

---

---

**Safety and control devices for gas  
burners and gas-burning appliances —  
Particular requirements —**

**Part 5:  
Manual gas valves**

*Dispositifs de commande et de sécurité pour brûleurs à gaz et  
appareils à gaz — Exigences particulières —*

*Partie 5: Robinets de gaz manuels*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested 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](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
Foreword .....	iv
Introduction .....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 Classes of control .....</b>	<b>2</b>
4.1 Classes of controls .....	2
4.2 Groups of controls .....	3
<b>5 Test conditions .....</b>	<b>3</b>
<b>6 Construction .....</b>	<b>3</b>
6.1 General .....	3
6.2 Construction requirements .....	3
6.3 Materials .....	4
6.4 Gas connections .....	5
6.102 Appliance connector valves .....	7
<b>7 Performance .....</b>	<b>8</b>
7.1 General .....	8
7.2 Leak-tightness .....	8
7.3 Torsion and bending .....	8
7.4 Rated flow rate .....	8
7.5 Durability .....	9
7.6 Functional requirements: Operating torque and force .....	9
7.7 Endurance .....	13
<b>8 EMC/Electrical requirements .....</b>	<b>15</b>
<b>9 Marking, installation and operating instructions .....</b>	<b>15</b>
9.1 Marking .....	15
9.2 Installation and operating instructions .....	16
9.3 Warning notice .....	17
<b>Annex A (informative) Leak-tightness test — Volumetric method .....</b>	<b>18</b>
<b>Annex B (informative) Leak-tightness test — Pressure-loss method .....</b>	<b>19</b>
<b>Annex C (normative) Conversion of pressure loss into leakage rate .....</b>	<b>20</b>
<b>Annex D (normative) Test for immunity to power-frequency magnetic fields .....</b>	<b>21</b>
<b>Annex E (normative) Specific regional requirements in European countries .....</b>	<b>22</b>
<b>Annex F (normative) Specific regional requirements in Canada and USA .....</b>	<b>23</b>
<b>Annex G (normative) Specific regional requirements in Japan .....</b>	<b>25</b>
<b>Annex AA (informative) Examples of manual gas shut-off valves .....</b>	<b>26</b>
<b>Bibliography .....</b>	<b>33</b>