



## Kitemark™ Certificate



By Royal Charter

This is to certify that:

Orseal Limited  
Lynstock Way  
Bolton  
Lancashire  
BL6 4QR  
United Kingdom

Holds Certificate Number:

KM 643579

In respect of:

**BS EN 331**

**Manually operated ball valves for gas installations**

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI:

Gary Fenton, Global Product Certification Director

First Issued: 07/11/2016

Latest Issue: 07/11/2016



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...making excellence a habit.™

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To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# Kitemark™ Certificate

No. KM 643579

**BS EN 331:2015**

**Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings.**

**Manufacturing Plant:**

ORSEAL-0047320755-002

**Product Information:**

Techseal Range

Model	Model Sizes	Connection/Actuator
Forged Body Carbon Steel Ball Valve	DN15, 25, 40, 50, 65, 80, 100	PN 16 Flanged/Lever
Cast Body Carbon Steel Ball Valve	DN15, 25, 40, 50, 65, 80, 100	PN 16 Flanged/Lever

## Supplementary Information:

<b>Gas family</b>	1st, 2nd & 3rd Families		
<b>Pressure Class</b>	MOP 20 (external to buildings)	<b>Release of dangerous substances</b>	N/A
<b>High Temperature Pressure Class:</b>	MOP 1 (internal to buildings)	<b>Resistance to high temperature</b>	≤ 150 dm <sup>3</sup> /h at 650°C for 30 min.
<b>Nominal size</b>	DN15, 25, 40, 50, 65, 80, 100	<b>High temperature resistance class</b>	Class C
<b>Temperature Class</b>	-20°C to +100°C	<b>Mechanical strength</b>	
<b>Rated Flowrate</b>	Pass	- Torque and Bending	Pass
		- Operating Torque	Pass
<b>Dimensional tolerances:</b>	±0.1 mm	- Stop resistance	Pass
<b>Internal pressure:</b>		<b>Durability</b>	
- pressure class:	20 bar (2.0 MPa)	- Endurance	Pass
- leak- tightness	≤20 cm <sup>3</sup> /h	- Resistance to low temperature	Pass
<b>Tightness (gas):</b>		- Salt spray resistance	N/A
- leak-tightness:	≤20 cm <sup>3</sup> /h	- Resistance to humidity	Pass

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## Material Specification

Component	Material Used
Body	Carbon Steel ASTM A105
End piece	Carbon Steel ASTM A105
Ball	Stainless Steel AISI 316 1.4401
Body and Ball Seals	PTFE G400 and O1/T70FKM
Stem Seal(s)	Viton (for gas use)
Stem Bush	Stainless Steel AISI 304 1.4301
Valve Stem	Stainless Steel AISI 304 1.4301
Body Seal	Graphite Washer
Handle	Steel – CS grade
Stem Nuts	Stainless Steel AISI 304 1.4301

## Model Coding System

Techseal	Item
1 or 2	Construction where 1 = Cast and 2 = Forged
A or B	Pressure Rating where A = PN16 and B = PN40
F or W	Body Style where F = Full Sized and W = Wafer
C	Body Material = Carbon Steel ASTM A105
4 or 6	Trim Material where 4 = Stainless Steel 314 and 6 = Stainless Steel 304
L	Operator – Lever
J	Bore Size – e.g. 2"
DP	Additions e.g. Drain Plug Fitted

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