilers. A list of members of the APCBM (ME) is given below. There are other boiler manufacturers who are not members of the Associations but are able to supply boilers that do conform to the requirements of PED or PER. It is necessary therefore for individual persons buying a boiler to ensure that the manufacturer can supply a boiler that meets the relevant requirements and subsequently boiler inspectors to ensure that a boiler, when inspected, does comply with the requirements. Experience and investigation has shown that some boilers supplied by manufacturers that claim to supply boilers in accordance with PED/PER are not in fact supplying correct information or compliance.

Details of the specific requirements related to CE marking, category identification and module specifications have been well detailed in publications already issued. These are *Safe Operation of Pressure Systems for the Model Engineer* published by the MRLG circulated by the Federations and the model engineering press and the article written by Mike Leahy entitled *Buying a Boiler?*, published by Model Engineer in February 2003. Consequently this level of information is not reproduced in this report.

ASSOCIATION OF PROFESSIONAL COPPER BOILER MAKERS (ME).

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Kingswood Boilers Ltd. (Pete Carr)

Unit 21 Hanham Business Park, Memorial Road, Hanham, Bristol, BS15 3JE
Tel No. 01179 492 555
E-mail: pete@kingswoodboilers.co.uk

Swindon Copper Boilers. (Trevor Tremblen)

Great Western One Workshops, Bristol Street, Swindon, Wilts. SN1 5ET.
Tel No. 01793 610 150.

Dragon Boilers. (Ian Stock)

195 Gate Road, Penygroes, Llanelli, Carm. SA14 7RW.
Tel No. 01269 844 987.
E-mail: dragon.boilers@ntlworld.com

Southern Boiler Works. (Paul Tompkins)

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Documentation supplied by the manufacturer should include:-

- A certificate of first pressure test.
- An EC declaration of Conformity.
- Material specifications.
- Joining material specifications.
- Safety information and instructions for operation of the boiler.

On receipt the boiler should be checked to confirm that it has been stamped with:-
Serial Number and (if appropriate) the CE mark and the identity number of the Notified Body.