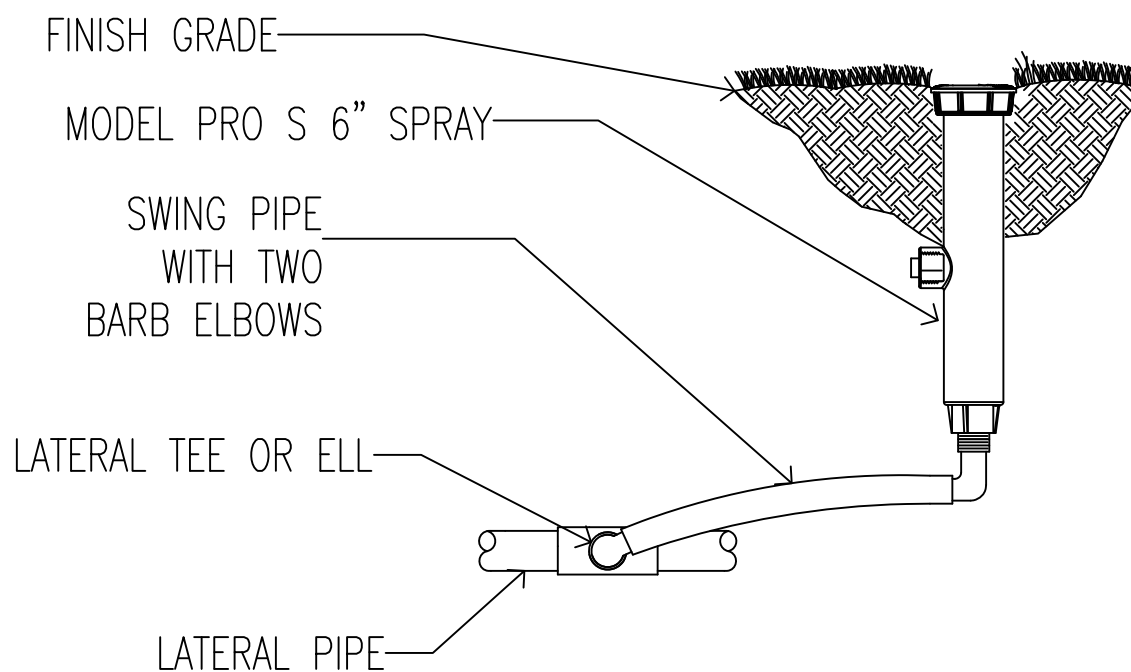


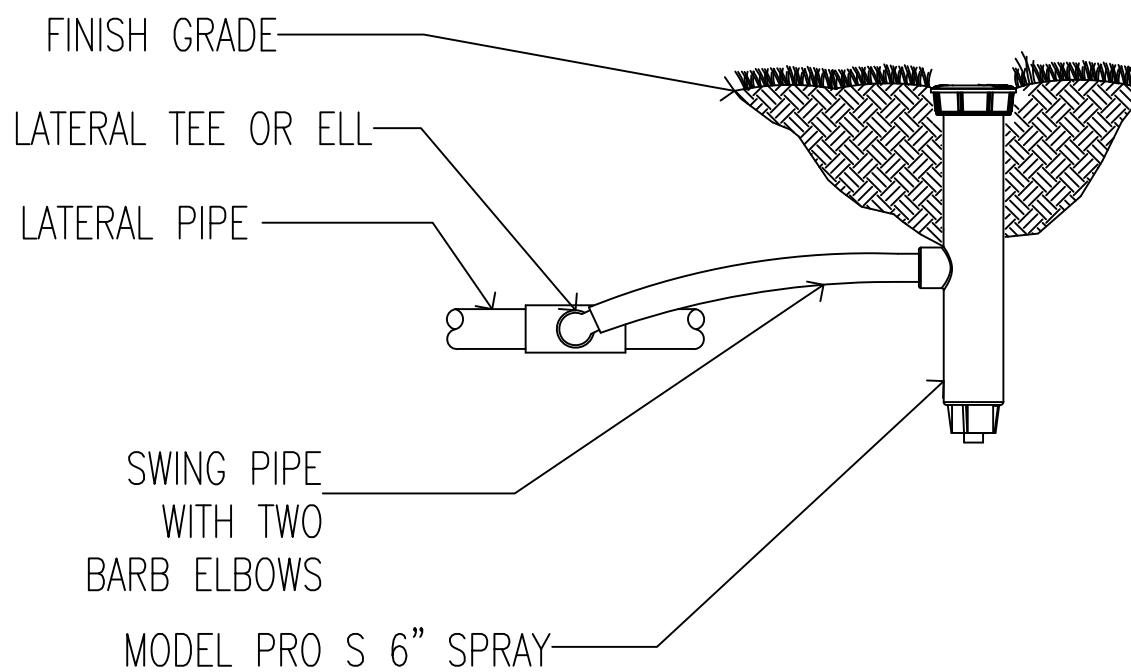
PRO S SPRAY: 2", 3" AND 4"

IRRIGATION INSTALLATION DETAIL



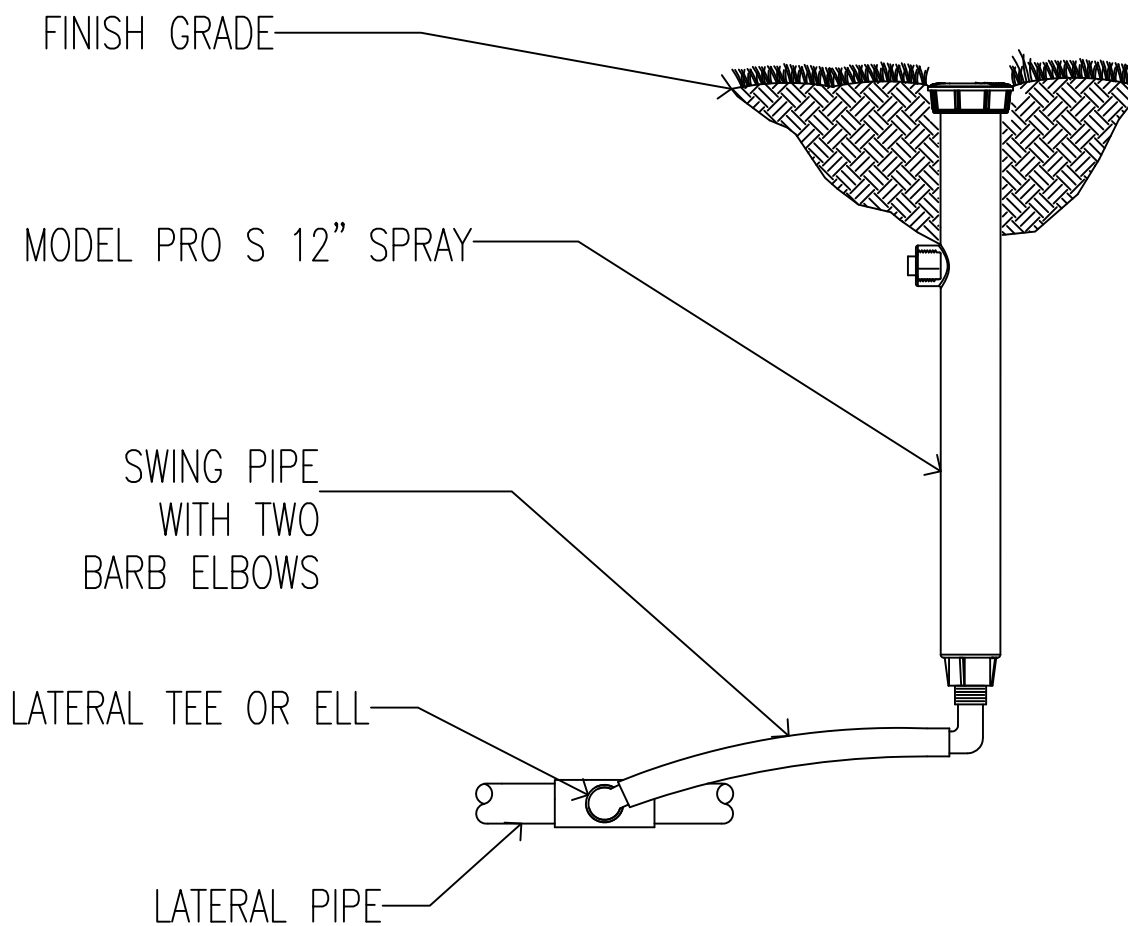
PRO S SPRAY: 6" BOTTOM INSTALLATION

IRRIGATION INSTALLATION DETAIL



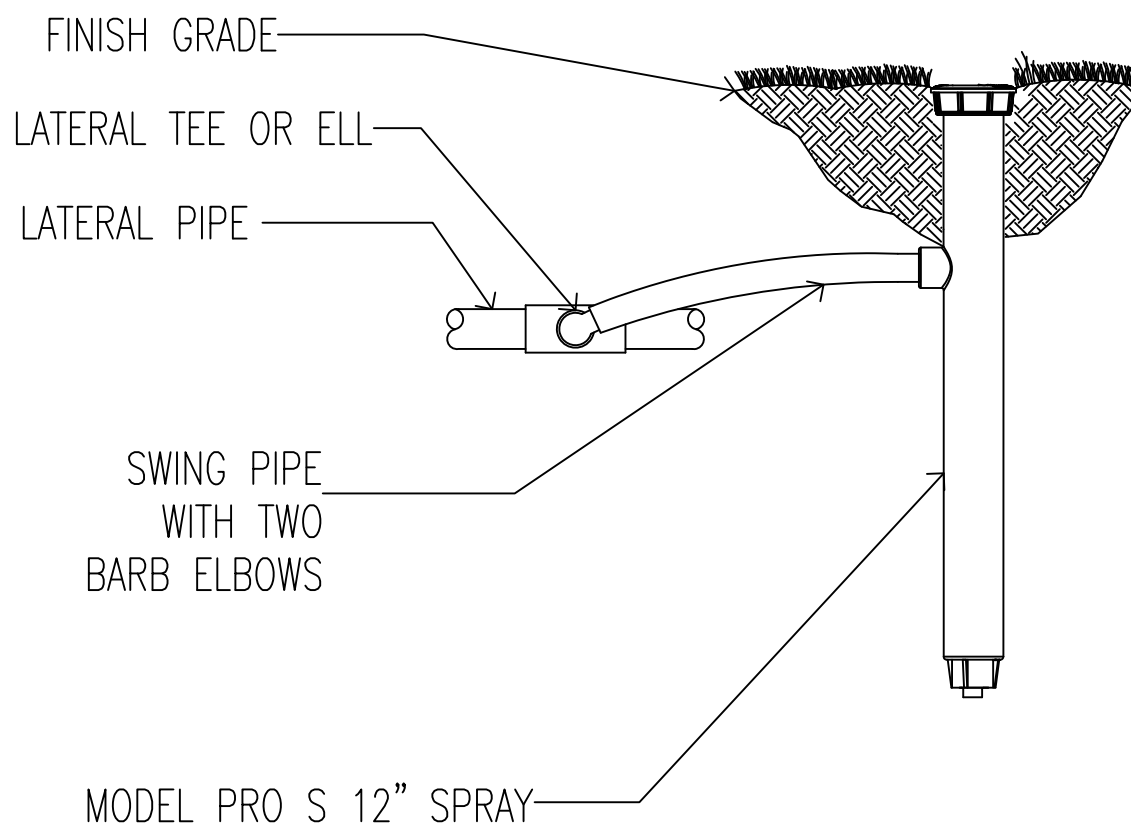
PRO S SPRAY: 6" SIDE INSTALLATION

IRRIGATION INSTALLATION DETAIL



PRO S SPRAY: 12" BOTTOM INSTALLATION

IRRIGATION INSTALLATION DETAIL



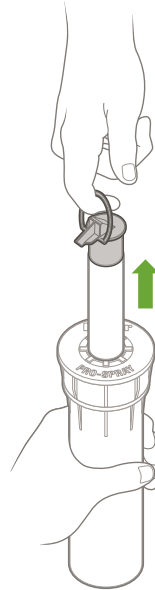
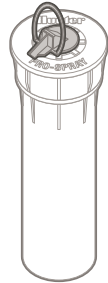
PRO S SPRAY: 12" SIDE INSTALLATION

IRRIGATION INSTALLATION DETAIL

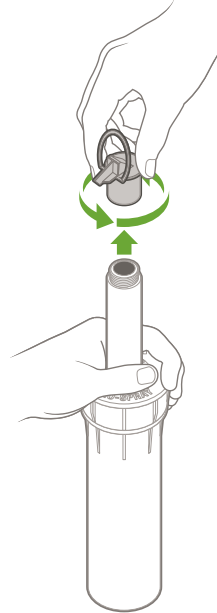
PS ULTRA / PRO-SPRAY[®]



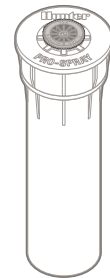
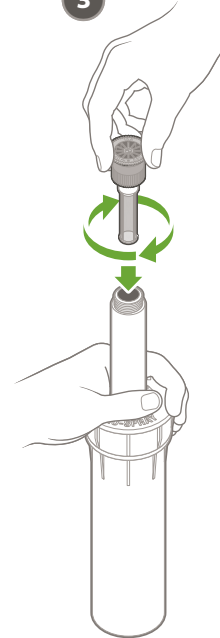
1

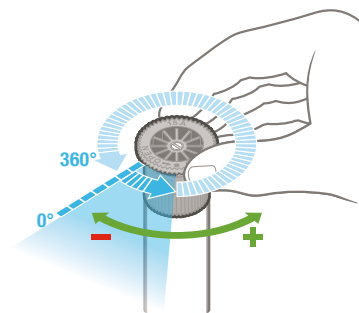
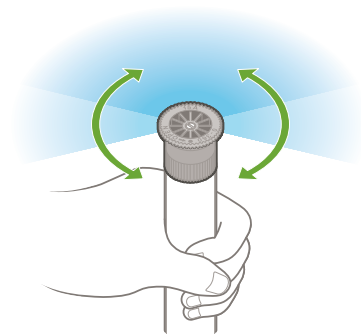
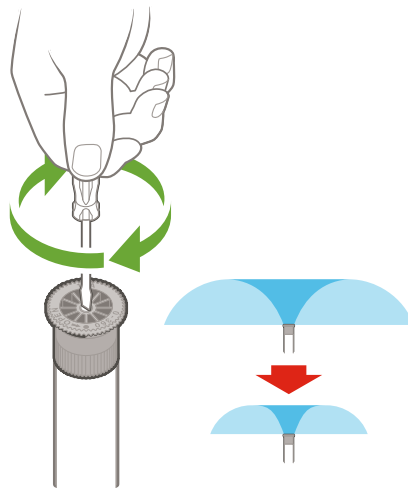
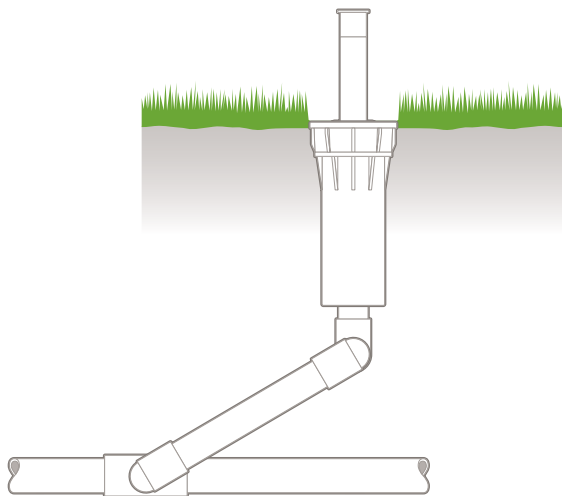


2



3







10A



1.0–3.0 Bar
100–300 kPa
20–40 PSI



0.7–9.5 l/m
0.2–2.3 GPM



2.6–3.5 m
(9'–11')



12A



1.0–3.0 Bar
100–300 kPa
20–40 PSI



0.7–13.4 l/m
0.3–3.4 GPM



3.2 m–4.1 m
(11'–13')



15A



1.0–3.0 Bar
100–300 kPa
20–40 PSI



1.3–18.0 l/m
0.4–4.5 GPM



4.0 m–5.2 m
(14'–17')



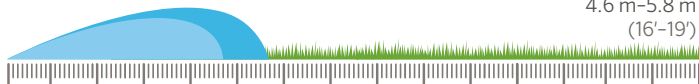
17A



1.0–3.0 Bar
100–300 kPa
20–40 PSI



1.7–21.7 l/m
0.5–5.5 GPM



4.6 m–5.8 m
(16'–19')

PRO-S™ SPRAYS



The Pro-S™ Spray is designed to provide long life and outstanding performance

- **Co-Molded Wiper Seal** – Ensures a leak free, full pop-up operation even under low-pressure situations. Cartridge design allows for easy removal and cleaning. Treated with UV inhibitors for long life. Seal material was carefully selected to reduce degradation and stick-ups.
- **Accepts Female Threaded Nozzles**
- **Ratcheting Riser** – Permits quick, easy alignment of spray pattern.
- **Heavy-Duty Retraction Spring** – Strongest spring in the industry for positive retraction in all soil conditions.
- **Side Inlet** – Standard on 12" model, 6" model available with or without side inlet.
- **Wide Selection of Sizes** – Available in 2", 3", 4", 6" and 12" models.
- **Pre-Installed Flush Cap**
- **Optional In-stem Pressure Regulator** – available for 4", 6" and 12" models, factory preset at 30 or 40 psi.
- **Optional In-stem StopFlow™** – Available in 4" model only.
- **Optional In-stem Check Valve** – Installs in the field, holds up to 10' of head pressure.
- **Optional Pre-installed Nozzle Guard**
- **All pressure regulated Pro-S™ Sprays**
Sprays are EPA WaterSense certified.
For a full list, visit our website at:
www.krain.com/watersense-certified



K-Rain Manufacturing Corp.
1640 Australian Avenue
Riviera Beach, FL 33404 USA
561.844.1002
FAX: 561.842.9493
1.800.735.7246 | www.krain.com

PRO-S™ SPRAYS

The result of precision engineering and extensive field testing by contractors around the world, the **PRO-S™** is designed to provide long life and outstanding performance. **PRO-S™** sprays are distinguished by robust construction, rugged body and cap, co-molded seal and heavy-duty retraction spring. Available in 2", 3", 4", 6" and 12" pop-up heights, PRO-S sprays are compatible with all standard female-threaded nozzles.

PRO-S™ pop-up sprays are built with the contractor in mind. The co-molded wiper seal ensures proper operation time after time with minimal flow by.



Pad printed CV-PR (optional, shown above) is easily identified in the field after installation.



Optional in-stem pressure regulation:

Saves water by properly regulating nozzle operating pressure. Aids in eliminating misting, fogging and overspray due to wind drift. Regulates pressure to 30 PSI (2,1 bar) or 40 PSI (2,8 bar).



Optional Nozzle Guard provides extra protection to Rotary or standard nozzles.

StopFlow™

Automatically stops water flow if a spray head is damaged by a lawnmower or vandalized.



Co-Molded Wiper Seal

Ensures a leak free, full pop-up operation even under low-pressure situations. The unique cartridge design features a carefully selected material to prevent degradation and stick-ups.



Specifications

- Pressure Rating: 20 - 70 PSI (1,4 - 4,8 bar)
- Flow-by: 0 to 8 PSI (0.6 bar) 0.20 GPM (0,76 LPM)
- Inlet: 1/2" NPT Female Thread
- Retracted Body Height:
 - 78002 - 4 3/8" (11,1 cm)
 - 78003 - 5" (12,7 cm)
 - 78004 - 6" (15,2 cm)
 - 78006 - 9 3/8" (23,8 cm)
 - 78012 - 16" (40,6 cm)

Models

78002	PRO-S™ 2" Pop-up
78003	PRO-S™ 3" Pop-up
78004	PRO-S™ 4" Pop-up
78006	PRO-S™ 6" Pop-up with side inlet
78012	PRO-S™ 12" Pop-up

How to Specify with Options

MODEL	OPTION	
78002	- CV	Check valve
78003	- GUARD	Nozzle guard
78004	- NSI	No side inlet (6" only)
78006	- PR30	Pressure regulator 30 PSI
78012	- PR40	Pressure regulator 40 PSI
	- RCW	Reclaimed water use
	- SF	Stop Flow™

Examples: 78004-CV, 78006-NSI-RCW, 78012-CV-PR30



Pro-S™ Sprays

Proven long life and outstanding performance

► **Pressure Rating**

20 – 110 PSI (1,4 – 7,6 bar)
Durable in surge and high pressure conditions

► **Heavy-Duty Retraction Spring**

Strongest retraction spring in the industry

► **Co-Molded Wiper Seal**

Ensures consistent leak-free full pop-up

► **Ratcheting Riser**

Quick, easy alignment of spray pattern

► **Side Inlet**

Standard on 12" model, 6" model available with or without side inlet

► **Wide Selection of Sizes**

Available in 2", 3", 4", 6" and 12"

► **Pre-Installed Flush Cap**

► **EPA WaterSense certified**

All pressure regulated models are EPA WaterSense certified



OPTIONS

Pressure Regulation



Factory preset at 30 or 40 PSI. Available in 4", 6" and 12".



Stop Flow



Automatically stops water flow should the nozzle become damaged or removed.

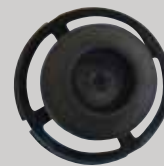
Nozzle Guard

Protects the nozzle from foot traffic, mowers, edgers and arc changes.



Check Valve

Pre-installed or installs in the field. Holds up to 10' of head pressure.



Pro-S™ pop-up sprays are built with the contractor in mind. The co-molded wiper seal ensures proper operation time after time with minimal flow by. Designed to provide long life and outstanding performance, the Pro-S™ sprays are known for their robust construction, rugged body and cap, co-molded wiper seal and heavy-duty retraction spring.

- Available in 2", 3", 4", 6" and 12" pop-up heights
- Pre-installed flush cap
- Assembly fits in an 1800 body



	2"	3"	4"	6"	12"
Specifications					
Riser Height	1 1/2"	2 1/2"	3 1/2"	5 1/2"	11 1/2"
Retracted Height	4 3/8"	5"	6"	9 3/8"	16"
Pressure Rating	20-110 PSI (1,4-7,6 bar)				
Flow-by	0 – 8 PSI (0,6 bar) 0.20 GPM (0,76 LPM)				
Inlet	1/2" Female Thread				
Nozzle	Female Threaded				
Features					
Co-molded Wiper Seal	●	●	●	●	●
Ratcheting Riser	●	●	●	●	●
Heavy Duty Retraction Spring	●	●	●	●	●
Side inlet				*	●
Warranty	7 years	7 years	7 years	7 years	7 years
Options					
Check valve	●	●	●	●	●
Nozzle guard	●	●	●	●	●
Pressure regulation (30 PSI)			●	●	●
Pressure regulation(40 PSI)			●	●	●
Reclaimed water use	●	●	●	●	●
Stop Flow™			●	●	●

* Available option: No Side Inlet

Models

PART #	DESCRIPTION
78002	Pro-S™ 2" Pop-up
78003	Pro-S™ 3" Pop-up
78004	Pro-S™ 4" Pop-up
78006	Pro-S™ 6" Pop-up with side inlet
78012	Pro-S™ 12" Pop-up

How to Specify

MODELS	OPTIONS
78002	-CV ▶ Check Valve
78003	-GUARD ▶ Nozzle Guard
78004	-NSI ▶ No side inlet (6" only)
78006	-PR30 ▶ Pressure regulation 30 PSI
78012	-PR40 ▶ Pressure regulation 40 PSI
	-RCW ▶ Reclaimed Water use
	-SF ▶ Stop Flow™

Examples: 78004-CV, 78006-NSI-RCW, 78012-CV-PR30

Co-Molded Wiper Seal

Ensures a leak free, full pop-up operation even under low-pressure situations. Ensures proper operation time after time with minimal flow by. The unique cartridge design features a carefully selected material to prevent degradation and stick-ups.



All pressure regulated Pro-S™ Sprays are EPA WaterSense certified.

For a full list, visit our website at:
www.krain.com/watersense-certified