

Constant
Flow Rate
Regardless
of Pressure



Est. 1963



Domestic and commercial water savings

Maric flow control valves automatically maintain a fixed, maximum constant flow rate, and are often used to save water in homes, motels and commercial buildings in the following outlets;

- **Domestic Showers & Basins** - Saving water in the home.
- **Showers • Kitchen sinks • Bathroom basins and laundry troughs**
Controlled flow can prevent scolding or freezing, when someone uses too much cold or hot water.
- **Drinking Fountains** - Controlled stream prevents frustration at the drinking fountain.
- **Toilet Cisterns** - Prevents the potential "continuous flush" operation if fill rate is too fast.
- **Water Heaters** - Keeping flow below a pre set maximum ensures gas & electric instantaneous heaters can heat to a sufficiently hot & advertised temperature.

For most domestic applications, the use of kwyflo type valves is recommended for more quiet operation.

Flow control of shower heads is the green thing to do

Save water and costly hot water in the home

Controlled flow in the garden can reduce wastage

www.maric.com

Telephone:

08 8431 2281

(+61 8 8431 2281)

Facsimile:

08 8431 2025



Maric Constant Flow Valves

Constant Flow Rate Regardless of Pressure



Est. 1963

(Adelaide, Australia 2019)

Maric flow control valves automatically maintain a fixed, maximum constant flow rate, and are often used to save water in homes, motels and commercial buildings in the following outlets;

- Showers • Kitchens Sinks • Bathroom Basins

The following calculations demonstrate how an average home can save \$ 1207.00 (Australian Dollars) per year after installing Maric flow controllers to just the shower alone. The fitting of flow controllers to kitchen and bathroom basins, etc., will further increase savings.

Assumptions:

• Family size	4 people
• 4 x 10 minute showers per day	40 minutes
• Shower consumption without Maric valve	15 litres per minute, x 40 = 600 litres of warm water
• Average ambient water temperature	16° C
• Average shower water temperature	43° C
• Cost of water	1 Kilo litre = \$ 3.37
• Cost of electricity	\$0.219 per unit (1 unit = 1 KiloWatt Hour)
• 1 KiloWatt Hour (KWH) heats 100 litres	8.5° C (this is a known constant)

Water Saving Calculations:

Assume a 7 lpm shower flow controller is installed. 8 lpm will be saved, x 40 minutes = 320 litres per day. 320 x 365 days = 117,000 Litres per year saved.

*117 Kilo litres x \$ 3.37 per KL = **\$394.00 per year saved.***

Electricity Saving Calculations:

Lift in temperature required is 27° C (43° C shower temp, minus 16° C incoming temp)

If 1.0 KWH heats 100L by 8.5° C,
Therefore 1.0 KWH heats 31.5 litres 27° C
Therefore 3714 KWH heats 117 Kilo litres (saving) by 27° C

*3714 KWH x \$0.219 per KWH = **\$813.00 per year saved.***

www.maric.com

Telephone:
08 8431 2281
(+61 8 8431 2281)

Facsimile:
08 8431 2025

Total Annual Savings:

Savings per year Water	\$ 394.00
Savings per year Electricity	\$ 813.00
	\$ 1207.00 total annual savings per hotel room or family home in the shower only.

Further savings will be made by installing valves in the kitchen and bathroom basins also.



Conclusion; If Maric valves retail in Adelaide for around 30 Dollars, it will take less than one month for the valve pay for itself!

Maric Constant Flow Valves

Constant Flow Rate Regardless of Pressure



Est. 1963

(Dubai U.A.E. 2015)

Water Waste Occurs:

- When users are not concerned about waste or the high cost of water –e.g. “House Help”, “Hotel Guests”, “Children”, etc.
- When two or more taps are simultaneously in use and one is closed down, flow rate in the one’s that are open might increase, creating waste.
- When the water pressure in pipes is very high and the water tap would need to be adjusted to reach the desirable flow rate. In this adjustment period considerable amount of water could be wasted.

Maric flow control valves automatically maintain a fixed, maximum constant flow rate, and are often used to save water in homes, hotels and commercial buildings in the following outlets:

- **Bath Showers • Toilet Showers • Kitchens Sinks • Basins • Garden Irrigation**

The following calculations demonstrate how an average home can save Dhs. 1140.00 per year after installing Maric flow controllers to just the shower alone. The fitting of flow controllers to kitchen and bathroom basins, etc., will further increase savings.

Assumptions:

• Family size	4 people
• 4 x 10 minute showers per day	40 minutes
• Average water consumption in shower	15 litres per minute, x 40 = 600 litres, or 159 gallons of warm water
• Average ambient water temperature	25° C
• Average shower water temperature	40° C
• Cost of water & sewerage combined	1.0 U.S. gallon (3.785 litres) = Dhs. 0.041
• Cost of electricity	Dhs. 0.345 per KiloWatt Hour
• 1 KiloWatt Hour (KWH) heats Avg. 100 litres	8.5° C
• Shower water heating required	For approximately half the year only.

Water Saving Calculations:

With a 7 lpm shower flow controller installed, 8 lpm will be saved, x 40 minutes = 320 litres per day. (84 gallons)
 84 gallons x 365 days = 30,660 gallons per year saved. (117 Kilolitres)

30,660 gallons @ Dhs. 0.041 per gallon = Dhs. 1257.06 per year saved.

Electricity Saving Calculations:

Lift in temperature required =15°C

If Avg. 100 litres heated 8.5°C = Electric consumption of 1.0 KWH
 > 57 litres heated 15.0°C = Electric consumption of 1.0 KWH
 therefore 117000 litres heated 15.0°C = Electric consumption of 2050.0 KWH

Assuming water heaters are used for only half the year due to ambient temperature conditions in Dubai
 = 2050.0 KWH ÷ 2 = 1025 KWH

1025 KWH x Dhs. 0.345 per KWH = Dhs. 353.00 per year saved.

Total Annual Savings:

Savings per year Water Dhs. 1257.00
 Savings per year Electricity Dhs. 353.00
 Dhs.1610.00 (total annual savings per hotel room or family home in the shower only).

Conclusion; Installing Maric Valves in the kitchen, bathroom basins, and toilet showers will demonstrate considerable savings in payment of utility bills and contribute to saving our environment.

www.maric.com

Telephone:

08 8431 2281

(+61 8 8431 2281)

Facsimile:

08 8431 2025

