

A.R.I

Interesting innovations in air valves and backflow preventers for the landscape gardener

The manufacture and development of air valves and flow control accessories for agriculture have answered the industry call for "lower-flow" irrigation applications such as landscape gardening. The introduction of several new products designed specifically for this developing market, as well as the adaptation of some of their established products, has caused major interest in the industry.

Until recently the options available to the landscape gardening irrigator to control air intake along his main flow line were limited.

The increasing realization of the damage that could and were being caused, due to lack of awareness of this highly important aspect of the irrigation process, has led to a demand for a specific range of products geared towards this industry sector.

A classic example is the introduction of the "Mini-Barak" Combination Air Valve, "little brother of the industry-acclaimed Barak valve, which is only available in dimensions of 2" upwards.

The Mini- Barak comes with either $\frac{3}{4}$ or 1" thread, ideal for low flow irrigation applications, and possesses the dual air release facility of the highly-popular Barak.

The kinetic component of this highly robust air valve is capable of allowing air release under pressure differentials of more than 10 psi, and will invariably protect the main line from "imploding" in the case of a sudden pressure fall. Another major feature of the Mini Barak is its ability to control and release air bubbles on the main line preventing the build up of air pockets, causing major imbalances in water distribution within the system.

Providing a similar solution but on an even



Mini Barak



DT-040

smaller scale is the new and highly compact micro valve **DT-040** available with either $\frac{1}{2}$ or $\frac{3}{4}$ " threads. Made from corrosive resistant plastic materials, the air valve boasts an innovative built-in shut off valve, enabling the closure of the air valve orifices with no interference with water flow in the pipe.

Another adaption on a winning theme is the



Segev S-050-V



RP-500

"Segev S-050-V 1" automatic air release valve, one way out - this 1" valve releases air when the pipeline is under pressure but will prevent air from entering the pipeline.

This application is beneficial when the water source is located some distance from the pump and there is a need to release air from the line but not break the vacuum on shutdown, greatly improving efficiency of centrifugal pumps by releasing entrapped air while ensuring continuous pump prime by not allowing air intake.

An entirely new addition and highly innovative addition is the M-040 "Metair" combination air valve. The M-040 valve is designed to be placed in-line before the water meter, and will alleviate the flow of air through the water meter and allow for totally accurate readings.

This new product has proved to be of particular interest not only to landscape gardeners but to all parties involved in meter reading in the domestic sector.

Another highly important development is the **RP500** backflow prevention valve. Now available in non-corrosive plastic, the RP 500 is designed to provide totally reliable protection against back flow caused by



M-040

negative or opposite pressure. Back flow can be catastrophic to any irrigation system causing infiltration of chemicals, fertilizers and/or other pollutants into drinking water systems.

Approved by international standards, the RP-500 is reliable and easily maintained, requiring no special tools. It has two independent, easily replaceable, spring check valves in capsules.

A revolutionary internal Reduced Pressure Zone ensures protection and reliable performance.

These new innovations and adaptations are examples of the new designs which have been painstakingly developed by A.R.I. to provide answers for irrigators in the "low-flow" sector, by offering an entire range of control solutions for air intake and discharge problems on the system feed line, and for backflow prevention of hazardous pollutants into the drinking water system.



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FLOW CONTROL ACCESSORIES

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