

WATER AUTHORITIES

Flow rate limiters fitted to water meters can provide the following benefits ;

- a, Non-payment of water bills.** Two litre per minute tail inserts are not visible to the customer, and offer an alternative to the "lock Box". The tamper-resistant design ensures 2 litres per minute irrespective of supply pressure.
- b, Boosting mains pressure.** In areas where pressure suffers at peak periods, limiting flow to around 20 litres per minute can improve mains pressure along its full length. This may also prevent the costly exercise of increasing mains pipe size to cope with an increased population, and promotes water conservation.
- c, Extended water meter life** is obtained when maximum flow is kept within meters design parameters.
- d, Rural, semi-rural distribution.** Flow control valves at each boundary may facilitate the use of a small and inexpensive water main. Limiting flow rate to a fraction of a litre per minute to hundreds of properties, spread over hundreds of kilometers, may require a water main of as small and economical as 50mm. Consumers fill their own tanks for a practical supply.
- e, Flow control, Instead of water meters.** In Queensland, (in areas as described above), some authorities provide valves at a low flow rate as an alternative to water meters. This is a significant cost reduction to authorities, and consumers pay according to flow rate requested or offered. As above, consumers fill tanks for a practical supply.
- f, They may be able to offer an alternative to "water restrictions" in times of water shortage.**

Valves are available to suit meter sizes from 15mm up to 150mm. Valves are WaterMark certified (based on ISO9002) and approved for use in contact with drinking water.

MINING

Predominantly for gland water flow control to mechanical seals of slurry pumps.
Also for control of flow of liquids within the processing operations. In particular water treatment.

WATER TREATMENT / FILTRATION EQUIPMENT

There are many and various applications within this field, including;
Prevention of medium loss during backflushing.
Controlling flow through delicate filters etc.

IRRIGATION

Sprinkler control. Overspraying wastes water and underspraying wastes time. Maric Flow Valves fitted to sprinklers will give a constant volume coverage, saving water and time.
Also, with several sprinklers at varying elevations (uneven pressures), Maric Flow valves will ensure the same output from all sprinklers.

PUMP & BORE PROTECTION

Protection from the overloading of electric motors.
Protection from the over-pumping of and damage to bores.

The fitting of Maric flow valves to bore pumps can prevent damage to pumps, motors or bores in the event of over-pumping. Over-pumping of bores can occur on initial start-up due to either;

- No initial downstream resistance due to empty water lines, or
- A high initial static water table height, or both of the above.

This can lead to the electrical overloading of the motor and / or the mechanical overloading of the pump. It can also cause the water table to drop to the point where water level is low enough to provide insufficient motor cooling and overheating the motor, or the drawing in of air resulting in water hammer damage. Overpumping can also lead to the drawing in of sand.

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SHOWERS (from home to multistory motels)

For conserving water, SA Gas Co. recommends 7 lpm. Our Water authority recommends 9 lpm. Always use 'Kwyflo" type valves for domestic applications for quiet operation.

BATHROOM & HAND BASINS

We suggest 4.5 lpm is adequate for washing hands without wasting water.

DRINKING FOUNTAINS

Inserts at 2.3 lpm are widely used to control flow to a stream of consistent height ideal for public drinking.

WATER SOFTENERS

For preventing loss of crystals during backflushing.

ULTRAVIOLET WATER STERILIZATION

Too high a flow results in less than 100% bacterial kill. Too low a flow increases treatment costs.

VACUUM PUMPS

Control of water supply to liquid ring vacuum pumps.

DUST SUPPRESSION

Heavy truck traffic on dusty dirt roads. Sprinkler control on mobile water tankers / carriers. Also, dust & erosion control of tailings mounds (via sprinklers)

WATER HEATERS

Keeping flow below a pre set maximum ensures gas & electric instantaneous heaters can heat to a sufficiently hot & advertised temperature.

SAFETY WASHING EQUIPMENT, DELUGE SHOWERS, EYE WASH EQUIP.

Controlled flow ensures correct consistent and safe operation (critical for eye washing).

INDUSTRIAL LINEN WASHING MACHINES

Prevents too great a drop in mains pressure whilst filling. Can also be used in conjunction with a much smaller flow valve for metering correct ratio of detergent added.

DISHWASHERS, COMMERCIAL & INDUSTRIAL

As above.

HOTEL & BAR, GLASS WASHING & RINSING MACHINES

Controlled flow ensures efficient washing & rinsing without glass breakage.

FIRE FIGHTING

Pump protection. Controlled maximum flow ensures correct operation for type of nozzle used. Also for use in conjunction with smaller flow valve for correct dosing of foaming agent.

FERTILIZER / IRRIGATION / STOCK VITAMIN DOSING EQUIPMENT

Protects dosing equipment from too high a flow rate resulting in damaged equipment.

DISTILLERIES & COOLING EQUIPMENT

Provides correct flow of cooling water to condenser of stills.

EVAPORATIVE AIR CONDITIONERS

Ensures correct flow of recirculated water. Ensures correct flow of incoming fresh water.

CISTERNS & FLUSHING TANKS

Prevents the potential "continuous flush " operation if fill rate is too fast.

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