INTERNATIONAL

VOLUME #8, 2005

Hunter® Headlines

Irrigation News & Insights

Projects in the Great Outdoors Require Tough Controllers

Irrigation systems in city parks, commercial sites, and municipal projects have to be tough enough to withstand a lot of beatings from foot traffic and machinery. If you're looking for some really tough controllers that can handle the extreme elements and tough situations, Hunter has a pair of solutions for you.

The SVC and WVC battery-operated controllers have earned international **IP68 certification**—the highest Ingress Protection level for contamination. But Hunter takes protection even further, with **product testing** that ensures these products are the most reliable battery-operated controllers on the market:

- **Water submersion** to a depth of 3 times the IP68 requirements
- **Dust and dirt intrusion** (Hunter's double o-ring design assures resistance to fine dust ingress)
- **Repetitive heating and freezing cycles** in Hunter's Environmental Test Chamber (controllers are tested at extremes ranging from freezing to 96° C)
- **Accelerated weathering** subjects plastic components to a UV light weatherometer to ensure long term integrity
- Plus **additional tests by Hunter product managers on site and with customers in real world installations**

Reliability and durability are some of the most valuable features for any product. If you're searching for battery-operated controllers with those features built-in, you'll find them with Hunter's SVC and WVC.

Left: Hunter product managers put the SVC controller through a range of challenging tests.

***Right:** Repetitive heating and freezing cycles in Hunter's Environmental Test Chamber (controllers are tested at extremes ranging from freezing to 96° C).*

Save Water (and Make Money) with Irrigation System Audits

Stretch the landscaping resources of your clients at the same time you add an extra professional service to your offerings. Become an auditor.

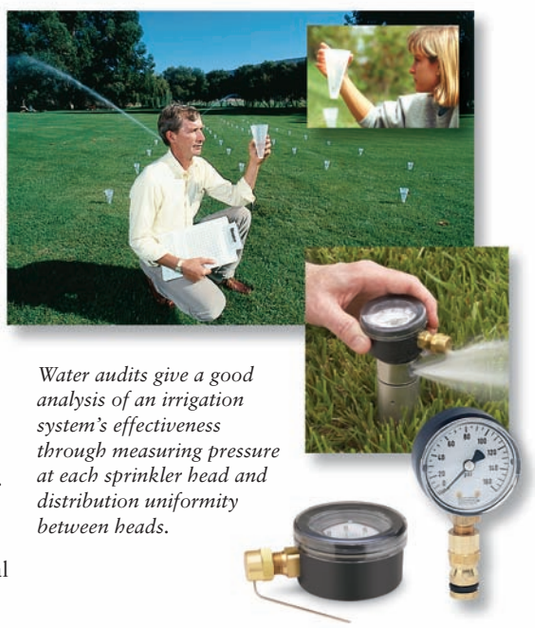
Auditing irrigation systems is growing in popularity with municipalities, city parks departments, and commercial projects. Audits can save water and energy, and reduce pump operation time and maintenance costs, while increasing the health and quality of turf and landscaping.

Audits are a process of evaluating the efficiency and effectiveness of the entire system operation. A short list of audit functions includes:

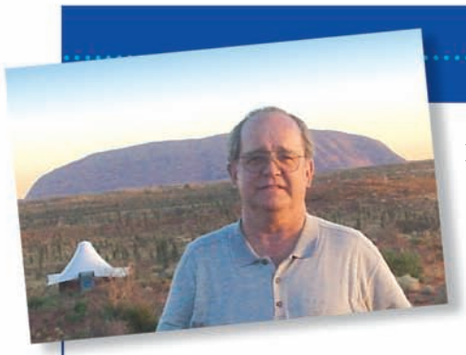
- Check of the system for leaks, broken components, low head drainage, correct sprinkler spacing and dry spots
- Measure pressure at individual sprinkler heads, using a pitot gauge or rotor pressure gauge
- Set up catch can tests to measure sprinkler system uniformity
- Calculate zone precipitation rates to estimate recommended zone run times
- Make a report to your client detailing recommendations and system improvements

Audits are also an additional offering that irrigation companies can add to their list of possible services to sell to existing or new clients.

Certified Landscape Irrigation Auditor classes are offered by the European, Australian and U.S. Irrigation Associations. More information is available on www.IA.org, and for classes in Italy or Spain visit eia.free.fr. Or contact your local Hunter representative for more detailed information.



Water audits give a good analysis of an irrigation system's effectiveness through measuring pressure at each sprinkler head and distribution uniformity between heads.



A Message From **Richard E. Hunter**

I treasure the opportunity to get out and meet with irrigation professionals, all over the world. Most recently, I had the pleasure of visiting Hunter customers in Australia and Chile.

One thing that is the same wherever I go is the fact that running a business not only has its rewards but also its challenges. That's why Hunter Industries has made it a point to provide our customers with more than just reliable products. We also provide you with a reliably strong sales and technical support team to help you grow your business. And we make available comprehensive information so you can get the best results from our products, through our sales team, our support literature, and our web sites. It's all part of our continuing effort to encourage professionalism in our industry.

You can do your part through participation in local associations, regular training, and all forms of communication. And speaking of communication…I want to hear your requests and concerns, so please feel free to let me know (at **information@hunterindustries.com,** attn: Richard Hunter) how Hunter can help your business.

Irrigation System Design Made Easier

The wide choice of nozzles available for the I-20 rotor makes irrigation design easy and efficient, thanks to four different combinations of I-20 nozzles which make up "matched precipitation sets." This means it is possible to combine quarter-, half-, and full-circle rotors on the same zone and be assured that the precipitation rate will be equal throughout.

The I-20 Short Radius nozzle rack provides easy matched precipitation for **5.5 m** and **7.6 m** spacings and the **standard I-20 nozzle rack** includes further matched precipitation nozzle combinations for **10 m** and **12 m** spacings.

10 Meter MPR Nozzle Set

Nozzle Number	Pressure kPa	Radius m	Flow L/m	Precip mm/hr
#1.0 Quarter	200	9.1	3.4	10
	275	9.4	3.8	10
	340	**9.4**	**4.5**	**12**
	410	9.8	4.9	12
#1.5 Third	200	9.8	4.5	10
	275	10.1	5.3	12
	340	**10.4**	**6.1**	**14**
	410	10.4	6.8	15
#2.5 LA Half	200	8.2	7.9	13
	275	9.1	9.5	15
	340	**10.1**	**10.6**	**17**
	410	10.7	11.4	18
#6.0 LA Full	200	9.4	15.9	25
	275	10.7	18.9	30
	340	**11.3**	22.	36
	410	11.9	23	37

12 Meter MPR Nozzle Set

Nozzle Number	Pressure kPa	Radius m	Flow L/m	Precip mm/hr
#2.0 Quarter	200	9.8	6.1	15
	275	10.4	6.8	15
	340	**11**	**7.6**	**15**
	410	11	8.3	
#3.0 Third	200	10.4		
	275	11		
	340	**11.6**	10.	15
	410	11.6	11	16
#4.0 LA Half	200	11.3	12.1	11
	275	11.9	14	12
	340	**12.5**	**15.9**	**12**
	410	12.8	17.4	13
#8.0 LA Full	200	11.3	25.4	12
	275	11.9	29.1	12
	340	**12.5**	**32.2**	**12**
	410	12.5	34.8	13

5.5 Meter Short Radi

Nozzle Number	Pressure kPa	Radius m	Flow L/m	Precip mm/hr
#.50 SR Quarter	200	5.2		
	275	5.2		
	340	**5.5**		
	410	5		
#1.0 SR Half	200	5.		
	275	5.2	3.4	15
	340	**5.5**	**3.8**	**15**
	410	5.8	4.	15
#2.0 SR Full	200	5.2	5.	14
	275	5.2	6.4	17
	340	**5.5**	**7.5**	**18**
	410	5.8	8.3	17

7.6 Meter Short Radius Nozzle Rack

Pa	Pressure kPa	Radius m	Flow L/m	Precip mm/hr	Precip mm/hr
#.75 SR Quarter	200	7.0	2.2	11	12
	275	7.3	2.6	11	13
	340	**7.6**	**2.8**	**12**	**13**
	410	7.9	3.1	12	14
#1.5 SR Half	200	7.0	4.2	10	12
	275	7.3	4.9	11	13
	340	**7.6**	**5.7**	**12**	**14**
	410	7.9	6.1	12	13
#3.0 SR Full	200	7.0	9.5	11	13
	275	7.3	10.2	11	
	340	**7.6**	**11.4**	**12**	
	410	7.9	11.7	11	

How to Meet the Pressure and Flow Demands of Agricultural Systems

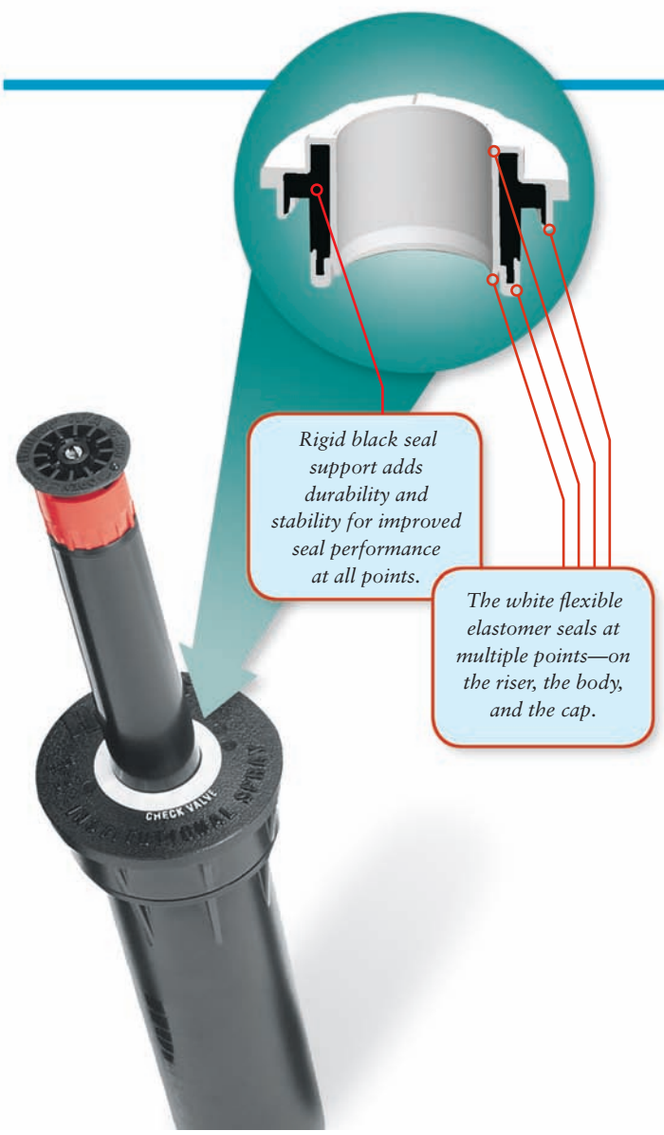
Agricultural projects, with their very demanding flow and pressure requirements, call for the use of a high capacity valve. The ICV, designed specifically for high-flow and low-flow situations, is ideal for controlling mains and submains on large irrigation installations. This makes the valve perfectly suited for agricultural uses including orchards, vineyards, greenhouses, and nurseries.

ICV's wide flow range (.06 to 68.10 m^3/hr) covers practically all agricultural design considerations and the product's pressure rating (15 bar/220 PSI) provides security against pump surge and large system water hammer dangers. Plus, ICV's ability to operate with latching DC power systems up to 15 bar is unique and perfect for large plantations remote from electrical power.

Two optional features enhance the valve's use in agriculture systems. The **Accu-Set™** pressure regulator adjusts pressure at each valve to provide more uniform systems, resolve large elevation change problems, and address the precision required in drip systems. **Filter Sentry™** provides assured operation when dealing with unreliable water quality associated with many agricultural projects.

ICV valves are available in a variety of sizes from 25 mm to 80 mm. Each model includes standard high-end features, such as flow control, manual internal bleed, and captive components, to deliver dependable performance for all installations.

Agricultural systems require precise pressure control, large flow variation, and efficient performance from a valve, which the ICV delivers with ease.



Improved Seal Design Enhances Pro-Spray®, Institutional Spray

Hunter's two popular spray heads have been improved with a new co-molded wiper seal to give you even better performance.

Co-molding results in reduced seal "flow-by" (excessive leakage of water past the seal during pop-up of the riser) at system startup, so less pressure and flow are required for operation. There is also less chance of riser "stick-ups" (even in difficult sandy soils), body and cap leaks are prevented, and maintenance costs are reduced due to **a longer seal life.**

Co-molding is a process where two parts are molded together in such a way that a bond is created between them. This bonding gives the softer part more structure as it is bonded into the stiffer part. In the case of the spray heads' wiper seal, the seal support and the seal are molded together to ensure a consistent size. The added stability and durability of co-molding insures optimal seal performance and improved wear over many more years of field use.

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We welcome your comments on this publication

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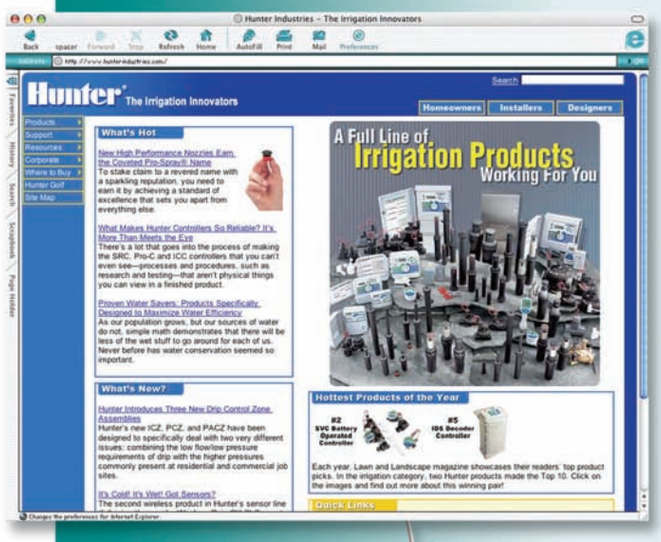

You've Got Questions? We've Got Answers!

One thing that irrigation professionals have is questions. But where can they go to get what they need? (Answers.) Look no further than Hunter.

And the easiest place to go is the Internet. Hunter has a website to meet your needs, providing the industry's most comprehensive source of information—not useless data to overwhelm you, but practical stuff you can actually use. Like an array of brochures, product guides, and other technical support literature that you can download and print from your own computer! The Hunter site has special sections specifically for professional irrigation "installers" and "designers."

If you can't find the answers you're looking for, don't worry. That's what our site's "Ask the Expert" is all about. Simply click on the link and you'll have the opportunity to submit your question in writing…then receive a detailed response from the appropriate person at Hunter with the expertise on that issue.

Visit our English language site at **www.HunterIndustries.com** for a broad range of content that is growing all the time.

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