AS 2417, Part 2—1980
ISO 2548—1973

Australian Standard®

PUMPS—THE INTERNATIONAL ACCEPTANCE TEST CODES

Part 2—ISO 2548—CLASS C TESTS

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Association of Consulting Engineers Australia

Australian Pump Manufacturers Association Ltd

Bureau of Steel Manufacturers of Australia

Department of Public Works, N.S.W.

Engineering and Water Supply Department, S.A.

Melbourne and Metropolitan Board of Works

Metropolitan Water Sewerage and Drainage Board, N.S.W.

Snowy Mountains Hydro-Electric Authority

State Electricity Commission of Victoria

State Rivers and Water Supply Commission of Victoria

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PREFACE

This standard was prepared by the Association's Committee on Pumps as one of the series of Parts of AS 2417 to supersede AS CB9—1968. It is complementary to AS 2417, Part 1 and should be read in conjunction with it.

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STANDARDS ASSOCIATION OF AUSTRALIA

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WARNING—Terms used in this International Standard like "guarantee" or "acceptance" shall be understood in a technical but not in a legal sense. The term "guarantee", therefore, specifies values for checking purposes determined in the contract, but does not say anything about the rights or duties arising, if these values are not reached or fulfilled. The term "acceptance" does not have any legal meaning here, either. Therefore, an acceptance test carried out successfully alone does not represent an "acceptance" in the legal sense.

O INTRODUCTION

This International Standard is the second of a set of three dealing with acceptance tests of centrifugal, mixed flow and axial pumps[1]; they correspond to three classes of tests A, B and C[2]; class A is the most accurate and class C is the least accurate; the use of classes A and B is restricted to special cases when there is need to have the pump performance more precisely defined.

Attention is drawn to the fact that class B and A tests require more accurate apparatus and methods, which increase the cost of such tests.

The standard arrangements and proceduresdescribed are those to be employed for testing a pump individually, without reference to its final installation conditions or the effect upon it of any associated fittings, these being the usual conditions in which a pump is tested at the manufacturer's works.

Pump performance may be affected by conditions of the final site installation, and procedures are described for carrying out "standard tests" on certain types of installations of which an overall performance is required. The conditions in which pumps are finally installed, however, often do not permit reliable tests measurements, and recommendations are made concerningthe procedure to be adopted where the layout precludes tests in conformity with the standards, or where the tests cover the pump and the plant ancillary to the pump itself.

In this test code, all formulae are given in coherent units.

1 SCOPE AND FIELD OF APPLICATION

This International Standard constitutes a code for acceptance testing of pumps, defining the terms and quantities that are used, establishing the methods of testing and the ways of measuring the quantities involved according to class B so as to ascertain the performances of the pump and to compare them with the manufacturer's guarantee.

In general this code applies to any sizes of pumps tested with clean cold water and other liquids behaving as clean cold water such as defined in clause 8.

This code is not concerned with the structural details of the pump nor with the mechanical properties of their components.

1) In the rest of the text these types of pumps will be simply designated as "pumps".
2) ISO 2548.