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McALPINE Plumbing Products

PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	McAlpine (UK) 1½" Anti-syphon adjustable inlet bottle trap; test report J4206B
Dimensions	Height: 180~280mm
Model	C10AV
Material	Plastic
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
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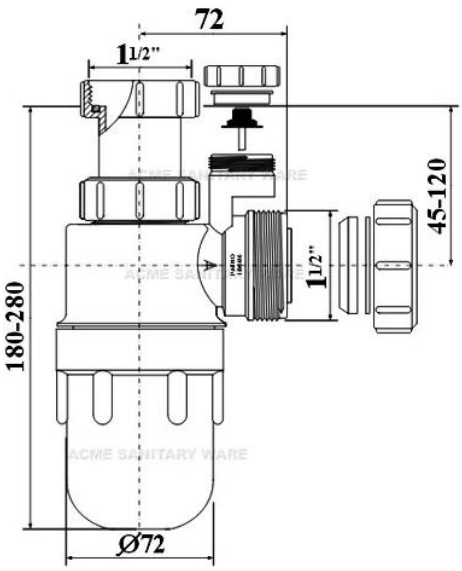
Illustration/ Drawing

Description: 1½" Anti-Syphon (Silentrap) Adjustable Inlet Bottle Trap with Multifit Outlet
Size: 1½"
Anti Syphon: Yes
Adjustable Inlet: Yes
Additional Info: Adjustable Inlet makes Trap suitable for domestic repair, maintenance and improvement work. Anti-Syphon Valve neutralises negative syphonic pressure and eliminates gurgling



Note:

** All information of the above is for the reference only. No prior notice is made if any changes.*

NUTEK SYSTEMS, L

TEST REPORT

TITLE : Testing of Waste Trap

OUR REFERENCE : J4206B

DESCRIPTION OF SAMPLE :

SAMPLE SUBMITTED BY :

BRAND : McAlpine (UK origin)

MODEL : C10AV

BODY MARKING : McALPINE PAT No1220982 McALPINE
B.S.3943 SILENTRAP PAT No2041422

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)	80.0	75 min.
Internal Diameter of Inlet Tubing (mm)	35.9	/
Internal Diameter of Outlet Tubing (mm)	35.0	/

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

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4. FLOW OF WATER TEST

	Water flow rate (litre/min)	Remark
Sample	77.1	Pass
BS Requirement	50 min.	/

5. INTERNAL CLEARANCE TEST

Pass : the trap is capable of accommodating the passage of a steel ball of diameter 10mm, 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 = 80mm
Water seal after test = 80mm
Remark : Pass

b) Induced Siphonic Test (both one sink & two sinks discharging)
Water seal before test = 80mm
Water seal after test = 80mm
Remark : Pass

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

Dimension - Satisfactory
Hydrostatic Preasure 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.

NUTEK SYSTEMS, LT

TEST REPORT

OUR REFERENCE NO. J42068 (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.

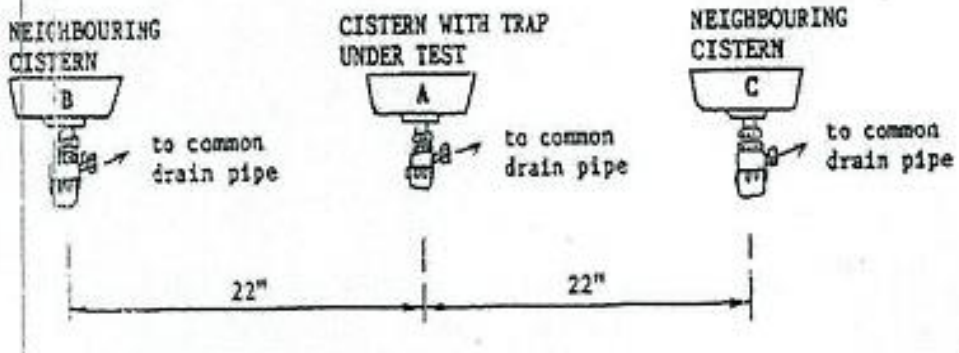

Figure 1. Arrangement of Anti-siphonic Tests

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TEST REPORT

OUR REFERENCE NO.J4206B (P.4)

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