



CERTIFICATE OF ACCREDITATION

This is to attest that

NUTEK SYSTEMS (HK) LIMITED

UNIT A-D, 13/F, UNIVERSAL INDUSTRIAL CENTRE, 23-25 SHAN MEI STREET,
FO TAN, HONG KONG SAR

Testing Laboratory TL-944

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date May 25, 2023



A handwritten signature in black ink that reads 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

NUTEK SYSTEMS (HK) LIMITED

www.nuteksystems.com

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Accredited to ISO/IEC 17025:2017

Effective Date May 25, 2023

Chemical	
AS/NZS 4020:2018 App. H & I	Testing of products for use in contact with drinking water. Test method - Extraction procedures for in-line fittings and end-of-line fittings
Physical	
AS/NZS 4020:2018 App. H & I	Testing of products for use in contact with drinking water. Test method - Extraction procedures for in-line fittings and end-of-line fittings
Laboratory method NTP ICP 001 using ICP-MS	Extraction of Metals from the Valve Cartridge (Non-metallic)
Laboratory method NTP VIS 001	Visual Inspection of Electroplating Material
Laboratory method NTP XRF 001 using XRF	Determination of elemental composition of copper alloy (Al, Sb, As, Bi, Cd, Cr, Co, Fe, Pb, Mn, Ni, P, Si, Sn, Zn, Cu) using XRF
Laboratory method NTP XRF 002 using XRF	Determination of elemental composition of brass (Al, Sb, As, Bi, Co, Fe, Pb, Mn, Ni, P, Si, Sn, Zn, Cu) using XRF
Laboratory method NTP XRF 003 using XRF	Determination of elemental composition of gunmetal (Al, Sb, As, Bi, Cd, Cr, Co, Fe, Pb, Mn, Ni, P, Si, Sn, Zn, Cu) using XRF
Laboratory method NTP XRF 004 using XRF	Determination of elemental composition of bronze (Al, Sb, As, Bi, Cd, Cr, Co, Fe, Pb, Mn, Ni, P, Se, Si, Sn, Zn, Cu) using XRF
Laboratory method NTP XRF 005 using XRF	Determination of elemental composition of stainless steel (P, Cr, Ni, Mo, Mn, Si, W, Cu, Nb, Ti, Fe) using XRF
Laboratory method NTP XRF 006 using XRF	Determination of elemental composition of steel (P, Mn, Fe) using XRF
Plumbing	
AS 1172.1	Sanitary plumbing products, Part 1: Water closet pans
AS 1172.2	Sanitary plumbing products, Part 2: Flushing devices and cistern inlet and outlet valves
AS 1172.3	Sanitary plumbing products, Part 3: Personal hygiene fixtures and appliances - Bidets and bidettes
AS 4032.1	Water supply - Valves for the control of heated water supply temperatures, Part 1: Thermostatic mixing valves - Materials design and performance requirements
AS 4032.4	Water supply - Valves for the control of heated water supply temperatures, Part 4: Thermostatically controlled taps for the control of heated water supply temperatures
AS 5200.037.2	Plumbing and drainage products Flow controllers for use with heated or cold water systems
AS/NZS 3497	Drinking water treatment units – Plumbing requirements
AS/NZS 3499	Water supply - Flexible hose assemblies
AS/NZS 3662	Performance of showers for bathing

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AS/NZS 3718	Water Supply – Tap Ware
AS/NZS 3982	Urinals
AS/NZS 4020:2005	Testing of products for use in contact with drinking water (Applicable section: Appendix H & I)
ASME A112.19.2	Ceramic plumbing fixtures
ASME A112.19.2/CSA B45.1	Ceramic Plumbing Fixtures
BS 336	Specification for fire hose couplings and ancillary equipment
BS 1212-1	Specification for piston type float operated valves (copper alloy body) (excluding floats)
BS 1212-2	Float operated valves. Specification for diaphragm type float operated valves (copper alloy body) (excluding floats)
BS 1212-3	Specification for diaphragm type float operated valves (plastics bodied) for cold water services only (excluding floats)
BS 1212-4	Specification for compact type float operated valves for WC flushing cisterns (including floats)
BS 3402	Specification for quality of vitreous china sanitary appliances
BS 3457	Specification for materials for water tap and stopvalve seat washers
BS 5041-1	Fire hydrant systems equipment. Specification for landing valves for wet risers
BS 5041-2	Fire hydrant systems equipment. Specification for landing valves for dry risers
BS 5041-3	Fire hydrant systems equipment. Specification for inlet breechings for dry riser inlets
BS 5154	Specification for copper alloy globe, globe stop and check, check and gate valves
BS 5163-1	Valves for waterworks purposes. Predominantly key-operated cast iron gate valves. Code of practice
BS 6391	Specification for non-percolating layflat delivery hoses and hose assemblies for fire fighting purposes
BS 7357	7.5 L WC flushing cisterns
BS EN 33	WC pans and WC suites – Connecting dimensions
BS EN 200	Sanitary tapware. Single taps and combination taps for water supply systems of type 1 and type 2. General technical specification
BS EN 200 Cl. 10 in conjunction with PUB S&R 9.1. a.a.	Determination of flow rate at the following dynamic flow pressures: 0.5 bars, 1.0 bar, 1.5 bars, 2.0 bars, 2.5 bars, 3.0 bars, 3.5 bars, 4.0 bars, 4.5 bars, 5.0 bars and 5.5 bars.
BS EN 248	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr
BS EN 593	Industrial valves. Metallic butterfly valves
BS EN 671-1	Fixed firefighting systems. Hose systems. Hose reels with semi-rigid hose
BS EN 694	Fire-fighting hoses. Semi-rigid hoses for fixed systems
BS EN 816	Sanitary tapware. Automatic shut-off valves PN 10
BS EN 817	Sanitary tapware. Single taps and combination taps for water supply systems of type 1 and type 2. General technical specification
BS EN 817 Cl. 10 in conjunction with PUB S&R 9.2. a.c.	Determination of flow rate at the following dynamic flow pressures: 0.5 bars, 1.0 bar, 1.5 bars, 2.0 bars, 2.5 bars, 3.0 bars, 3.5 bars, 4.0 bars, 4.5 bars, 5.0 bars and 5.5 bars.
BS EN 997	WC pans and WC suites with integral trap

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BS EN 1074-1	Valves for water supply. Fitness for purpose requirements and appropriate verification tests. General requirements;
BS EN 1074-2	Valves for water supply. Fitness for purpose requirements and appropriate verification tests. Isolating valves
BS EN 1092-1	Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, PN designated. Steel flanges
BS EN 1092-2	Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, PN designated. Cast iron flanges
BS EN 1092-3	Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, PN designated. Copper alloy flanges
BS EN 1111	Sanitary tapware. Thermostatic mixing valves (PN 10). General technical specification
BS EN 1111 Cl. 13.2 in conjunction with PUB S&R 9.3. a.	Determination of flow rate at the following dynamic flow pressures: 0.5 bars, 1.0 bar, 1.5 bars, 2.0 bars, 2.5 bars, 3.0 bars, 3.5 bars, 4.0 bars, 4.5 bars, 5.0 bars and 5.5 bars.
BS EN 1171	Industrial valves. Cast iron gate valves
BS EN 1286	Sanitary tapware. Low pressure mechanical mixing valves. General technical specifications
BS EN 1287	Sanitary tapware. Low pressure thermostatic mixing valves. General technical specifications
BS EN 1563	Founding. Spheroidal graphite cast irons (Applicable section: Clause 9.1-Tensile test)
BS EN 1567	Building valves. Water pressure reducing valves and combination water reducing valves. Requirements and tests.
BS EN 1947	Fire-fighting hoses. Semi-rigid delivery hoses and hose assemblies for pumps and vehicles
BS EN 1984	Industrial valves. Steel gate valves
BS EN 12163	Copper and copper alloys. Rod for general purposes
BS EN 12165	Copper and copper alloys. Wrought and unwrought forging stock
BS EN 12201-4	Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE). Valves
BS EN 12266-1	Industrial valves. Testing of metallic valves Pressure tests, test procedures and acceptance criteria. Mandatory requirements
BS EN 12288	Industrial valves. Copper alloy gate valves
BS EN 12334	Industrial valves. Cast iron check valves
BS EN 12420	Copper and copper alloys. Forgings
BS EN 13547	Industrial valves. Copper alloy ball valves
BS EN 13709	Industrial valves. Steel globe and globe stop and check valves
BS EN 13789	Industrial valves. Cast iron globe valves
BS EN 13828	Building valves. Manually operated copper alloy and stainless-steel ball valves for potable water supply in buildings. Tests and requirements (Excluded: Clauses 7.5 & 7.7)
BS EN 14506	Devices to prevent pollution by backflow of potable water. Automatic diverter. Family H, type C
BS EN 15091	Sanitary tapware. Electronic opening and closing sanitary tapware
BS EN 16767	Industrial valves. Steel and cast iron check valves
BS EN ISO 1452-4	BS EN ISO 1452-4

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EN 200	Sanitary tapware. Single taps and combination taps for water supply systems of type 1 and type 2. General technical specification
EN 248	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr
EN 593	Industrial valves. Metallic butterfly valves
EN 816	Sanitary tapware. Automatic shut-off valves PN 10
EN 817	Sanitary tapware. Single taps and combination taps for water supply systems of type 1 and type 2. General technical specification
EN 997	WC pans and WC suites with integral trap
EN 1074-1	Valves for water supply. Fitness for purpose requirements and appropriate verification tests. General requirements;
EN 1074-2	Valves for water supply. Fitness for purpose requirements and appropriate verification tests. Isolating valves
EN 1111	Sanitary tapware. Thermostatic mixing valves (PN 10). General technical specification
EN 1171	Industrial valves. Cast iron gate valves
EN 1286	Sanitary tapware. Low pressure mechanical mixing valves. General technical specifications
EN 1287	Sanitary tapware. Low pressure thermostatic mixing valves. General technical specifications
EN 1561	Founding. Grey cast irons
EN 1563	Founding. Spheroidal graphite cast irons (Applicable section: Clause 9.1-Tensile test)
EN 1567	Building valves. Water pressure reducing valves and combination water reducing valves. Requirements and tests.
EN 1984	Industrial valves. Steel gate valves
EN 12163	Copper and copper alloys. Rod for general purposes
EN 12165	Copper and copper alloys. Wrought and unwrought forging stock
EN 12201-4	Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE). Valves
EN 12266-1	Industrial valves. Testing of metallic valves Pressure tests, test procedures and acceptance criteria. Mandatory requirements
EN 12288	Industrial valves. Copper alloy gate valves
EN 12334	Industrial valves. Cast iron check valves
EN 12420	Copper and copper alloys. Forgings
EN 13547	Industrial valves. Copper alloy ball valves
EN 13709	Industrial valves. Steel globe and globe stop and check valves
EN 13789	Industrial valves. Cast iron globe valves
EN 13828	Building valves. Manually operated copper alloy and stainless-steel ball valves for potable water supply in buildings. Tests and requirements (Excluded: Clauses 7.5 & 7.7)
EN 14506	Devices to prevent pollution by backflow of potable water. Automatic diverter. Family H, type C
EN 15091	Sanitary tapware. Electronic opening and closing sanitary tapware
EN 16767	Industrial valves. Steel and cast iron check valves
EN ISO 1452-4	Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure. Unplasticized poly(vinyl chloride) (PVC-U). Valves

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EN ISO 6892-1:2009	Metallic materials. Tensile testing. Method of test at room temperature
GB 5135.17	Automatic sprinkler systems – Part 17: Pressure reducing valves
GB/T 12245	Methods of performance test for pressure reducing valves
GB/T 12245 in conjunction with GB/T12244	Methods of performance test for pressure reducing valves in conjunction with GB/T 12244 general requirements for pressure reducing valves
GB/T 13927	Industrial valves – Pressure Testing
GB/T 13927 in conjunction with GB/T12244	Industrial valves – Pressure Testing in conjunction with GB/T 12244 general requirements for pressure reducing valves
HK WSD Voluntary Water Efficiency Labelling Scheme on Flow Controllers	Voluntary Water Efficiency Labelling Scheme on Flow Controllers
HK WSD Voluntary Water Efficiency Labelling Scheme on Showers for Bathing	Voluntary Water Efficiency Labelling Scheme on Showers for Bathing
HK WSD Voluntary Water Efficiency Labelling Scheme on Urinal Equipment	Voluntary Water Efficiency Labelling Scheme on Urinal Equipment
HK WSD Voluntary Water Efficiency Labelling Scheme on Water Closet	Voluntary Water Efficiency Labelling Scheme on Water Closets
HK WSD Voluntary Water Efficiency Labelling Scheme on Water Taps	Voluntary Water Efficiency Labelling Scheme on Water Taps
ISO 6182.17	Fire protection – automatic sprinkler systems – part 17: Requirement and test methods for pressure reducing valves
ISO 6892-1	Metallic materials. Tensile testing. Method of test at room temperature
JIS A4422	Toilet seat with shower unit
Laboratory method NTP TS 001	Water Temperature Stability for Taps and Mixer
MS 147	Specification for quality of Vitreous China Sanitary Appliances. (First Revision)
MS 795-1	WC Flushing Cisterns. – Part 1: Specification. (Second Revision)
MS 1461	Specification for Draw Off Taps with Metal Bodies for Water Service
MS 1522	Vitreous China Water Closet Pans. – Specification. (Fourth Revision)
MS 1799	Urinals. – Specification
MS 2545	Flush Valve: Specification.
PUB S&R 9.6	Requirements for urinal flush valves
PUB S&R 9.7	Requirements WC flush for valves
SA TS 100	Vacuum WC pans, vacuum urinals and interface valves intended for use with vacuum drainage systems and designs
SPAN TS 3004	Water Taps – Single Taps and Combination Taps - Specification

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SPAN TS 3005	Shower Outlet for Sanitary Tapware for Water Supply System - Specification
SS 448-2	Performance of draw-off taps with metal or plastic bodies for water services - Water tightness and pressure resistance characteristics
SS 448-3	Performance of draw-off taps with metal or plastic bodies for water services - Hydraulic characteristics
SS 448-3 Cl. 8 in conjunction with PUB S&R 9.1. b.a.	Determination of flow rate at the following dynamic flow pressures: 0.5 bars, 1.0 bar, 1.5 bars, 2.0 bars, 2.5 bars, 3.0 bars, 3.5 bars, 4.0 bars, 4.5 bars, 5.0 bars and 5.5 bars.
SS 448-4	Performance of draw-off taps with metal or plastic bodies for water services – Mechanical and endurance characteristics
SS 574-1	Specification for dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity - WC flushing cisterns
SS 574-2	Specification for dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity - WC pans
UL 1468	Direct Acting Pressure Reducing and Pressure Restricting Valves
UL 1739	Pilot-Operated Pressure-Control Valves for Fire-Protection Service
WIS 4-52-01 Appendix B	Specification for polymeric anti-corrosion (barrier) coatings
WMTS-051	Bidet douche seats
WMTS-425	Water closet suite with integral odour control device
WMTS-459	Waterless urinals
WMTS-469	Waterless or limited flush urinals – With an integral sealing device
WMTS-516	Water closet pan and flushing device with included macerating and lifting plant
WMTS-526	Flushing sinks