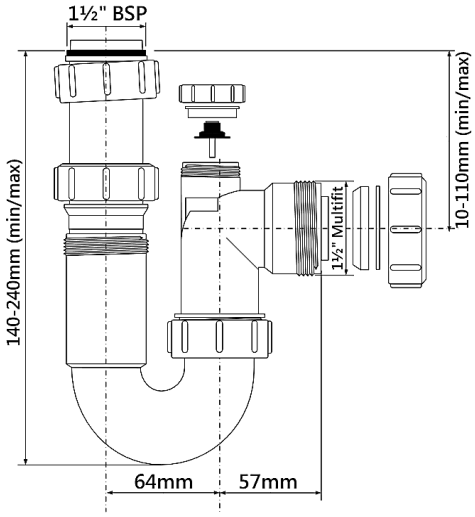
Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk
Since 1949

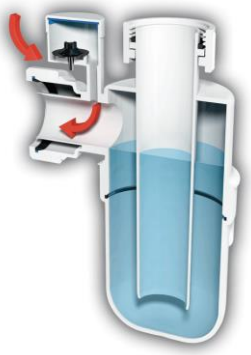
PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	McAlpine (UK) 1½" anti-syphon tubular swivel trap with adjustable inlet tested on BS3943:1979; test report J4206G
Dimensions	Refer to drawing
Model	ASC10V
Material / Finish	Polypropylene / White Finish
Manufacturer	McAlpine & Co. Ltd
Source	Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012
E-mail	acme@acmesanitary.com.hk
Website	www.acmesanitary.com.hk

Illustration/ Drawing





Product description

· McAlpine ASC10V Size: 1.5 inch. 75mm Water Seal.
· Universal Compression Outlet suits all plastic, copper and lead pipe.
· Adjustable Inlet makes trap suitable for all domestic repair, maintenance and improvement work.
· Anti-Syphon Valve neutralises negative symphonic pressure and eliminates gurgling.
· Manufactured in polypropylene.

General

· By drawing air through the Valve, the Silentrap neutralises syphonic pressure before it reaches the seal of the Trap and therefore provides the equivalent of a ventilated system without the installation of costly and unsightly ventilation pipes.
· The Silentrap has been most rigorously tested and will not unseal, even under the most abnormal conditions.
· The Silentrap should continue to be effective irrespective of the distance between the appliance and the soil pipe.

Operation

· Whenever syphonic conditions develop, the negative pressure causes the Valve to rise, allowing air to be drawn into the discharge pipe. The pressure is thereby neutralised before it can have any effect on the water seal within the Trap. On cessation of the syphonic action, the Valve closes, making the Silentrap air and watertight.

Advantages

· The major advantage of the Silentrap over Resealing Traps is that because the air is drawn through the Valve and not through the water seal, gurgling is eliminated and a much quieter discharge is ensured.
· Eliminates the need for secondary ventilation.
· Silentrap Valves are available on a wide range of Bottle, Tubular and Bath Traps.
· Silentraps allow for greater flexibility in plumbing design.

Note:

** All information of the above is for the reference only. No prior notice is made if any changes.* *Source: McAlpine & Co. Ltd*

NUTEK SYSTEMS, LTD.
Unit F, 7/F., Universal Ind. Ctr.
19-21 Shan Mei Street,
Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2605 5736 Fax: (852) 2692 0798

TEST REPORT

TITLE : Testing of Waste Trap

OUR REFERENCE : J4206G

DESCRIPTION OF SAMPLE : 40mm Plastic (PP) Anti-syphon Trap

SAMPLE SUBMITTED BY :

BRAND : McAlpine (UK origin)

MODEL : ASC10V

BODY MARKING : McALPINE BS3943 SILENTRAP McALPINE REG. DESIGN PAT.PEND.

METHOD OF TESTS : BS3943 : 1979

PERIOD OF TESTS : 2nd to 7th January 1998

RESULTS : -

1. DIMENSIONS

	Sample	BS Requirement
Nominal Size (mm)	40	/
Minimum Cross-sectional area of waterway (mm^2)	962.1	958 min.
Depth of Water Seal (mm)	85.0	75 min.
Internal Diameter of Inlet Tubing (mm)	35.0	/
Internal Diameter of Outlet Tubing (mm)	35.2	/

2. HYDROSTATIC PRESSURE TEST (external leakage and inlet attachment test)

	Test Pressure (bar)	Duration (sec)	Remark
Sample	0.5	15	Pass
BS Requirement	0.5	15	/

3. WATER SEAL TEST

	Test Pressure (Pa)	Duration (sec)	Remark
Sample	690	10	Pass
BS Requirement	690 ± 20	10	/

/.....P.2

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TEST REPORT

OUR REFERENCE NO. J4206G (P.2)

4. FLOW OF WATER TEST

	Water flow rate (litre/min)	Remark
Sample	80.0	Pass
BS Requirement	50 min.	/

5. INTERNAL CLEARANCE TEST

Pass ; the trap is capable of accommodating the passage of a steel ball of diameter 20mm, when tested by passing the ball right through from inlet to outlet.

6. IMPACT TEST

Trap components	Impact energy (J)	Weight of striker (kg)	Falling height (m)	Remark
Body	21	1.8	1.19	Pass
Coupling nuts	14	1.8	0.79	Pass
Other parts	7	1.8	0.4	Pass

Note : all samples showed no sign of crack or fracture after the test.

7. ANTI-SIPHONIC TEST

a) Self Siphonic Test
Water seal before test = 85.0mm
Water seal after test = 85.0mm
Remark : Pass

b) Induced Siphonic Test (both one sink & two sinks discharging)
Water seal before test = 85.0mm
Water seal after test = 85.0mm
Remark : Pass

8. SUMMARY OF RESULTS (apply only to the samples tested)

Dimension - Satisfactory
Hydrostatic Pressure Test - Satisfactory
Water Seal Test - Satisfactory
Flow of Water Test - Satisfactory
Internal Clearance Test - Satisfactory
Impact test - Satisfactory
Anti-siphonic Tests - Satisfactory

DATE : 11th February 1998

CERTIFIED BY : E.A. Bruges

E.A. Bruges
BSc PhD CEng FIMarE
FIMechE FHKIE MASME
MASHRAE

Director & General Manager

Nutek Systems is a testing agency, approved by the Water Authority and Government Supplies Department, for testing water supply fittings.

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TEST REPORT

OUR REFERENCE NO. J4206G (P.3)

Appendix A - Anti-Siphonic Tests for Waste Traps

Tests methods : A row of three cisterns were used for the purpose of testing the effect of siphonic actions on the waste trap. The cisterns are spaced at 22" (560mm) apart as shown in Fig. 1. The following tests were carried out to measure the water seal in the trap before and after the siphonic tests.

a) Self siphonic tests : -
The water seal in waste trap A was first measured. With cistern A filled with water (6.5 lit) and allowed to discharge through the waste trap, the water seal was then measured again to check for any loss due to the self siphonic action.

b) Induced siphonic test : -
(i) With One neighbouring cistern discharging

The water seal in waste trap A was first measured. With cistern B filled with water (6.5 lit) and allowed to discharge to create an induced siphonic action, the water seal was measured again.

(ii) With Two neighbouring cisterns discharging

The water seal in waste trap A was first measured. Cisterns B & C were filled with water (6.5 lit each) and both allowed to discharge at the same time to create an induced siphonic action on the waste trap under test. The water seal was measured again.

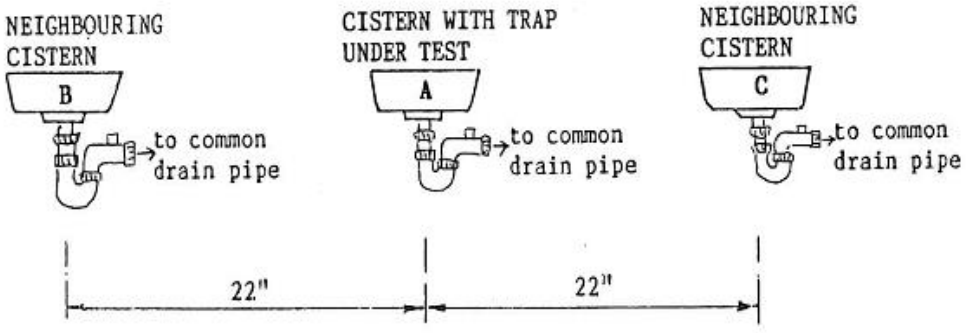

Figure 1. Arrangement of Anti-siphonic Tests

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ACME SANITARY WARE CO., LTD. 2388 7111

TEST REPORT

OUR REFERENCE NO.J4206G (P.4)

Appendix -- Diagrammatic Sketch of 40mm Anti-syphon Trap