

Pressure Equipment Summary

The following is a guide to **typical** pressure equipment containing a relevant fluid (in accordance with the Pressure Systems Safety Regulations 2000) that will require inspection by a competent person, with the recommended frequencies for **statutory out-of service** examination shown:

Equipment description	Written scheme required	Recommended minimum examination frequency (see note 1)
Medium temperature hot water boiler (above 100 deg C)	Yes	14 months
Shell and tube steam boiler (any design)	Yes	14 months
Economiser for steam boiler	Yes	14 months
Pressure cooker	Yes	14 months
Self-generating steam autoclave	Yes	14 months
Self-generating steam generator	Yes	14 months
Self-generating steam jacketed pan	Yes	14 months
Self-generating steam oven	Yes	14 months
Steam superheater	Yes	14 months
Blow-down vessel	Yes	26 months
Compressed air receiver (above 250 bar-litres)	Yes	26 months
Compressed air filter / desiccant drier column or pressure reducing station complete with safety valve	Yes	26 months (see note 2)
Medical gas manifolds and protective devices	Yes	26 months (see note 2)
Pressurisation vessel (above 250 bar-litres)	Yes	26 months
Steam / MTHW calorifier	Yes	26 months
Steam /MTHW heat exchanger	Yes	26 months
Steam-heated jacketed autoclave	Yes	26 months
Steam-heated jacketed pan	Yes	26 months
Steam / medium temperature hot water pipework	Yes	26 months (see note 3)
Steam / MTHW pressure reducing station complete with safety valve	Yes	26 months
Steam / MTHW receiver	Yes	26 months (see note 4)
Gas-loaded hydraulic accumulator	Yes	36 months
Packaged refrigeration unit (above 25 kW total power)	Yes	48 months (see note 2)
Compressed air/oil receiver (above 250 bar-litres)	Yes	60 months
Fixed gas storage vessel (not a transportable receptacle)	Yes	As per written scheme

Please refer to explanatory notes overleaf.

Explanatory Notes:

Note 1: Examination periodicities shown as recommended by SAFed document PSG1 *“Guidelines on Periodicity of Examinations”*.

These are used as the baseline industry standard and **serve here as a guide only**; however the periodicities may be reduced or extended at the discretion of the Competent Person (Pressure Systems).

The periodicities for supplementary examinations such as non-destructive testing or hydraulic pressure testing are not included. Details of these should be included within the written scheme of examination.

Note 2: At the discretion of the Competent Person (Pressure Systems), out-of-service examinations on certain systems may be limited to external working inspections and include service or maintenance reports for work carried out by specialist contractors (incorporating test certification for system protective devices, for example). Details of such should be stipulated within the written scheme of examination.

Note 3: At the discretion of the Competent Person (Pressure Systems), pipework examinations may be limited to external working inspections, or include out-of-service (thorough) examination as detailed within the written scheme of examination.

Note 4: This relates only to vessels receiving steam or pressurised medium-temperature hot water (above 100 deg C). Steam condensate vessels and pipework are not usually included on a written scheme or form part of statutory examination plant schedule; however certain components or vessels may be included at the discretion of the Competent Person (Pressure Systems).

General notes: It is recommended that all duty holders refer to the Pressure Systems Safety Regulations 2000 and the corresponding ACOP and Guidance within HSE publication L122 for definitions of terms such as “competent person” and “relevant fluid”, in addition to the general criteria for items requiring examination under a written scheme and those that do not.

It should be remembered that where a system contains a relevant fluid but a written scheme is not required, the user/owner has a duty to comply with the following components of the Pressure Systems Safety Regulations 2000:

Regulation 7 – Safe operating limits; Regulation 11 – Operation; Regulation 12 – Maintenance; and Regulation 15 – Precautions to prevent pressurisation of certain vessels.

Maintenance periodicities and requirements for pressure equipment should be contained within Agility, the maintenance management software used by NHS Lothian.