



Over-pressure and under-pressure shut-off devices



AS 4632:2020

This Australian Standard® was prepared by AG-013, Components used for Gas Appliances and Equipment. It was approved on behalf of the Council of Standards Australia on 13 January 2020.

This Standard was published on 24 January 2020.

The following are represented on Committee AG-013:

- Association of Accredited Certification Bodies
- Australian Industry Group
- Energy Networks Australia
- Engineers Australia
- Gas Appliance Manufacturers Association of Australia
- Gas Energy Australia
- Gas Technical Regulators Committee
- Master Plumbers Association of Qld

This Standard was issued in draft form for comment as DR2 AS 4632:2019.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au



Over-pressure and under-pressure shut-off devices

Originated as AG 211—1976.
Republished and redesignated AS 4632—2005.
This edition 2020.

COPYRIGHT

© Standards Australia Limited 2020

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

Preface

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee, AG-013, Components Used for Gas Appliances and Equipment, to supersede AS 4632—2005, *Over-pressure and under-pressure cut off devices*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety and performance of over-pressure and under-pressure shut-off devices.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to —

- (a) continuity of satisfactory operation;
- (b) the prevention of fire hazards and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

Principal changes to this standard relate to updates with regards to industry practice and updates to the format of the standard to conform to Standards Australia policies.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
Section 1 Scope and general	1
1.1 Scope.....	1
1.2 Normative references.....	1
1.3 Terms and definitions.....	1
Section 2 Design and construction	4
2.1 Materials.....	4
2.1.1 Continuity of satisfactory operation.....	4
2.1.2 Suitability of materials for conditions of use.....	4
2.1.3 Materials in contact with gas.....	4
2.1.4 Melting point of metallic materials.....	4
2.1.5 Copper containing alloy parts.....	4
2.2 Construction.....	4
2.2.1 Continuity of satisfactory operation.....	4
2.2.2 Castings and hot pressings.....	4
2.2.3 Sealing of porous castings or cracks.....	4
2.2.4 Assembled device to be clean.....	4
2.2.5 Accidental displacement of parts.....	5
2.2.6 Attachment of knobs, handles, dials and pointers.....	5
2.2.7 Springs.....	5
2.2.8 Securing of parts together.....	5
2.2.9 Sharp edges.....	5
2.2.10 Holes for assembly or mounting.....	5
2.2.11 Permanent sealing of non-functional holes.....	5
2.2.12 Self-tapping screws.....	5
2.2.13 Application of lubricant or sealant.....	5
2.2.14 Tightening of a gland or any other adjustments.....	5
2.2.15 Threaded connection with spanner flats.....	5
2.2.16 Threaded connections.....	6
2.2.17 Flange connections.....	6
2.2.18 Connections within an appliance.....	6
2.2.19 Connections above 200 kPa.....	6
2.3 Design.....	6
2.3.1 Components requiring servicing.....	6
2.3.2 Protection of mechanism.....	6
2.3.3 Venting.....	6
2.3.4 Safety device cannot be overridden.....	6
2.3.5 Accessibility for adjustment.....	6
2.3.6 Adjusting devices.....	7
2.3.7 No reduction of gas flow area.....	7
2.3.8 Over-pressure shut-off device as part of a pressure regulator.....	7
2.3.9 Manual reset — Over-pressure and under-pressure shut-off device.....	7
2.3.10 Components requiring servicing.....	7
2.4 Markings.....	7
2.4.1 General.....	7
2.4.2 Marking of electrical connections.....	7
2.4.3 Durability of markings.....	7
2.4.4 Markings for fitting of an external sensing line.....	8
2.5 Instructions.....	8
2.5.1 General.....	8
Section 3 Performance requirements	9
3.1 General.....	9
3.1.1 Commissioning and adjustment.....	9
3.1.2 Satisfactory performance in all mounting positions.....	9

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-