

Schedule of Accreditation

Issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>8896 Accredited to ISO/IEC 17025:2017</p>	Kiwa Ltd trading as Kiwa Watertec Laboratory	
	Issue No: 013 Issue date: 20 April 2021	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Tap ware, industrial boiler fittings, pressure reducing valves, pressure relieve valves, expansion vessels. Metal pipes, piping systematic pollution devices and heating devices	Determination of water tightness	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 1111.1,1111.2,1111.3,1111.4, 1111.5,1111.6,1111.7,1111.8, 1111.9, 1111.10,1111.11,1112.1, 1112.2,1112.7, 1112.8, 1112.11, 1112.14, 1113.1, 1113.2, 2213.13 BS 1212-2:1990 Clause 26
Sanitary tap ware, float valves	Determination of resistance against torque	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 1315.1, 1315.2, 1315.4, 1315.6 BS 1212-2:1990 Clause 27
Sanitary tap ware, valves, pressure relief valves, storage cisterns, urinals, WC outlet valves, check valves	Visual tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 1311.3, 1611.1, 1611.2, 1611.5, 1611.11, 1611.14, 6001.1, 2213.5, 2213.7, 1611.8, 1611.9, 1611.10, 2212.10, 2213.1,2213.3, 2212.4, 2213.5,2213.7, 2213.10, 2213.12, 2213.15, 2213.16, 2213.17, 2213.18, 2213.19, 5011.1



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Sanitary tap ware, valves, pressure relief valves, storage cisterns, urinals, WC outlet valves, check valves	Visual tests (continued)	BS EN 13077: 2003 BS EN 13078: 2003 BS EN 13079: 2003 BS EN 14622: 2005 BS EN 14623: 2005 BS 1212-2:1990 Clause 4 BS 1212-2:1990 Clause 9 BS 1212-2:1990 Clause 10 BS 1212-3:1990 Clause 4 BS 1212-4:1991 Clause 4
	Physical/ Mechanical tests Screw Threads Inlet Connections Backnuts Bodies Body Coupling Nuts Backplate Nuts Backplates Backplates Plungers Levers Float Adjusters & Thumb Screws Split Cotter Pins Discharge Arrangements Inlet Connections Seats Backnuts Float arm or float aram assesmbly Discharge arrangements Distortion and deflection Hydraulic pressure Backflow Flow General Dimensions Inlet connections Backnuts torque Water level adjustment Backnuts Float adjustment Discharge arrangements Marking Inlet shank and backnut distortion	BS 1212-2:1990 Clause 12 BS 1212-2:1990 Clause 13 BS 1212-2:1990 Clause 14 BS 1212-2:1990 Clause 15 BS 1212-2:1990 Clause 16 BS 1212-2:1990 Clause 17 BS 1212-2:1990 Clause 18 BS 1212-2:1990 Clause 19 BS 1212-2:1990 Clause 22 BS 1212-2:1990 Clause 23 BS 1212-2:1990 Clause 24 BS 1212-2:1990 Clause 25 BS 1212-3:1990 Clause 8 BS 1212-3:1990 Clause 9 BS 1212-3:1990 Clause 10 BS 1212-3:1990 Clause 11 BS 1212-3:1990 Clause 12 BS 1212-3 1990 Clause 13 BS 1212-3:1990 Clause 14 BS 1212-3:1990 Clause 15 BS 1212-3:1990 Clause 16 BS 1212-4:1991 Clause 10 BS 1212-4:2016 Clause 5.1 BS 1212-4:1991 Clause 11 BS 1212-4:2016 Clause 5.2 BS 1212-4 2016 Clause 5.3 BS 1212-4:2016 Clause 5.4 BS 1212-4:1991 Clause 12 BS 1212-4:1991 Clause 13 BS 1212-4:1991 Clause 14 BS 1212-4:2016 Clause 5.5 BS 1212-4 2016 Clause 7 BS 1212-4:1991 Clause 15



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Sanitary tap ware, valves, pressure relief valves, storage cisterns, urinals, WC outlet valves, check valves	Physcial/ Mechanical tests (cont'd) Hydraulic pressure Backflow Vacuum testing for backflow prevention Flow Endurance test Delayed action Inlet Valves Float	BS 1212-4:1991 Clause 16 BS 1212-4:2016 Clause 6.1 BS 1212-4:1991 Clause 17 BS 1212-4:2016 Clause 6.2 BS 1212-4:1991 Clause 18 BS 1212-4:2016 Clause 6.3 BS 1212-4:1991 Clause 19 BS 1212-4:2016 Clause 6.4 BS 1212-4:2016 Clause 6.5 BS 1212-4:1991 Clause 20
EC cistems, storage cisterns, cylinders, expansion vessels	Capacity	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 5031.1, 5031.2
Testing of check valves	Determinance of high velocity, verification of valves not jamming	n accordance with WRAS Test & Acceptance criteria Test Code Sheets 1112.15, 1312.3, 1313..4 1313.7
Sanitary appliances, fittings, backflow prevention devices	Vacuum tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 2211.2, 2212.3, 2212.6, 2212.13, 2212.14, 2212.15, 2212.20 2213.12, 2213.14, 2213.15, 5011.6, 5021.3 BS EN 13076: 2003 BS 1212-2:1990 Clause 28



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Fittings	Deformation test	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 1312.2, 1312.9
Fittings	Tension tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 1314.1, 1314.7, 1314.8, 1314.9, 1314.10, 1314.11, 1314.12, 1314.13, 1314.14, 1314.15, 4001.13 Test Methods BS 864.5, EN1254.02, EN 13618, BS 7291-2, BS 7291-3, BS 7291-4 AS/AZW 34099: 2006 Clause 8.4
Storage cisterns	Ageing test	In accordance with WRAS Test & Acceptance criteria Test Code Sheet 1212-1
	Performance tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheet 1311.1, 1312.1, 1312.7, 1312.10, 2211.11



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Taps, float operated valve, self-closing taps, water heaters, WC outlet valves, flushing devices	Endurance tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheets 1211.2,1211.3, 1211.4, 1211.5, 1211.7, 1211.15 1211.16, 1211.21, 1411.3, 4001.10, 4001.12 BS EN 200: 2008 Clauses 12.1, 12.3 BS EN 817:2008 Clause 12.3 BS EN 816 Clause 13.3 BS 1212-3: 1990 Clause 17 and Appendix H BS 1212-4 2016 Clause 6.4 and Annex G BS 1212-2:1990: Clause 29 BS 1212-2:1990 Clause 30
Hot water Unvented storage cylinders	Endurance tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheet 1211.17
Various types of Valves	Determination of water tightness closure tests	BS 750 : 1984 Clause 7.1 BS 750 : 2012 Clause 11 BS EN 1074/6 : 2008 Clause 5.2.2 BS 1010 : 1973 Part 2 Clause 1.7.2 BS 2580 : 1979 Clause 18 BS 2879 : 1980 Clause 18 BS 5155 : 1984 Clause 12 BS EN 593 : 2011 Clause 4.2.4.2 BS 5163 : 1986 Clause 8, 18.2, 19.1 and 191.2 BS5163/1 2004 refer to EN 1074/1 EN 1074/1 Clause 5.2.2 BS 5163/1 : 2004 Referring to EN 12266/1 BS EN 1171 2002 Clause 4.2.3 BS EN 12288 : 2003 Clause 4.3.2 BS 5412/2 BS 5413/2 :1976 Clause 9 Hydraulic test only BS 5412 : 1996 Clause 8.2.2 Hydraulic test BS 7942 : 2011 Clause 7.1 BS EN 200 : 2008 Clause 8.3



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Various types of Valves	Determination of water tightness closure tests (continued)	BS EN 816 : 1996 Clause 9.2.2 BS EN 817 : 2008 Clause 8.3 BS EN 1111 : 1998 Clause 9.3 BS EN 1287 : 1999 Clause 9.3 BS 5433 : 1976 Clause 8 BS 6675 : 1986 Clause 12 BS EN 13789 2002 Clause 4.2.4 BS EN 13828 : 2003 Clause 7.4.1 BS EN 12266-1 2012 Clause A3 and A5 BS EN 12266-2 2012 Clause A.2 and A5 BS EN 13457 2013 Clause 5.2
Various types of Valves	Determination of water tightness of body	BS 750 : 1984 Clause 7.1 BS 750 : 2012 Clause 11 BS EN 1074/6 : 2008 Clause 5.2.1 BS 1010 : 1973 Part 2 Clause 1.7.1 BS 2580 : 1979 Clause 18 BS 2879 : 1980 Clause 18 BS 5155 : 1984 Clause 12 BS EN 593 : 2011 Clause 4.2.4.2 BS 5163 : 1986 Clause 19.1 BS5163/1 2004 refer to EN 1074/1 BS EN 1074/2 2000 clause 5.1.1 body pressure test BS EN 1171 2002 Clause 4.2.1 BS EN 12516-3 2002 body pressure test BS EN 12288 : 2003 Clause 4.3.1 BS 5412/2 BS 5413/2 : 1976 Clause 9 Hydraulic test only BS 5412 : 1996 Clause 8.2.3 Hydraulic test only BS 7942 : 2011 Clause 9.2.3 BS EN 200 : 2008 Clause 8.4 BS EN 816 : 1996 Clause 9.2.3 BS EN 817 : 2008 Clause 8.4 BS EN 1111 : 1998 Clause 9.5 BS EN 1287 : 1999 Clause 9.5 BS 5433 : 1976 Clause 8 BS 5728 Part 3 1984 ISO 4064/31983 Clause 10.1.3.2 BS 6675 : 1986 Clause 12 BS EN 13789 2002 Clause 4.2.1



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Various types of Valves	Determination of water tightness of Body (continued)	BS EN 13828 : 2003 Clause 5 BS EN 13547 2013 Clause 5.1 BS EN 12266-1 2003 A4.3
	Deflection tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheet 1311.5
Ice making machines	Consumption	In accordance with WRAS Test & Acceptance criteria Test Code Sheet 1512.8
Hot water storage cylinders	Pressure tests	BS EN 12897 Clause 4.4.1, 4.4.2 and clause 6.2.2 BS 12897:2016 Clauses 4.3.1, 4.3.2 and 6.2.9 BS 1566-1 2002 Clause 16.1 and 16.2
Hot water storage cylinders	Performance tests	BS EN 12897 Clause 6.2.3 and A.4.2 to A.5.2 BS 12897:2016 Clauses 6.2.4, 6.2.5 and A4.2 to A5.1 BS 1566-1 2002 Clause 14, 15 and Annex A BS 12897:2016
	Energy loss tests	BS EN 12897 Clause 6.2.7 and Annex B BS 12897:2016 Clause 6.2.7 and Annex B BS 1566-1 2002 Clause 12 and Annex B
Check Valves	Determination of performances and watertightness of check valves	BS EN 13959 2004 Clauses 11.1, 11.3, 11.4, 11.5, 11.6, 11.7 11.11 and 11.12



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Plumbing Items in Contact with water distribution network	Opacity tests	In accordance with WRAS Test & Acceptance criteria Test Code Sheet 2114.2 BS EN 578:1994 BS 2782-11: Method 1104A: 1994 BS EN ISO 7686:2005
END		