

Hydraulic fluid power filter elements —

Part 2: Methods of test to verify structural integrity

UDC 621.648.5:621.22

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents

AVA

Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Mechanical Engineering Standards Committee (MEE/-) to Technical Committee MEE/186 upon which the following bodies were represented:

- Association of British Mining Equipment Companies
- Association of Hydraulic Equipment Manufacturers
- British Compressed Air Society
- British Hydromechanics Research Association
- British Steel Corporation
- British Telecommunications
- Department of Trade and Industry (National Engineering Laboratory)
- Electricity Supply Industry in England and Wales
- Engineering Equipment and Materials Users' Association
- Federation of Manufacturers of Construction Equipment and Cranes
- Health and Safety Executive
- Institution of Mechanical Engineers
- Machine Tool Industry Research Association
- Ministry of Defence
- National Coal Board

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Ball and Roller Bearing Manufacturers' Association
- British Railways Board
- British Rubber Manufacturers' Association
- Fire Offices Committee
- Hydraulic Press Manufacturers' Association
- Institute of Petroleum
- Society of British Aerospace Companies Limited
- Society of Motor Manufacturers and Traders Limited

This British Standard, having been prepared under the direction of the Mechanical Engineering Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 May 1984

© BSI 10-1999

The following BSI references relate to the work on this standard:
Committee reference MEE/186
Drafts for comment 73/30502 DC, 73/30503 DC, 73/30504 DC, 75/71993 DC and 75/71994 DC

ISBN 0 580 13872 0

Amendments issued since publication

Amd. No.	Date of issue	Comments

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Definitions	1
3 Fabrication integrity test	1
4 Material compatibility with fluids test	1
5 Collapse/burst resistance test	2
6 End load strength test	3
7 Flow fatigue test	3
Figure 1 — Apparatus and circuit for fabrication integrity test	4
Figure 2 — Apparatus and circuit for collapse/burst resistance test	4
Figure 3 — Apparatus and circuit for flow fatigue test	5
Publications referred to	Inside back cover

Foreword

This Part of this British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee and is one of a group of standards describing test methods to verify various characteristics of filter elements in hydraulic fluid power filters.

This Part of this British Standard implements and is technically equivalent to ISO 2941, ISO 2942, ISO 2943, ISO 3723 and ISO 3724, published by the International Organization for Standardization (ISO).

Part 1 of this standard, which describes the multi-pass method of test for evaluating filtration performance, is identical with ISO 4572.

A British Standard, BS 6277 implementing ISO 3968, which describes a method of test to evaluate the pressure drop versus flow characteristics of hydraulic fluid power filters, is also available.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.