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VIPAC PLUMBING PRODUCTS LABORATORY 279 Normanby Road, Port Melbourne VIC 3207. Phone: (+61 3) 9647 9700			
Client	Puratap	Report No	30P-10-0183-TRP-587320-1 - Report

TEST REPORT – Water Filter	
ITEM TESTED:	Water Filter
TESTED FOR:	Puratap 60 North Terrace Kent Town South Australia
TESTED TO:	Section 5 Clauses 5.2, 5.3 & 5.4 of AS/NZS 3497:1998
PRODUCT:	Water Filter Assembly
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PREPARED BY  Date 22 March 2011
Mr. John Tsougranis
Project Engineer

REVIEWED BY  Date 22 March 2011
Mr. Adam Wegmann
NATA Signatory

1. DOCUMENT CONTROL

The following details pertain to test reports with document number 30P-10-0183-TRP-587320-1 – Report.

Issue Date	Revision No.	Revision Description
12 October 2010	00	Initial Issue
22 March 2011	01	Supersedes initial issue

2. INTRODUCTION

The VIPAC Plumbing Products Laboratory tested a water filter to AS/NZS 3497:1998 and AS/NZS 3707:2001. The water filter assembly was selected and supplied for testing by Puratap.

3. APPLICABLE DOCUMENTS

The tests and data analysis were carried out in accordance with the following standards.

- 3.1 AS/NZS 3497:1998 Drinking water treatment units – Plumbing requirements
- 3.2 AS/NZS 3707:2001 Method for testing pressure cycling resistance of pipes and fittings



4. SPECIMEN DESCRIPTION

The specimen is designated in this report as follows:

Sample Code	Description
GI 2600	Puratap water Filter Assembly, product code: GI 2600 Maximum rated pressure = 3500kPa.



5. PERFORMANCE

Clause 5.2 of AS/NZS 3497:1998 – Hydrostatic test

All systems, appliances and components subjected to permanent hydrostatic pressure shall not leak when subjected to a hydrostatic pressure test. Pressure shall be increased at a constant rate that ensures that a pressure of 2070 kPa is reached within 5 min. A water temperature of 13°C to 24°C shall be used and the specified pressure (2070 kPa) shall be held for 15 min.

This system, appliance or component shall be tested with the outlet plugged, after it has been purged of air.

Sample Code	Requirement	Result	Conformity to Clause 5.2 of AS/NZS 3497:1998
GI 2600	The system, appliance or component be pressurised to 2070 kPa within 5 min and held for a further 15min at that pressure.	No leaks or other signs of failure detected.	Conforms

Clause 5.3 of AS/NZS 3497:1998 – Endurance test

All systems, appliances and components, excluding point of use appliances, shall be subjected to the following test: Cycling testing of 100,000 pressure cycles (10,000 cycles for disposable units) at a minimum pressure cycle frequency of 30±2 cycles/minute at a temperature of 23 ±2°C and at a minimum and maximum pressure range of 0 to 1034 kPa, with a ratio as follows:

- The ratio of the pressure rise/pressure fall rates shall be 2:1
- The 'on time' (i.e. rise + dwell times) ratio shall be 1:1 in accordance with AS 3707.

Sample Code	Requirement	Result	Conformity to Clause 5.3 of AS/NZS 3497:1998
GI 2600	According to the pressure cycling determined in accordance with AS 3707:2001 and at a max pressure of 1034 kPa the device must endure 100,000 cycles.	No cracking, leaking, distortion or any other failure detected.	Conforms

Clause 5.4 of AS/NZS 3497:1998 – Burst pressure

All systems, appliances and components subjected to permanent hydrostatic pressure shall meet a minimum burst pressure of 3.5 MPa or the nominated maximum working pressure (see Clause 4.3). The system, appliance or component shall be tested with the outlet plugged, after it has been purged of air.

Sample Code	Requirement	Result	Conformity to Clause 5.4 of AS/NZS 3497:1998
GI 2600	The system, appliance or component must be capable of withstanding an internal pressure of 3.5 MPa or the manufacturer's stated maximum operating pressure without leaking, cracking or rupturing.	Held pressure of 3.5MPa with no leaks detected.	Conforms*
	Where systems, appliances and components subjected to permanent hydrostatic pressure do not have a working pressure in excess of 1200 kPa, the system, appliance or component has to include a suitable certified pressure control device.	No PLV supplied.	

*Note: Although sample has not been supplied with an accredited PLV, the appliance was tested to a maximum working pressure of 3.5MPa and therefore exceeds the requirements of a unit rated at 1200kPa.