



PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

**SANITARY WARE SPECIFICATION SHEET**

Item Descriptions	McAlpine (UK) 1½" 40mm Adjustable Inlet Tubular Swivel anti-siphonic W-Trap 75mm Water Seal with 1½"Multifit Outlet and 135° swivel inlet connection; tested on BS3943:1979 ; test report JI3236-1& JI3236-2	Illustration/ Drawing
Dimensions	Refer to drawing	
Model	WM4V	
Finish/ Finish	ABS / White Finish	
Manufacturer	McAlpine (UK)	
Source	Ka Shing Enterprises (H.K) Limited Mr. Ivan Lau / Mr. GilmanYuen	
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**75mm Water Seal Adjustable Inlet Tubular Swivel ‘P’ Trap with 1½” Multifit Outlet and 135° swivel inlet connection for the discharge from a domestic appliance via TeeVent**

75mm Water Seal

1½” Multifit Compression Outlet suits all plastic, copper and lead pipes

Can be used with TeeVent system

Can accept discharge from a washing and/or dishwashing machine(s)

Supplied with blank plug allowing trap to function as a normal sink trap until the domestic appliances are connected

Available as Anti-Syphon (Silentrap). Add suffix “V” to product code.

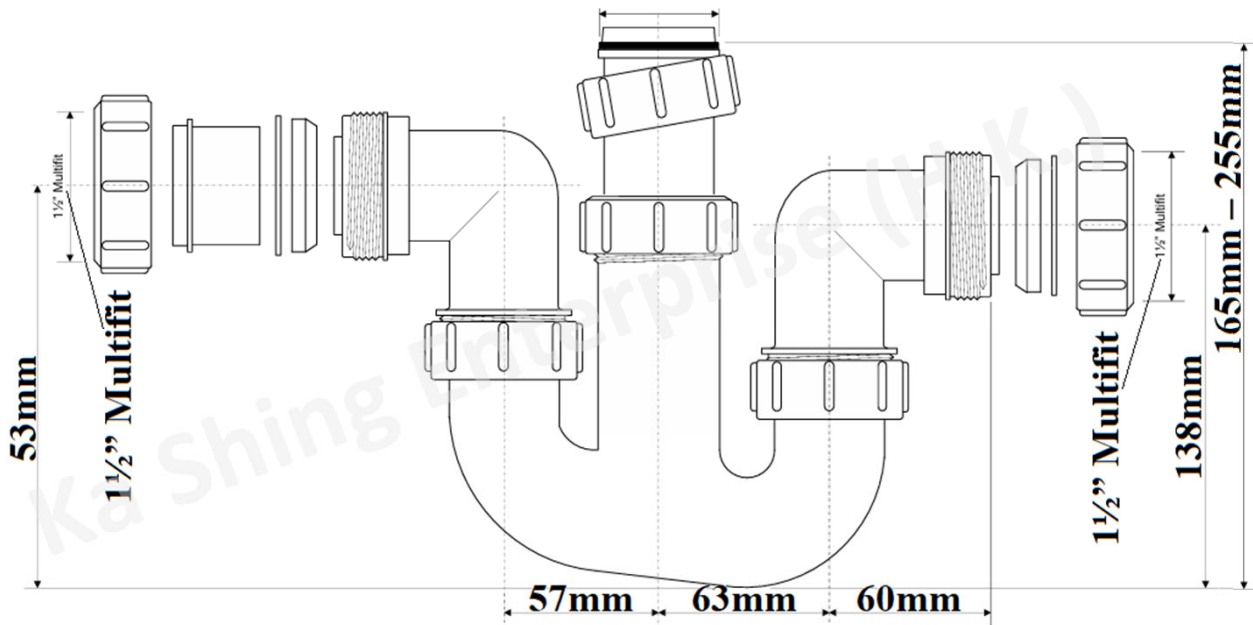
Manufactured in polypropylene

Conforms to BS3943:1979

Note:

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

## 1½" BSP Spigot



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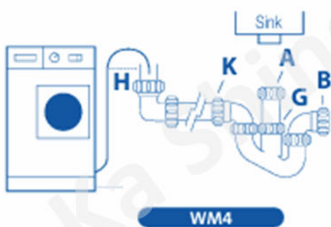
## DOMESTIC APPLIANCE TRAPS 1½" x 75mm WATER SEAL INSTALLATION INSTRUCTIONS

### GENERAL

- Domestic appliance traps provide the facility to accept the discharge from a washing or dishwashing machine and are suitable for new and existing installations.
- In all cases a blank cap, plug, or blank nozzle is provided which means that should the appliance not be connected at the time of installation, the trap will function as a normal sink trap whilst economically providing an easily accessible point for the future installation of an appliance.
- The TeeVent System, which incorporates a non-return valve, provides an air break and enables the waste system to be sealed. This system has the advantage over a standpipe arrangement in that should a blockage occur, the non-return valve prevents flooding.

When installing domestic appliance traps, care should be taken to observe the instructions of the manufacturer of the appliance, particularly with regard to the height of the discharge hose and the incorporation of an air break or vent to atmosphere. All waste pipes should be installed in compliance with the requirements of The Code of Practice for Sanitary Pipework (BS5572) and should be connected to the traps as detailed overleaf.

### Connecting into sink trap by forming a standpipe



- Disconnect Multifit nut and washers (K) from trap and put aside blank cap.
- Connect trap inlet nut (A) to sink waste outlet. Nut (G) allows vertical height adjustment.
- Connect trap outlet nut (B) to waste pipe as illustrated below.
- Ascertain from appliance instructions the height (H) the standpipe should be from the floor and select a suitable position adjacent to the appliance.
- Form a vertical standpipe with 1½" waste pipe and using pipe and fittings connect to trap at (K). Pipe and fittings additional to illustration may be required between the appliance and the trap.
- Ensure that all pipework is either clipped or secured both vertically and horizontally.
- Place the appliance discharge hose into the standpipe.
- Test the installation. If the discharge from the appliance overflows the pre-formed standpipe it may be that the length of the standpipe is too short to accept the initial surge of water. In such cases fit the TeeVent system as above.

#### NOTE:

An air break is provided through the standpipe.

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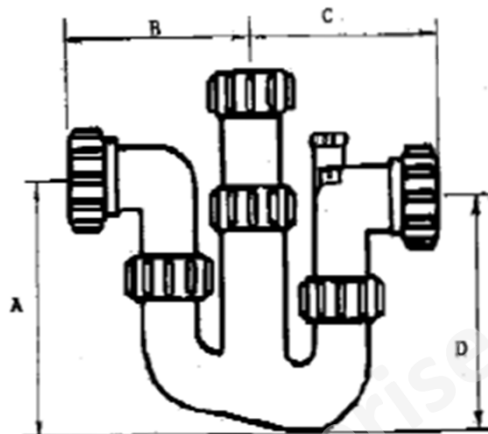
## TEST REPORT

TITLE : Testing of Pipe Fitting  
OUR REFERENCE NO. : J13236-1  
DESCRIPTION OF SAMPLE : 40mm Plastic anti-siphonic "W" trap  
SAMPLE SUBMITTED BY :

BRAND : McAlpine  
COUNTRY OF ORIGIN : U.K.  
MODEL : WM4V  
METHOD OF TEST : BS3943: 1979  
PERIOD OF TESTS : 17<sup>th</sup> to 21<sup>st</sup> November 2008

RESULTS: - (apply only to the sample tested)

1. DIMENSIONS. (all dimensions are in millimetres unless otherwise stated)



		Sample	BS Requirement
Nominal size		40	/
Depth of water seal		84.5	≥ 38 or ≥ 75
Length	A	143.8	/
	B	131	/
	C	127	/
	D	135	/



## TEST REPORT

OUR REFERENCE NO. J13236-1 (P.2)

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

	Test pressure (bar)	Duration (s)	Remark
Sample	0.5	15	Pass
BS Requirement	0.5	15	/

### 3. WATER SEAL TEST

	Test pressure (Pa)	Duration (s)	Remark
Sample	690	10	Pass
BS Requirement	690 ± 20	10	/

### 4. FLOW OF WATER TEST

	Water flow rate (litre/min)	Remark
Sample	60.8	Pass
BS Requirement	≥ 50	/

### 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 component	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

### 7. SUMMARY OF RESULTS (apply only to the sample tested)

Dimensions -- Satisfactory  
Hydrostatic pressure test -- Satisfactory  
Water seal test -- Satisfactory  
Flow of water test -- Satisfactory  
Internal clearance test -- Satisfactory  
Impact test -- Satisfactory

Date: 24th November 2008 Authorized signature:

Samson W.K. Yiu

(Director)

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



# NUTEK SYSTEMS, LTD.

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## TEST REPORT

TITLE : Testing of Pipe Fitting  
OUR REFERENCE : J13236-2  
DESCRIPTION OF SAMPLE : 40mm Plastic anti-siphonic "W" trap  
SAMPLE SUBMITTED BY :

BRAND : Mc Alpine  
COUNTRY OF ORIGIN : U.K.  
MODEL : WM4V  
METHOD OF TEST : Anti-siphonic tests  
PERIOD OF TESTS : 17<sup>th</sup> to 21<sup>st</sup> November 2008

RESULTS:- (apply only to the sample tested)

### ANTI-SIPHONIC TESTS


The side inlet of each Mc Alpine floor drain sample was sealed and the test was then performed in accordance with the procedures listed in the Appendix.

Test	Depth of water seal	
	Before test	After test
1) Self-siphonic test	84.5	84.5
2) Induced siphonic test	with one neighbouring cistern discharging	84.5
	with two neighbouring cisterns discharging	84.5

Remark : Satisfactory

Date : 24<sup>th</sup> November 2008 Authorized signature : \_\_\_\_\_

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

  
Samson W.K. Yiu

( Director )



## TEST REPORT

OUR REFERENCE NO. J13236-2 (P.2)

### Appendix - Anti-siphonic Tests for Waste Trap

**Test methods** : A row of three cisterns were used for the purpose of testing the effect of siphonic actions on the waste trap. The cisterns were spaced at 22" (560mm) apart as shown in Fig. 1. The following tests were carried out to measure the water seal in the trap of the sample before and after the siphonic tests; the side inlet of each trap was sealed by plug:

a) Self siphonic tests :-

The water seal in the trap of sample A was first measured. Cistern A was filled with water (6.5 lit) and allowed to discharge through the sample, the water seal of the sample was then measured again to check for any loss due to the self siphonic action.

b) Induced siphonic test :-

1. With one neighbouring cistern discharging

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

2. With two neighbouring cisterns discharging

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

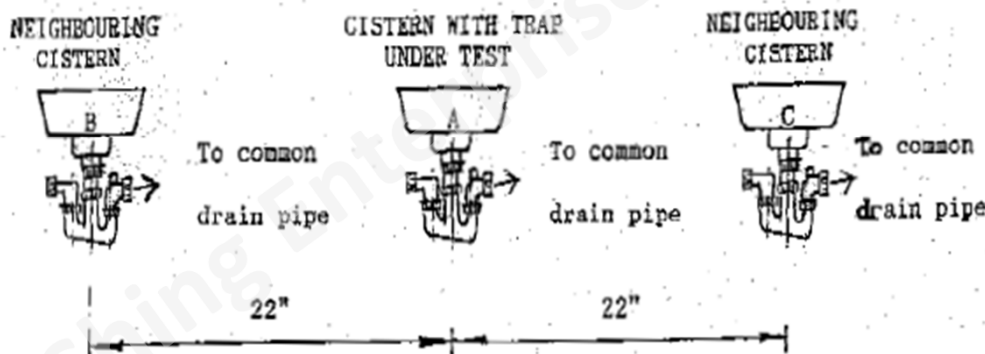


Figure 1 - Arrangement of cisterns for anti-siphonic test