



Water Regulations Approval Scheme Limited (WRAS) hereby recognises:

*Kiwa Watertec
26a Rassau Industrial Estate,
Rassau, Ebbw Vale,
Gwent
NP23 5SD*

As an Affiliated Testing Laboratory.

Reports prepared by the laboratory in accordance with the policies and procedures agreed to by the laboratory in the Laboratory Agreement, for the tests detailed in the attached Scope of Recognition, will be accepted by WRAS as evidence to demonstrate compliance with the requirements of the Water Supply (Water Fittings) Regulations*.

This recognition is valid for four years from the date of issue, unless otherwise suspended or withdrawn.

Date of Recognition: 6/10/2021

Authorised by:

A blue ink signature of Ian Hughes, written in a cursive style.

Ian Hughes
WRAS Approvals Manager



Testing to be performed at the above address only unless permitted by the Scope of Recognition. Any alteration or falsification of this certification may constitute grounds for delisting of the Laboratory. Reproduction of this certification, in whole or in part, for advertising purposes without the expressed written permission of WRAS is strictly prohibited.

*Water Supply (Water Fittings) Regulations 1999 (England & Wales), the Water Supply (Water Fittings) (Scotland) Byelaws 2014 and the Water Supply (Water Fittings) Regulations (Northern Ireland) 2009

SCOPE OF WRAS LABORATORY RECOGNITION

Laboratory Reference: KW2109

Issue no: 1

Contact Name: **David Jay**

Issue Date: 01/09/2023

Contact details: **David.jay@kiwa.com**

Detail of Recognition:

The Laboratory has satisfactorily demonstrated its compliance to ISO/IEC 17025:2017 as referenced in clause 6.2 of ISO/IEC 17065:2012 and has been verified as capable of performing tests in the following categories:

Products tested	Standard Reference / specification & Test Type
<p>Water Fittings in contact with wholesome water for the WRAS Approvals Product Scheme</p> <p>To demonstrate compliance with the requirements of the Water Supply (Water Fittings) Regulations 1999, the Water Supply (water fittings) (Scotland) Byelaws 2014, and the Water Supply (Water Fittings) Regulation (Northern Ireland) 2009.</p>	<p>Test Code Sheets:</p> <ul style="list-style-type: none"> 1111.1 Closure 1111.2 Closure 1111.3 Closure - Opening and reseating pressure test 1111.4 Closure - Temperature Conditions 1111.5 Leaktightness test 1111.6 Closure at set outlet pressure 1111.7 Closure - Diverter 1111.8 Closure under high downstream pressure 1111.9 Pressure tightness under a low reverse pressure differential 1111.10 Pressure tightness under a high reverse pressure 1111.11 Closure under low downstream pressure 1112.1 Porosity 1112.2 Porosity 1112.7 Porosity 1112.8 Porosity 1112.11 Porosity 1112.14 Porosity 1112.15 Body strength 1113.1 Joint effectiveness 1113.2 Joint effectiveness 1211.2 Endurance 1211.3 Endurance 1211.4 Endurance 1211.5 Endurance test 1211.7 Endurance 1211.14 Endurance 1211.15 Flushing device physical endurance and leakage 1211.16 Endurance 1211.17 Performance test of air bubble unvented hot water storage systems 1211.21 Endurance - remote/non-touch method of actuating the water supply 1212.1 Accelerated ageing 1311.1 Deflection

1311.3	Deflection prevention (inspection only)
1311.5	Deflection
1312.1	Deformation
1312.2	Deformation
1312.3	Bending strength
1312.7	Impact
1312.9	Deformation
1312.10	Impact
1313.4	Verification of valve not jamming
1313.7	High velocity test
1314.1	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.7	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.8	Tension - (Resistance to pull-out of assembled joints - multiple pull)
1314.9	Tension - (Resistance to pull-out of assembled joints – single pull)
1314.10	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.11	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.12	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.13	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.14	Tension - (Resistance to pull-out of assembled joints - single pull)
1314.15	Tension - (Resistance to pull-out of assembled joints - single pull)
1315.1	Torque - operating mechanism
1315.2	Torque - Connection and Disconnection
1315.4	Torque - backnuts
1315.6	Torque - backnuts
1411.3	Flushing device: chemical endurance
1412.1	Corrosion protection
1512.8	Consumption
1611.1	Prevention of contamination - primary to secondary circuits
1611.2	Prevention of waste from frost damage
1611.5	Means for connection and disconnection
1611.8	Visual inspection - seal to be readily renewable
1611.9	Visual inspection - fixing of washer plate
1611.10	Visual inspection - means of operation
1611.11	Visual inspection - means of renewing seat and washer, or seal and washer, if so required
1611.14	Visual inspection - manually operated easing gear
2114.2	Opacity
2211.1	Contamination Test
2211.2	Contamination - vacuum when submerged
2211.3	Contamination - mixing of primary and secondary
2211.11	Vacuum test tightness of the upstream check valve
2212.3	Vacuum / Dimensional
2212.4	Contamination - antisiphonage test
2212.6	Vacuum test
2212.10	Dimensional - Air gap to drain
2212.13	Vacuum test without moving element
2212.14	Vacuum test
2212.15	Vacuum test
2213.1	Dimensional
2213.3	Contamination - dimension of air vent - gas/water air space

	2213.4	Contamination - air gap dimension
	2213.5	Visual Inspection - compatibility of cartridge and housing dimensions, sealing etc
	2213.7	Visual inspection
	2213.10	Visual inspection - check valve operation
	2213.12	Dimensional
	2213.15	Dimensional
	2213.16	Dimensional
	2213.17	Dimensional
	2213.18	Dimensional
	2213.19	Dimensional
	5011.1	Measurement of linear dimensions
	5011.6	Water Seal depth
	5021.3	Measurement of dimension
	5031.1	Dimension - capacity
	5031.2	Dimension - capacity
	6001.1	Marking for identification

END