

FINAL REPORT

Report ID : 356792

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2022-CSR-6 : EasyFit and TrueFit range (Representative Sample HSN06).

Project Reference : PT-5067

Product Designation : EasyFit and TrueFit range (Representative Sample Hex Nipple HSN06).

Composition of Product : Polyamide 6 Glass Fibre Reinforced - DURETHAN BKV 15F (see attachments).

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Fittings for Conveyance of Potable Water.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, H, 6.8.

Project Completion Date : 07-Mar-2023

Project Comment : Samples received 10-Oct-2022, testing commenced 21-Oct-2022. Fittings tested by immersion to achieve an exposure of approximately 6560 mm²/L, equivalent to an in-the-pr duct exposure with 0.01 scaling factor applied. See attachment for product range.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

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Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested at the end-use exposure (immersion in 1000 mL).
D – Appearance	Passed when tested at the end-use exposure (immersion in 1000 mL).
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure of 15,000 mm ² /L.
F – Cytotoxic Activity	Passed when tested at the end-use exposure (immersion in 1000 mL).
H – Metals	Passed when tested at the end-use exposure (immersion in 1000 mL).
6.8 – Organic Compounds	Passed when tested at the end-use exposure (immersion in 1000 mL).

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

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Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115
Analytical Quality Control	

Summary Comment : Not applicable.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 369234

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2023-CSR-3 : Prod Test: Hansen Easy Fit Compression fittings (MD)

Project Reference : PT-5232

Product Designation : Hansen Easy Fit Compression Fittings (HMDC16 - 16mm Representative Model)

Composition of Product : Polypropylene (see attachment).

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Water Pipe Fitting.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 31-Aug-2023

Project Comment : Samples received 12-May-2023, testing commenced 15-May-2023. Product range to include 16mm to 110mm sizes.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 369234

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

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Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 324316

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2021-CSR-3 : Prod Test: Hansen Easyfit ID Compression range – ½" to 2"

Project Reference : PT-4698

Product Designation : Hansen Easyfit ID Compression Range (½" Straight Coupling Representative Sample)

Composition of Product : Polypropylene (BA160E Black-Borealis HMDIDC Coupling Body & F20-03 Orange, Mitsubishi Engineering Plastics, Pipe Bush + Seal Washer).

Product Manufacturer : Hansen Products (NZ) Ltd., Union East Ste, Whangarei, NEW ZEALAND.

Use of Product : In-line/Water Pipe Fitting.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 10-Nov-2021

Project Comment : Product sample received on the 29-Jul-2021 and testing commenced 07-Aug-2021.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Michael Glasson
APPROVED SIGNATORY



Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance with ISO/IEC 17025



FINAL REPORT

Report ID : 324316

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
D – Appearance	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed at the in-use exposure.
F – Cytotoxic Activity	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
H – Metals	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	Reference Method
C	T0320-01	AS/NZS 4020:2018
D	TO029-01 & TO018-01	APHA 2120c & APHA 2130b
E	TO014-03	APHA 4500 O G
F	TM-001	AS/NZS 4020:2018
G	TM-002	AS/NZS 4020:2018
H	TIC-006	EPA 200.8

Organic Test Methods

Test(s) in Clause	Test Method	Reference Method
Clause 6.8	TMZ-M36	USEPA524.2
	EP239	USEPA521
	EP132-LL	USEPA_SW846-8270D
	EP075C	USEPA_SW846-8270D
	EP075ASIM	USEPA_SW846-8270D

FINAL REPORT

Report ID : 414147

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2025-CSR-1 : Prod Test: Tapping Saddle

Project Reference : PT-5986

Product Designation : MD Tapping Saddle (HTSMD3225 Representative Model)

Composition of Product : Injection Moulded Nylon (see attachment for additional information).

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Tapping Saddle Water Fitting.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 28-Nov-2025

Project Comment : Samples received 08-Aug-2025, testing commenced 02-Sep-2025.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance
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Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/about-us/quality-management>

FINAL REPORT

Report ID : 414147

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	TMZ-M07	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

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FINAL REPORT

Report ID : 414147

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115
Analytical Quality Control	

Summary Comment : The AWQC is not NATA accredited for the following tests: Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/about-us/quality-management>

FINAL REPORT

Report ID : 346424

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2022-CSR-1 : Prod Test: Ball Valve

Project Reference : PT-4869

Product Designation : Hansen Full Flow Ball Valve (DN15 Representative Model).

Composition of Product : Polyamide 6, Glass Fibre Reinforced (see attachment for additional information).

Product Manufacturer : Hansen Products (NZ) Limited, Union East St, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Water Valve.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 12-Sep-2022

Project Comment : Samples received on the 14-Feb-2022, testing commenced 01-Mar-2022.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



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Notes

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FINAL REPORT

Report ID : 346424

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure with a 0.66 scaling factor applied.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

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Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : Product range to include DN15 to DN50 (15mm to 50mm).

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 366934

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2023-CSR-1 : Prod Test: Foot Valve

Project Reference : PT-5205

Product Designation : Hansen Foot Valve (25mm representative model)

Composition of Product : See attachments.

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Water Valve for Conveyance of Potable Water.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 28-Jul-2023

Project Comment : Samples received 21-Mar-2022, testing commenced 11-Apr-2023. Product range to include 25mm to 63mm sizes.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
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Notes

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2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 366934

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 366934

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115
Analytical Quality Control	

Summary Comment : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 366942

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2023-CSR-2 : Prod Test: Check Valve

Project Reference : PT-5206

Product Designation : Hansen Check Valve (25mm representative model)

Composition of Product : See attachments.

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Water Valve for Conveyance of Potable Water.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 28-Jul-2023

Project Comment : Samples received 21-Mar-2022, testing commenced 11-Apr-2023. Product range to include 25mm to 63mm sizes.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance
with ISO/IEC 17025 - Testing



Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 366942

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 366942

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>



Internet: www.awqc.com.au

Email: producttesting@awqc.com.au

FINAL REPORT

Report ID : 358118

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED
Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing
AWQC Reference : 130354-2022-CSR-5 : Prod Test: Fast Flo Valve
Project Reference : PT-5066
Product Designation : Hansen FastFlo Valve (25 mm)
Composition of Product : Polyacetal Resin and Brass Arm (see attachments).
Product Manufacturer : Hansen Products (NZ) Limited, Union East St, Whangarei, NEW ZEALAND.
Use of Product : End-of-Line/Water Valve.
Sample Selection: As provided by the submitting organisation.
Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**
Product Type : Composite
Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)
Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.
Project Completion Date : 29-Mar-2023
Project Comment : Samples received 21-Oct-2022, testing commenced 21-Oct-2022.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance
with ISO/IEC 17025 - Testing



Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>



FINAL REPORT

Report ID : 358118

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y



Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance
with ISO/IEC 17025 - Testing



Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>



FINAL REPORT

Report ID : 358118

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : Not applicable.



Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance
with ISO/IEC 17025 - Testing



Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 362253

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2022-CSR-8 : Prod Test: Superflo

Project Reference : PT-5147

Product Designation : Superflo Valve (25mm Representative Sample)

Composition of Product : See attachments.

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Piston Valve for Conveyance of Potable Water.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 18-May-2023

Project Comment : Samples received 19-Dec-2022, testing commenced 30-Jan-2023.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
Chemical and Biological Testing
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Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 362253

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested by immersion at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 362253

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 362252

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2022-CSR-7 : Prod Test: Maxflo

Project Reference : PT-5146

Product Designation : MaxFlo Valve (25 mm Representative Sample)

Composition of Product : See attachments.

Product Manufacturer : Hansen Products (NZ) Ltd, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Water Valve for Conveyance of Potable Water.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 18-May-2023

Project Comment : Samples received 19-Dec-2022, testing commenced 30-Jan-2023.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 362252

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested in-the-product with a scaling factor of 0.01 applied.
D – Appearance	Passed when tested in-the-product with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed when tested by immersion at the end-use exposure.
F – Cytotoxic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed when tested in-the-product with a scaling factor of 0.01 applied.
H – Metals	Passed when tested in-the-product with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed when tested in-the-product with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 362252

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 372767

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2023-CSR-4 : Prod Test: Hansen Leveller Valve

Project Reference : PT-5265

Product Designation : Hansen Leveller Valve

Composition of Product : Polyamide 6 - Lanxess BKV30F (See attachment).

Product Manufacturer : Hansen Products NZ Ltd., Union East St, Whangarei, NEW ZEALAND.

Use of Product : End-Use/Water Valve.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 25-Oct-2023

Project Comment : Samples received 07-Jun-2023, testing commenced 20-Jun-2023.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
Chemical and Biological Testing
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Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 372767

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested end-use exposure (in contact with a minimum volume of 30L).
D – Appearance	Passed when tested end-use exposure (in contact with a minimum volume of 30L).
E – Growth of Aquatic Micro-organisms	Passed when tested end-use exposure.
F – Cytotoxic Activity	Passed when tested end-use exposure (in contact with a minimum volume of 30L).
G – Mutagenic Activity	Passed when tested end-use exposure (in contact with a minimum volume of 30L).
H – Metals	Passed when tested end-use exposure (in contact with a minimum volume of 30L).
6.8 – Organic Compounds	Passed when tested end-use exposure (in contact with a minimum volume of 30L).

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 372767

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : Not applicable.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 352987

Report Information

Submitting Organisation : 00109376 : HANSEN PRODUCTS (NZ) LIMITED

Account : 130354 : Hansen Products (NZ) Limited - AS/NZS 4020 Testing

AWQC Reference : 130354-2022-CSR-4 : Prod Test: Rain Relief Valve - Slo Flo

Project Reference : PT-5031

Product Designation : Rain Relief Valve - Slo-Flo

Composition of Product : Plastic - see attachments.

Product Manufacturer : Hansen Products (NZ) Limited, Union East St, Whangarei, NEW ZEALAND.

Use of Product : In-Line/Diaphragm Valve.

Sample Selection: As provided by the submitting organisation.

Testing Requested : **AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**

Product Type : Composite

Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)

Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.

Project Completion Date : 29-Dec-2022

Project Comment : Sample received 16-Sep-2022, testing commenced on the 16-Sep-2022. Product range to include RapidFlo and Slo-Flo.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO AS/NZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER



Corporate Accreditation No.1115
Chemical and Biological Testing
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Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 352987

Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested at the end-use exposure (assembly in contact with a minimum volume of 5000 mL).
D – Appearance	Passed when tested at the end-use exposure (assembly in contact with a minimum volume of 5000 mL).
E – Growth of Aquatic Micro-organisms	Passed at the end-use exposure.
F – Cytotoxic Activity	Passed when tested at the end-use exposure (assembly in contact with a minimum volume of 5000 mL).
G – Mutagenic Activity	Passed when tested at the end-use exposure (assembly in contact with a minimum volume of 5000 mL).
H – Metals	Passed when tested at the end-use exposure (assembly in contact with a minimum volume of 5000 mL).
6.8 – Organic Compounds	Passed when tested at the end-use exposure (assembly in contact with a minimum volume of 5000 mL).

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y



Corporate Accreditation No.1115
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Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>

FINAL REPORT

Report ID : 352987

Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115
Analytical Quality Control	

Summary Comment : Not applicable.

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>