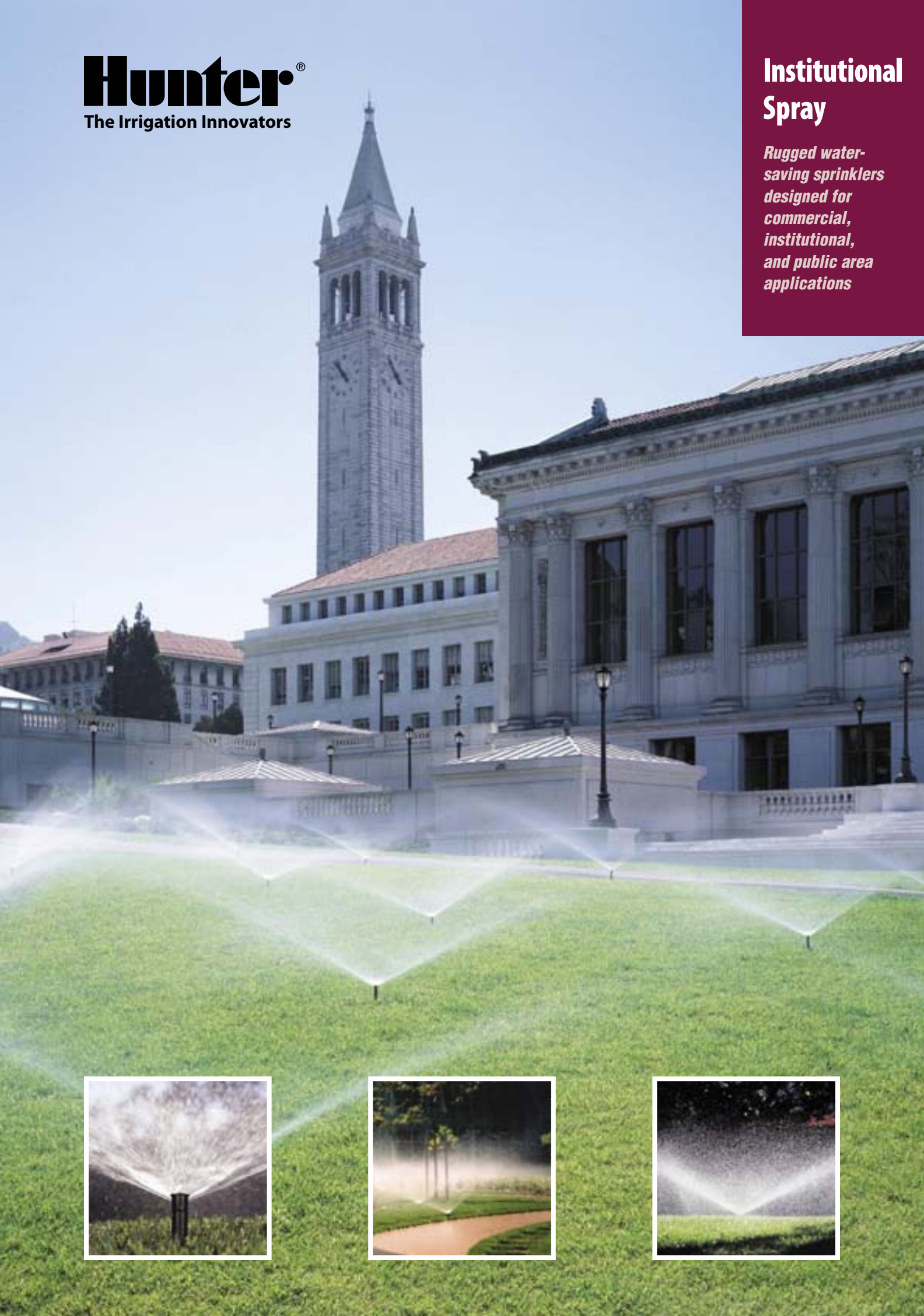


**Hunter**<sup>®</sup>  
The Irrigation Innovators

## Institutional Spray

*Rugged water-saving sprinklers designed for commercial, institutional, and public area applications*



**E**xceptional strength, innovative features...just the need for high traffic areas. Features like a positive-seal flush cap with an innovative pull-up design that keeps debris out. A high quality, multi-functional, pressure-activated wiper seal. True pressure regulation under a wide range of environmental and pressure conditions to reduce water waste. An in-stem regulator that acts as a flow control device if the nozzle is removed. A super heavy-duty check valve assembly that eliminates the potential liability issues of low head drainage. The most powerful retraction spring in its class. Sounds like a lot in a spray sprinkler? How about one more great feature—just like all other Hunter Institutional Series™ irrigation products, it carries a 5-year warranty.



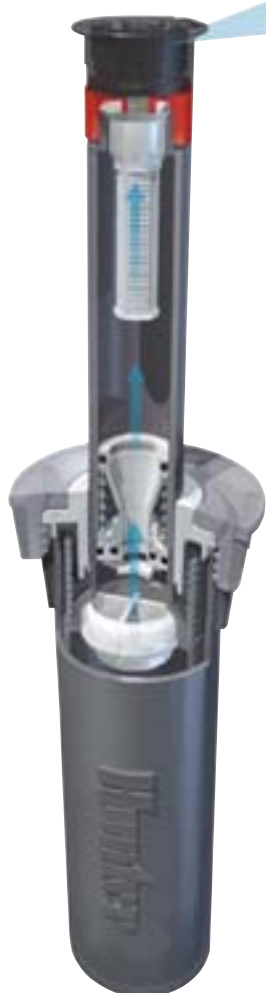
Shrub

10 cm

15 cm

30 cm

## Features & Benefits



### In-stem pressure regulation built-in

Maximum nozzle efficiency regardless of inlet pressure

### Heavy-duty body and cap construction

Multi-thread buttress design withstands the harshest environments

### Pressure activated, multi-function, no flow-by wiper seal

Easy to remove and clean; treated with UV inhibitors to ensure long life

### Compatible with all female threaded nozzles

Accepts adjustable, fixed, and specialty nozzles from Hunter and all major brands

### Optional factory-installed drain check valve for up to 3 meters elevation change

Eliminates landscape damage from flooding and erosion

### Ratcheting riser for quick arc alignment

Make adjustments while sprinkler is operating

### Heavy-duty spring

For positive retraction under any conditions

### Innovative “pull-ring” flush plug design

Allows limited flow permitting controlled directional flushing

## Models

INST-00 – Shrub

INST-04 – 10 cm Pop-up

INST-06 – 15 cm Pop-up

INST-12 – 30 cm Pop-up

## Dimensions

- Overall height:  
INST-04 – 15.5 cm  
INST-06 – 22.5 cm  
INST-12 – 41 cm
- ½" female inlet NPT
- Exposed diameter: 5.7 cm

## Operating Specifications

- Recommended pressure range: 1.0 to 6.9 bars; 103 to 689 kPa
- Flow-by: 0.7 bars; 68 kPa or greater; 0.02 m<sup>3</sup>/hr; 0.4 l/min otherwise
- Precipitation rates: approximately 38 mm per hour

## Options Available

- Factory-installed drain check valve for up to 4.3 m elevation change; “Check Valve” stamped on cap for easy identification
- Field-installed black rubber cover (part # 469805)
- Field-installed reclaimed water identification snap-on cover (part # 469800)
- Field-installed reclaimed water identification body cap (part # 458530), with “Check Valve” stamped on top for easy ID (part # 458535)
- Field-installed vandal-proof cap (part # INST-VPC)
- Field-installed check valve (part # 437400)

## Pressure Regulation That's Built in (So it's Always There)



Without a regulator mist gets carried away.



With a regulator large water droplets equals no wasted water.

For long pipe runs with wide variations in available pressure, large elevation changes that make design difficult, or high and variable pressure situations that create nozzle performance problems, the Institutional Spray provides a comprehensive solution. Built-in pressure regulation to a true 2.1 bars (206 kPa). You'll get controlled, reliable pressure to Hunter's wide array of available nozzles, as well as the elimination of misting, fogging or unwanted variation. The pressure regulator is also dirt tolerant, handles extreme operating pressures up to 7 bars (689 kPa), and will control flow rates by 70% if the nozzle is damaged or removed. Best of all, unlike pressure compensating screens, this regulator

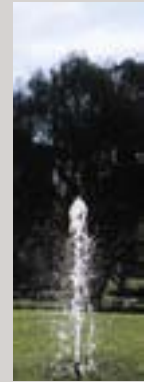


is built into the sprinkler, so it's ready from the get-go to handle the extremes your site dishes out.

## Regulator Also Acts as Anti-Geyser Device if Nozzle is Removed

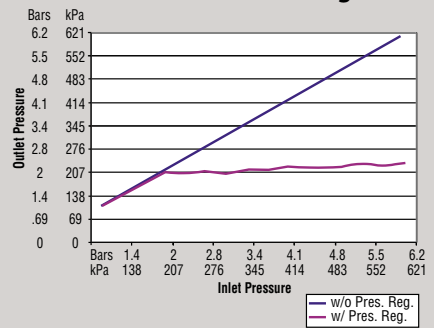


Without Regulator



With Regulator

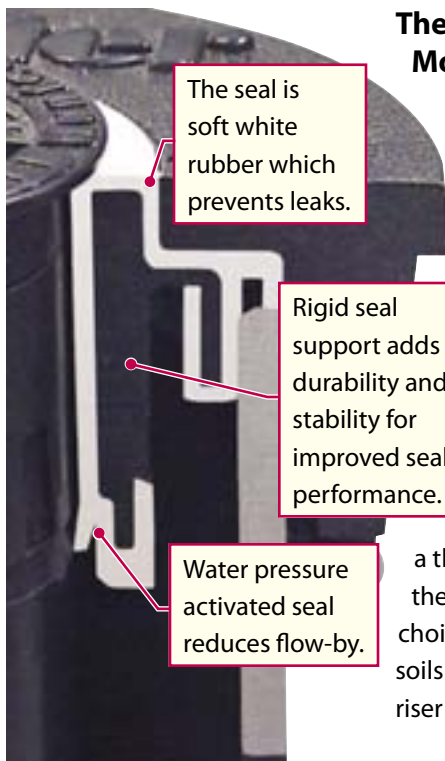
## The Effects of a Pressure Regulator



## The Wiper Seal That Allows More Heads Per Valve

With its pressure activated, multi-function wiper seal, the Institutional Spray has been designed to reduce "flow-by." A zero flush seal ensures dependable operation at low pressures and permits more sprinkler heads to be installed on the same zone. The wiper seal's unique design keeps debris from entering the seal when retracted. Body cap leaks will be

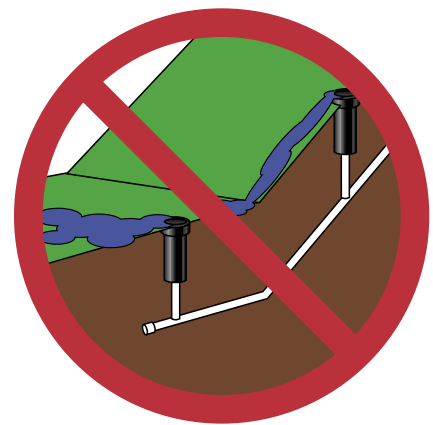
a thing of the past, as well. You'll find the Institutional Spray to be the ideal choice for handling the debris of gritty soils while eliminating the worry of riser stick-ups.



The seal is soft white rubber which prevents leaks.

Rigid seal support adds durability and stability for improved seal performance.

Water pressure activated seal reduces flow-by.



## Check Valves: No Leaks, No Puddles, No Waste

The Institutional Spray check valve eliminates leaks and puddles at the lower heads, protecting landscapes from damage and erosion while reducing water waste, for up to 3 meters of elevation change. Choose from the convenience of factory-installed check valves or the flexibility of field installation.

## Improved Co-molded Seal Makes a Great Seal Even Better

Co-molding is a process where two parts are molded together to create a bond between them. The soft white rubber seal is bonded to a rigid black inner support which adds stability and durability. This insures optimal seal performance and improved wear over many years of use.

