First edition 2006-01-15

Industrial valves — Measurement, test and qualification procedures for fugitive emissions —

Part 1:

Classification system and qualification procedures for type testing of valves

Robinetterie industrielle — Mesurage, essais et procédures de qualification pour émissions fugitives —

Partie 1: Système de classification et procédures de qualification pour essais de type des appareils de robinetterie



ISO 15848-1:2006(E)

This is a preview of "ISO 15848-1:2006". Click here to purchase the full version from the ANSI store.

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2006

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents		Page	
Forewo	ord	iv	
Introduction		v	
1	Scope	1	
2	Normative references	1	
3	Terms and definitions		
4	Abbreviations	3	
5	Type test	4	
5.1 5.2	Test conditions Test procedures		
6	Performances classes	10	
6.1	Classification criteria		
6.2	Tightness classes	10	
6.3	Endurance classes	11	
6.4	Temperature classes		
6.5	Examples of class designation	14	
6.6	Marking	14	
7	Reporting	15	
8	Extension of qualification to untested valves	16	
Annex	A (normative) Total leak rate measurement	17	
Annex	B (normative) Leak measurement using the sniffing method	31	
Annex	C (informative) Derivation and graphs relating the stem diameter to leak rate	40	
Bibliog	graphy	48	

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 15848-1 was prepared by Technical Committee ISO/TC 153, Valves, Subcommittee SC 1, Design, manufacture, marking and testing.

ISO 15848 consists of the following parts, under the general title *Industrial valves* — *Measurement, test and qualification procedures for fugitive emissions*:

- Part 1: Classification system and qualification procedures for type testing of valves
- Part 2: Production acceptance test of valves

Introduction

The objective of this part of ISO 15848 is to enable classification of performance of different designs and constructions of valves to reduce fugitive emissions.

This part of ISO 15848 defines type test for evaluation and qualification of valves where fugitive emissions standards are specified.

The procedures of this part of ISO 15848 can only be used with the application of necessary precautions for testing with flammable or inert gas at temperature and under pressure.