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Rubber and plastics hoses and hose assemblies — Hydrostatic testing

Tuyaux et flexibles en caoutchouc et en plastique — Essais hydrostatiques



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Foreword

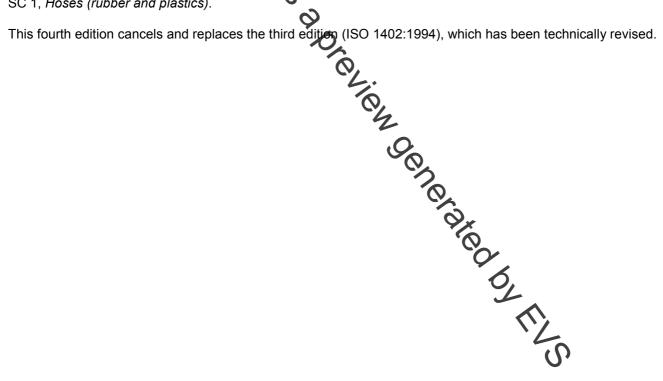
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ISO 1402 was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 1, Hoses (rubber and plastics).



Rubber and plastics hoses and hose assemblies — Hydrostatic testing

1 Scope

This International Standard specifies methods for the hydrostatic testing of rubber and plastics hoses and hose assemblies, including methods for the determination of dimensional stability.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4671, Rubber and plastics hoses and hose assemblies — Methods of measurement of the dimensions of hoses and the lengths of hose assemblies

ISO 7751, Rubber and plastics hoses and hose assemblies — Ratios of proof and burst pressure to design working pressure

ISO 8330, Rubber and plastics hoses and hose assemblies — Vocabulary

ISO 23529, Rubber — General procedures for preparing and conditioning test pieces for physical test methods

3 Terms and definitions

For the purposes of this document, the terms and definitions given in 150 8330 apply.

4 General

Unless otherwise specified, all tests shall be carried out at standard temperature (see ISO 23529).

5 Apparatus

5.1 Pressure source, capable of applying pressure at the rate specified in 7.2.2, up to the required test pressure.

5.2 Calibrated pressure gauge or pressure transducer with digital readout, chosen for each test so that the test pressure is between 15 % and 85 % of the full-scale reading.

In the interest of accuracy, calibrated pressure gauges or pressure transducers with digital readouts shall be checked at frequent intervals and the fitting of restrictors is recommended to minimize shock damage.