

Seamless Gas Cylinders and Pressure Vessels not taken under water – Wet Internal Service

*Note: This includes driers, filter housings, gas recovery volume tanks, sanitary and shower tanks, cylinders used for hyperbaric fire extinguishers
If the cylinders are composite material use detail sheet 10.2*

When new

Examination/Test	Category of Competent Person
Manufactured in accordance with a recognised international standard and fit for the purpose it will be used for	3 or 4

When in service

Examination/Test	Validity Period	Category of Competent Person
External visual examination	6 months	1, 2, 3 or 4
Thorough internal and external visual examination and gas leak test to maximum working pressure	15 months	3 or 4
Thorough internal and external visual examination and overpressure test to 1.5 times the maximum working pressure (or the factor required by the design code or standard if different) followed by gas leak test to maximum working pressure	5 years	3 or 4

Note:

- ◆ In many countries there are detailed national regulations concerning gas cylinders, particularly if these are transportable. Such regulations must be complied with, even if they conflict with or are more onerous than the recommendations given above.
- ◆ Hydraulic testing in situ may be impractical or undesirable. In such cases pneumatic or gas overpressure testing may be substituted.
- ◆ If testing is not hydraulic and the competent person requires it then other testing such as wall thickness measurement or acoustic emission testing may also be required.
- ◆ Some national regulations, certifying authorities or gas cylinder codes may give no option but to apply hydraulic overpressure testing.
- ◆ In all types of overpressure testing suitable safety precautions must be taken to ensure the safety of all testing personnel and others.