FAMCO
هایپرصنعت

MINI*PRO*®

Perfect for small lawns and landscapes.

- **Revolutionary Patented Easy Arc Set –** Simplified arc set allows for wet or dry adjustment in seconds.
- **1/2" Inlet –** Replaces all standard mini rotors and pop-up sprays.
- **Adjustable to 360° –** Provides a full range of adjustment from 40° to 360°.
- **Patented Arc Set Degree Markings –** Clearly indicates the current watering pattern and simplifies arc set adjustment.
- **Time Proven Patented Reversing Mechanism –** Assures continuous reverse and return.
- **Rubber Cover –** Seals out dirt and increases product durability.
- **Wide Selection of Nozzles –** Provides flexibility in system design.
- **Optional Check Valve –** Prevents low head drainage.
- **Five Year Limited Warranty.**

K RAIN®

K-Rain Manufacturing Corp.
1640 Australian Avenue
Riviera Beach, FL 33404 USA
561.844.1002
FAX: 561.842.9493

MINI*PRO*™

When considering the industry leading MiniPro® gear driven rotor, think water efficiency. Available in three popular heights and compatible with a wide selection of nozzles, the MiniPro® brings flexibility to system design.

The MiniPro® is a gear-driven, rotary type sprinkler, capable of covering an area of 18'–33' radius at nozzle pressure of 20–70 PSI with a discharge rate of .8–3.8 GPM. The MiniPro® is supplied with five (5) numerically coded interchangeable nozzles. Sprinkler nozzle trajectory is 25°. The sprinkler has a stainless steel radius adjustment screw.

The MiniPro® provides arc adjustment from 40° to 360°. Sprinkler arc setting adjustment is carried out by rotation of a flat blade screwdriver within top cover adjustment slot. Sprinkler coverage pattern is indicated by degree graduations and an arrow located on top of the sprinkler. The MiniPro® is adjustable in all phases of installation (i.e., before installation, after installation while static, and after installation while in operation).

Easy Arc Setting

Arc Selection 40° to 360°
Adjust From Left Start

Specifications

- Inlet: 1/2" (1,3 cm) Threaded NPT
- Arc Adjustment Range: 40° – 360°
- Flow Range: 0.8 – 3.8 GPM (3 - 14,4 LPM)
- Pressure Rating: 20 – 70 PSI (1,4 - 4,8 bar)
- Precipitation Rate: .26 –.60 in/hr (6,6 - 15,24 mm/hr) (Depending on spacing and nozzle used)
- Height:

4"	Retracted height:	6" (15,2 cm)
	Riser height:	4" (10,2 cm)
6"	Retracted height:	8 3/8" (21,3 cm)
	Riser height:	6" (15,2 cm)
12"	Retracted height:	15 1/4" (38,7 cm)
	Riser height:	12" (30,5 cm)

- Recommended Spacing: 17' – 34' (5,2 – 10,4 m)
- Radius: 18' – 33' (5,5 – 10,1 m)
- Nozzle Trajectory: 25°

Models

13003	Mini*Pro*® – 4" (10,2 cm)
13006	Mini*Pro*® – 6" (15,2 cm)
13012	Mini*Pro*® – 12" (30,5 cm)

How to Specify with Options

MODEL	OPTION	
13003	**-CV**	Check valve
13006	**-NN**	No nozzle
13012	**-RCW**	Reclaimed water use

Examples: 13003-NN, 13006-RCW-CV

Performance Data

NOZZLE	PRESSURE PSI	kPa	Bars	RADIUS Ft.	M.	FLOW RATE GPM	L/M	M³/H	PRECIP in/hr ■	⬩	PRECIP mm/hr ■	⬩
#0.75	30	207	2,07	18'	5,5	0.8	2,8	0,17	.45	.51	11	13
	40	276	2,76	19'	5,8	0.8	3,0	0,18	.43	.49	11	12
	50	345	3,45	20'	6,1	0.9	3,4	0,20	.43	.50	11	13
#1.0	30	207	2,07	26'	7,9	0.9	3,4	0,20	.26	.30	7	8
	40	276	2,76	27'	8,2	1.2	4,5	0,27	.32	.37	8	9
	50	345	3,45	27'	8,2	1.3	4,9	0,30	.34	.40	9	10
#1.5 Pre-installed	30	207	2,07	27'	8,2	1.5	5,7	0,35	.34	.40	9	10
	40	276	2,76	27'	8,2	1.8	6,8	0,41	.32	.37	8	9
	50	345	3,45	28'	8,5	2.0	7,6	0,46	.34	.39	9	10
#2.0	30	207	2,07	29'	8,8	2.0	7,6	0,46	.39	.44	10	11
	40	276	2,76	30'	9,1	2.3	8,7	0,53	.42	.49	11	12
	50	345	3,45	31'	9,4	2.7	10,2	0,62	.42	.49	10	12
#3.0	30	207	2,07	32'	9,8	3.0	11,4	0,69	.48	.55	12	14
	40	276	2,76	33'	10,1	3.4	12,9	0,78	.45	.51	11	13
	50	345	3,45	33'	10,1	3.8	14,4	0,87	.52	.60	13	15

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

MINI*PRO*™

When considering the industry leading MiniPro® gear driven rotor, think water efficiency. Available in three popular heights and compatible with a wide selection of nozzles, the MiniPro® brings flexibility to system design.

The MiniPro® is a gear-driven, rotary type sprinkler, capable of covering an area of 18'–33' radius at nozzle pressure of 20–70 PSI with a discharge rate of .8–3.8 GPM. The MiniPro® is supplied with five (5) numerically coded interchangeable nozzles. Sprinkler nozzle trajectory is 25°. The sprinkler has a stainless steel radius adjustment screw.

The MiniPro® provides arc adjustment from 40° to 360°. Sprinkler arc setting adjustment is carried out by rotation of a flat blade screwdriver within top cover adjustment slot. Sprinkler coverage pattern is indicated by degree graduations and an arrow located on top of the sprinkler. The MiniPro® is adjustable in all phases of installation (i.e., before installation, after installation while static, and after installation while in operation).

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Arc Selection 40° to 360°
Adjust From Left Start

Specifications

- Inlet: 1/2" (1,3 cm) Threaded NPT
- Arc Adjustment Range: 40° – 360°
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- Pressure Rating: 20 – 70 PSI (1,4 - 4,8 bar)
- Precipitation Rate: .26 –.60 in/hr (6,6 - 15,24 mm/hr) (Depending on spacing and nozzle used)
- Retracted Height:
  - 4 in: 6" (15,2cm: 38,7cm)
  - 6 in: 8 3/8" (38,7cm: 21,3cm)
  - 12 in: 15 1/4" (
- Riser Height: 4 in: 4", 6 in: 6",12 in: 12"
- Recommended Spacing: 17' – 34'
- Radius: 18' – 33'
- Nozzle Trajectory: 25°

Models

13003	Mini*Pro*® – 4" (10,2 cm)
13006	Mini*Pro*® – 6" (15,2 cm)
13012	Mini*Pro*® – 12" (30,5 cm)

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MODEL	OPTION	
13003	**-CV**	Check valve
13006	**-NN**	No nozzle
13012	**-RCW**	Reclaimed water use

Examples: 13003-NN, 13006-RCW-CV

Performance Data

NOZZLE	PRESSURE PSI	kPa	Bars	RADIUS Ft.	M.	FLOW RATE GPM	L/M	M³/H	PRECIP in/hr ■	♦	PRECIP mm/hr ■	♦
#0.75	30	207	2,07	18'	5,5	0.8	2,8	0,17	.45	.51	11	13
	40	276	2,76	19'	5,8	0.8	3,0	0,18	.43	.49	11	12
	50	345	3,45	20'	6,1	0.9	3,4	0,20	.43	.50	11	13
#1.0	30	207	2,07	26'	7,9	0.9	3,4	0,20	.26	.30	7	8
	40	276	2,76	27'	8,2	1.2	4,5	0,27	.32	.37	8	9
	50	345	3,45	27'	8,2	1.3	4,9	0,30	.34	.40	9	10
#1.5 Pre-installed	30	207	2,07	27'	8,2	1.5	5,7	0,35	.34	.40	9	10
	40	276	2,76	27'	8,2	1.8	6,8	0,41	.32	.37	8	9
	50	345	3,45	28'	8,5	2.0	7,6	0,46	.34	.39	9	10
#2.0	30	207	2,07	29'	8,8	2.0	7,6	0,46	.39	.44	10	11
	40	276	2,76	30'	9,1	2.3	8,7	0,53	.42	.49	11	12
	50	345	3,45	31'	9,4	2.7	10,2	0,62	.42	.49	10	12
#3.0	30	207	2,07	32'	9,8	3.0	11,4	0,69	.48	.55	12	14
	40	276	2,76	33'	10,1	3.4	12,9	0,78	.45	.51	11	13
	50	345	3,45	33'	10,1	3.8	14,4	0,87	.52	.60	13	15

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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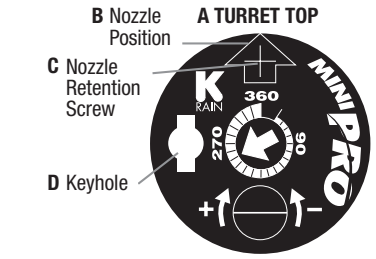
روبروی پالایشگاه نفت پارس، پلاک ۱۲

MINI*PRO*™ GEAR DRIVEN SPRINKLER SETTING INSTRUCTIONS

NOTE: The **Mini*Pro*** is factory preset with a 40° arc setting, and includes a pre-installed #1.5 nozzle.



CHANGING A NOZZLE

1. REMOVING THE NOZZLE RETENTION SCREW

Use your K-Key **(K)** or a small flat blade screwdriver to remove the nozzle retention screw **(C)** by turning counter-clockwise to remove and clockwise to re-install.

2. PULL UP THE RISER

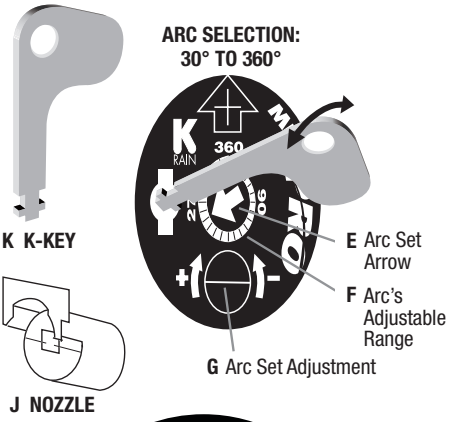
Insert the K-Key **(K)** in the keyhole **(D)** on the top of the nozzle turret **(M)** and turn the key ¼ turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket **(N)**. Hold the riser assembly with one hand.

3. REMOVING THE NOZZLE

Insert the end of the K-Key **(K)**, hook side up, into the tall slot along the right side of the nozzle **(J)** and pull up to pop out the nozzle. **NOTE:** Do not put the K-Key or any instrument into the nozzle opening.

4. INSTALLING A NOZZLE

Press the desired nozzle into the nozzle socket **(N)**. Make sure the nozzle number is visible and the nozzle "wing" is up. Then, re-install the nozzle retention screw **(C)**.
NOTE: The nozzle retention screw is also a break-up screw and used to adjust the distance of the spray.



SETTING THE ARC ADJUSTMENT

1. FINDING THE LEFT START POSITION

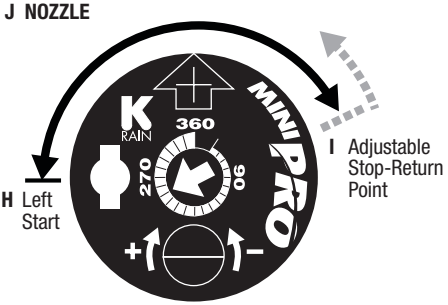
Place your finger on the top center of the nozzle turret **(M)**. Rotate the turret to the right until it stops and then back to the left until it stops. Notice the position of the nozzle arrow. This is the "Left Start" **(L)** position. The sprinkler will begin spraying from this position and rotate clockwise until it reaches the right "Arc Stop" **(F)**.

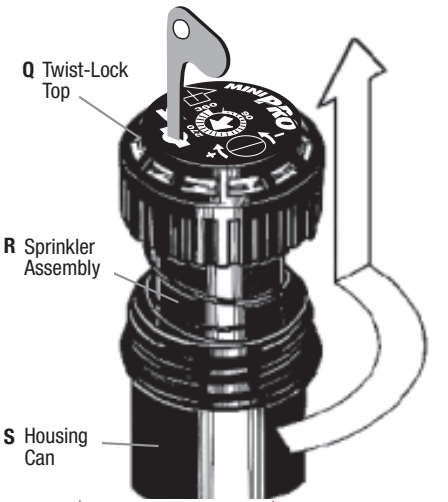
2. ORIENTING THE LEFT START POSITION

Insert the K-Key **(K)** in the keyhole **(D)** on the top of the nozzle turret **(M)** and turn the key ¼ turn to insure that the key does not slip out of the keyhole when you pull it up. Being careful not to allow the nozzle turret to turn, firmly pull up the entire spring-loaded riser. Hold the lower riser assembly up with one hand. Now turn only the lower riser **(O)** clockwise or counter-clockwise until the nozzle arrow is pointing where you want the sprinkler to begin spraying.

3. CHANGING THE ARC

Insert K-Key **(K)** or flat blade screwdriver into Arc Set Adjustment slot **(I)**. Turn clockwise to increase the arc or counter-clockwise to decrease the arc. **NOTE:** The arc set arrow in the center of the nozzle turret rotates to show the correct setting.





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MINI*PRO*™ GEAR DRIVEN SPRINKLER SETTING INSTRUCTIONS

Continued

SPRINKLER INSTALLATION

1. INSTALL AND BURY

Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. **NOTE:** Do not use pipe dope. Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2. INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can **(S)**. The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

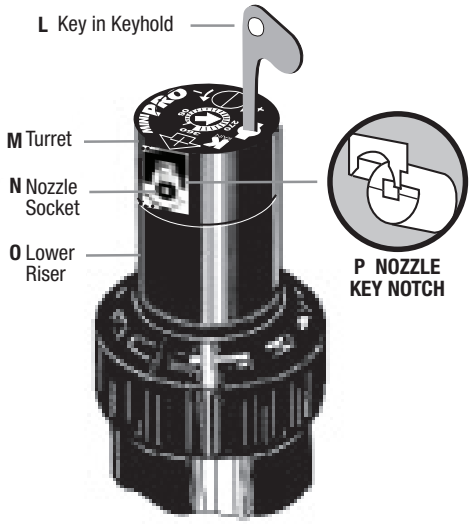
3. WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

a. Do not exceed 30 PSI.

b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr		PRECIP mm/hr	
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
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	50	345	3,45	20'	6,1	0.9	3,4	0,20	.43	.50	11	13
#1.0	30	207	2,07	26'	7,9	0.9	3,4	0,20	.26	.30	7	8
	40	276	2,76	27'	8,2	1.2	4,5	0,27	.32	.37	8	9
	50	345	3,45	27'	8,2	1.3	4,9	0,30	.34	.40	9	10
#1.5 Pre-installed	30	207	2,07	27'	8,2	1.5	5,7	0,35	.34	.40	9	10
	40	276	2,76	27'	8,2	1.8	6,8	0,41	.32	.37	8	9
	50	345	3,45	28'	8,5	2.0	7,6	0,46	.34	.39	9	10
#2.0	30	207	2,07	29'	8,8	2.0	7,6	0,46	.39	.44	10	11
	40	276	2,76	30'	9,1	2.3	8,7	0,53	.42	.49	11	12
	50	345	3,45	31'	9,4	2.7	10,2	0,62	.42	.49	10	12
#3.0	30	207	2,07	32'	9,8	3.0	11,4	0,69	.48	.55	12	14
	40	276	2,76	33'	10,1	3.4	12,9	0,78	.45	.51	11	13
	50	345	3,45	33'	10,1	3.8	14,4	0,87	.52	.60	13	15

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

J5105 Rev. 16

FAMCO
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PROPLUS™

Packed with features that ensure reliability, saving the installer time and money on every job.

- Revolutionary Patented Easy Arc Set – Simplified arc set allow for wet or dry adjustment in seconds.
- 3/4" Inlet – Replaces all standard rotors.
- 2N1 Adjustable or Continuous Rotation – Provides a full range adjustment from 40° to a continuous full circle.
- Patented Arc Set Degree Markings – Clearly indicates the current watering pattern and simplifies arc set adjustment.
- Arc Memory Clutch – Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turret is forced past its stop.
- Time Proven Patented Reversing Mechanism – Assures continuous reverse and return…over a 20 year history.
- Ratcheting Riser – Allows for easy adjustment of your left starting position with a simple turn of the riser.
- Rubber Cover – Seals out dirt and increases product durability.
- Wide Selection of Nozzles – Including standard and low angle, provides flexibility in system design.
- Optional Check Valve – Prevents low head drainage.

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

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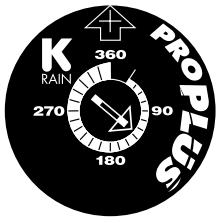
Arc Selection 40° to
Continuous 360°

Adjust From Left Start



Specifications

- Inlet: (1,9 cm) 3/4" Threaded NPT
- Arc Adjustment Range: 40° to Continuous 360°
- Flow Range: .5 – 10.0 GPM (1,9 – 37,8 LPM)
- Pressure Rating: 30 – 70 PSI (2 – 4,8 bar)
- Precipitation Rate: .12 – 1.01 in/hr (3 – 26 mm/hr) (Depending on Spacing and Nozzle Used)
- Retracted Height: 7 1/2" (19 cm)
- Riser Height: 4 1/2" (11,4 cm)
- Recommended Spacing: 28' – 44' (8,5 – 13,2 m)
- Radius: 22' – 50' (6,7 – 15,3 m)
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 12°
- Standard and Low Angle Nozzles Included

Models

11003	ProPlus
11003-RCW	ProPlus for reclaimed water with low angle nozzle

Other Options: Add to Part Number:

-CV	Check Valve
-LA	Low Angle Nozzle
-NN	No Nozzle

How to Specify

Model Number	Description
11003	-RCW

Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIPITATION			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr ▲		■ mm/hr ▲	
#0.5	30	207	2,1	28	8,5	0.5	1,9	0,11	0.12	0.14	3	4
	40	276	2,8	29	8,8	0.6	2,3	0,14	0.14	0.16	4	4
	50	345	3,5	29	8,8	0.7	2,7	0,16	0.16	0.19	4	5
	60	414	4,1	30	9,1	0.8	3,0	0,18	0.17	0.20	4	5
#0.75	30	207	2,1	29	8,8	0.7	2,7	0,16	0.16	0.19	4	5
	40	275	2,8	30	9,1	0.8	3,0	0,18	0.17	0.20	4	5
	50	344	3,4	31	9,4	0.9	3,4	0,20	0.18	0.21	5	5
	60	413	4,1	32	9,8	1.0	3,8	0,23	0.19	0.22	5	6
#1.0	30	207	2,1	32	9,8	1.3	4,9	0,30	0.24	0.28	6	7
	40	275	2,8	33	10,1	1.5	5,7	0,34	0.27	0.31	7	8
	50	344	3,4	34	10,4	1.6	6,1	0,36	0.27	0.31	7	8
	60	413	4,1	35	10,7	1.8	6,8	0,41	0.28	0.33	7	8
#2.0	30	207	2,1	37	11,3	2.4	9,1	0,55	0.34	0.39	9	10
	40	275	2,8	40	12,2	2.5	9,5	0,57	0.30	0.35	8	9
	50	344	3,4	42	12,8	3.0	11,4	0,68	0.33	0.38	8	10
	60	413	4,1	43	13,1	3.3	11,4	0,68	0.34	0.36	8	9
2.5	30	207	2,1	38	11,6	2.5	9,5	0,57	0.33	0.38	8	10
Pre-	40	275	2,8	39	11,9	2.8	10,6	0,64	0.35	0.41	9	10
installed	50	344	3,4	40	12,2	3.2	12,1	0,73	0.39	0.44	10	11
	60	413	4,1	41	12,5	3.5	13,3	0,80	0.40	0.46	10	12
#3.0	30	207	2,1	38	11,6	3.6	13,6	0,82	0.48	0.55	12	14
	40	275	2,8	39	11,9	4.2	15,9	0,96	0.53	0.61	13	15
	50	344	3,4	41	12,5	4.6	17,4	1,05	0.53	0.61	13	15
	60	413	4,1	42	12,8	5.0	19,0	1,14	0.55	0.63	14	16
#4.0	30	207	2,1	43	13,1	4.4	16,7	1,00	0.46	0.53	12	13
	40	275	2,8	44	13,4	5.1	19,3	1,16	0.51	0.59	13	15
	50	344	3,4	46	14,0	5.6	21,2	1,27	0.51	0.59	13	15
	60	413	4,1	49	14,9	5.9	22,4	1,34	0.47	0.55	12	14
#6.0	40	276	2,8	45	13,7	5.9	22,4	1,34	0.56	0.65	14	17
	50	344	3,4	46	14,0	6.0	22,7	1,36	0.55	0.63	14	16
	60	413	4,1	48	14,6	6.3	23,9	1,43	0.53	0.61	13	15
	70	482	4,8	49	14,9	6.7	25,4	1,52	0.54	0.62	14	16
#8.0	40	276	2,8	42	12,8	8.0	30,3	1,82	0.87	1.01	22	26
	50	344	3,4	45	13,7	8.5	32,2	1,93	0.81	0.93	21	24
	60	413	4,1	49	14,9	9.5	36,0	2,16	0.76	0.88	19	22
	70	482	4,8	50	15,2	10.	37,9	2,27	0.77	0.89	20	23

Low Angle Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIPITATION			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr ▲		■ mm/hr ▲	
#1.0	30	207	2,1	22	6,7	1.2	4,5	0,27	0.48	0.55	12	14
	40	276	2,8	24	7,3	1.7	6,4	0,39	0.57	0.66	14	17
	50	345	3,4	26	7,9	1.8	6,8	0,41	0.51	0.59	13	15
	60	414	4,1	28	8,5	2.0	7,6	0,45	0.49	0.57	12	14
#3.0	30	207	2,1	29	8,8	3.0	11,4	0,68	0.69	0.79	18	20
	40	276	2,8	32	9,8	3.1	11,7	0,70	0.58	0.67	15	17
	50	345	3,4	35	10,7	3.5	13,2	0,80	0.55	0.64	14	16
	60	414	4,1	37	11,3	3.8	14,4	0,86	0.53	0.62	14	16
#4.0	30	207	2,1	31	9,4	3.4	12,9	0,77	0.68	0.79	17	20
	40	276	2,8	34	10,4	3.9	14,8	0,89	0.65	0.75	17	19
	50	345	3,4	37	11,3	4.4	16,7	1,00	0.62	0.71	16	18
	60	414	4,1	38	11,6	4.7	17,8	1,07	0.63	0.72	16	18
#6.0	40	275	2,8	38	11,6	6.5	24,6	1,48	0.87	1.00	22	25
	50	344	3,4	40	12,2	7.3	27,7	1,66	0.88	1.01	22	26
	60	413	4,1	42	12,8	8.0	30,3	1,82	0.87	1.01	22	26
	70	482	4,8	44	13,4	8.6	32,6	1,96	0.86	0.99	22	25

All precipitation rates are calculated for 180° operation.
For the percipitation rate for a 360° sprinkler, divide by 2.

K RAIN®

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

ProPlus™ Gear Driven Sprinkler Setting Instructions

NOTE: The ***ProPlus*** is factory preset with a 90° arc setting, and includes a pre-installed #2.5 nozzle.

CHANGING A NOZZLE

1 ▶ REMOVING THE NOZZLE RETENTION SCREW

Use your K-Key or a small flat blade screwdriver to remove the nozzle retention screw by turning counter-clockwise to remove and clockwise to re-install.

2 ▶ PULL UP THE RISER

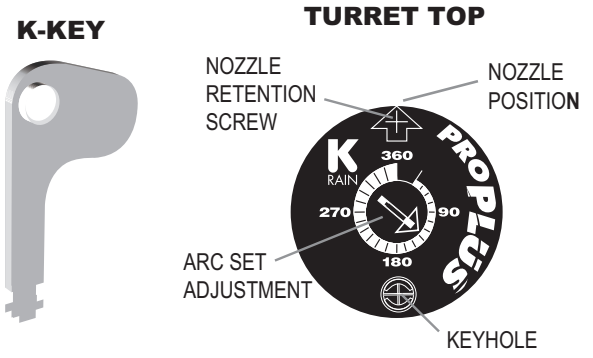
Insert the k-Key in the keyhole on the top of the nozzle turret and turn the key 1/4 turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket. Hold the riser assembly with one hand.

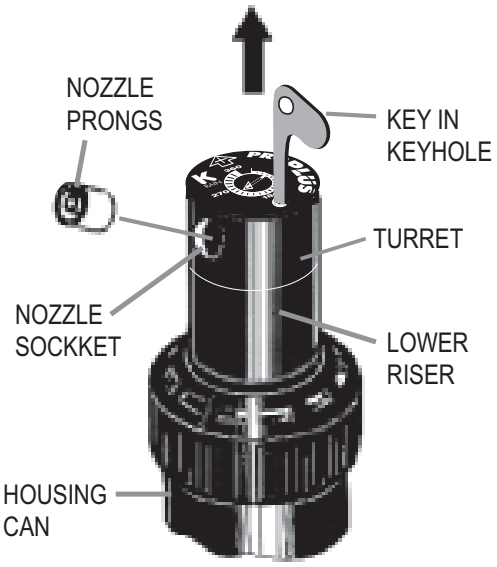
3 ▶ REMOVING THE NOZZLE

With the nozzle retention screw removed, insert the K-Key into the slot directly under the nozzle “prongs” at the top of the mozzle. Now, turn the key 1/4 turn to “hook” the nozzle and pull the nozzle out.

4 ▶ INSTALLING A NOZZLE

Press the desired nozzle into the nozzle socket. Make sure the nozzle number is visible and the nozzle “prongs” are up. Then, re-install the nozzle retention screw. **NOTE:** The nozzle retention screw is also a break-up screw and used to adjust the distance of the spray.





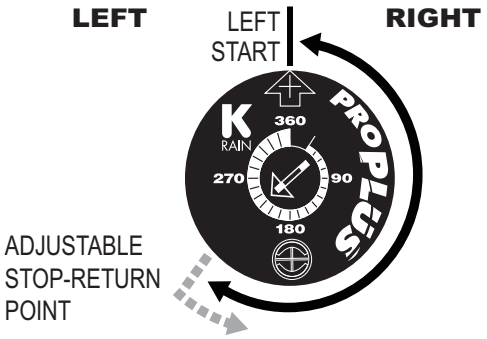
SETTING THE ARC ADJUSTMENT

1 ▶ FINDING THE LEFT START POSITION

Place your finger on the top center of the nozzle turret. Rotate the turret to the right until it stops and then back to the left until it stops. Notice the position of the nozzle arrow. This is the “Left Start” position. The sprinkler will begin spraying from this position and rotate clockwise until it reaches the right Adjustable Stop-Return Point.

2 ▶ ORIENTING THE LEFT START POSITION

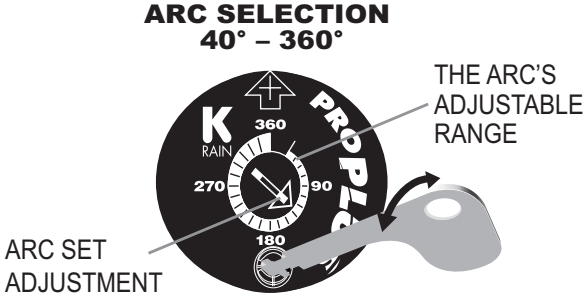
Insert the K-Key in the keyhole on the top of the nozzle turret and turn the key ¼ turn to insure that the key does not slip out of the keyhole when you pull it up. Being careful not to allow the nozzle turret to turn, firmly pull up the entire spring-loaded riser. Hold the lower riser assembly up with one hand. Now turn only the lower riser clockwise or counter-clockwise until the nozzle arrow is pointing where you want the sprinkler to begin spraying.



3 ▶ CHANGING THE ARC

Insert the K-Key or a small flat blade screwdriver into the Arc Set Adjustment slot. Turn clockwise to increase the arc or counter-clockwise to decrease the arc.

WHEN SET AT 360°, THE *PROPLUS* WILL ROTATE CONTINUOUSLY IN A CLOCKWISE DIRECTION.



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روبروی پالایشگاه نفت پارس، پلاک ۱۲

ProPlus™ Gear Driven Sprinkler Setting Instructions

SPRINKLER INSTALLATION

1 ▶ INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2 ▶ INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

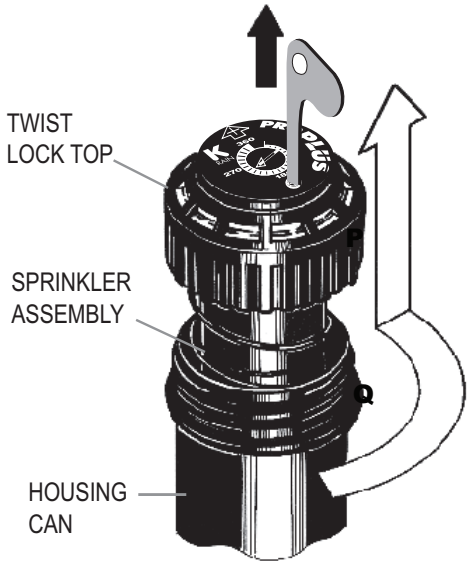
3 ▶ WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

a. Do not exceed 30 PSI.

b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



PERFORMANCE DATA

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr / mm/hr			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
#0.5	30	207	2.1	28	8.5	0.5	1.9	0.11	0.12	0.14	3	4
	40	276	2.8	29	8.8	0.6	2.3	0.14	0.14	0.16	3	4
	50	345	3.5	29	8.8	0.7	2.7	0.16	0.16	0.19	4	5
	60	414	4.1	30	9.1	0.8	3.0	0.18	0.17	0.20	4	5
#0.75	30	207	2.1	29	8.8	0.7	2.7	0.16	0.16	0.19	4	5
	40	275	2.8	30	9.1	0.8	3.0	0.18	0.17	0.20	4	5
	50	344	3.4	31	9.4	0.9	3.4	0.20	0.18	0.21	5	5
	60	413	4.1	32	9.8	1.0	3.8	0.23	0.19	0.22	5	6
#1.0	30	207	2.1	32	9.8	1.3	4.9	0.30	0.24	0.28	6	7
	40	275	2.8	33	10.1	1.5	5.7	0.34	0.27	0.31	7	8
	50	344	3.4	34	10.4	1.6	6.1	0.36	0.27	0.31	7	8
	60	413	4.1	35	10.7	1.8	6.8	0.41	0.28	0.33	7	8
#2.0	30	207	2.1	37	11.3	2.4	9.1	0.55	0.34	0.39	9	10
	40	275	2.8	40	12.2	2.5	9.5	0.57	0.30	0.35	8	9
	50	344	3.4	42	12.8	3.0	11.4	0.68	0.33	0.38	8	10
	60	413	4.1	43	13.1	3.3	11.4	0.68	0.34	0.36	8	9
2.5 Pre-installed	30	207	2.1	38	11.6	2.5	9.5	0.57	0.33	0.38	8	10
	40	275	2.8	39	11.9	2.8	10.6	0.64	0.35	0.41	9	10
	50	344	3.4	40	12.2	3.2	12.1	0.73	0.39	0.44	10	11
	60	413	4.1	41	12.5	3.5	13.3	0.80	0.40	0.46	10	12
#3.0	30	207	2.1	38	11.6	3.6	13.6	0.82	0.48	0.55	12	14
	40	275	2.8	39	11.9	4.2	15.9	0.96	0.53	0.61	14	16
	50	344	3.4	41	12.5	4.6	17.4	1.05	0.53	0.61	13	15
	60	413	4.1	42	12.8	5.0	19.0	1.14	0.55	0.63	14	16
#4.0	30	207	2.1	43	13.1	4.4	16.7	1.00	0.46	0.53	12	13
	40	275	2.8	44	13.4	5.1	19.3	1.16	0.51	0.59	13	15
	50	344	3.4	46	14.0	5.6	21.2	1.27	0.51	0.59	13	15
	60	413	4.1	49	14.9	5.9	22.4	1.34	0.47	0.55	12	14
#6.0	40	276	2.8	45	13.7	5.9	22.4	1.34	0.56	0.65	14	16
	50	344	3.4	46	14.0	6.0	22.7	1.36	0.55	0.63	14	16
	60	413	4.1	48	14.6	6.3	23.9	1.43	0.53	0.61	13	15
	70	482	4.8	49	14.9	6.7	25.4	1.52	0.54	0.62	14	16
#8.0	40	276	2.8	42	12.8	8.0	30.3	1.82	0.87	1.01	22	26
	50	344	3.4	45	13.7	8.5	32.2	1.93	0.81	0.93	21	24
	60	413	4.1	49	14.9	9.5	36.0	2.16	0.76	0.88	19	22
	70	482	4.8	50	15.2	10.0	37.9	2.27	0.77	0.89	20	23

LOW ANGLE PERFORMANCE DATA

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr / mm/hr			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
#1.0	30	207	2.1	22	6.7	1.2	4.5	.27	0.48	0.55	12	14
	40	276	2.8	24	7.3	1.7	6.4	.39	0.57	0.66	14	17
	50	345	3.4	26	7.9	1.8	6.8	.41	0.51	0.59	13	15
	60	414	4.1	28	8.5	2.0	7.6	.45	0.49	0.57	12	14
#3.0	30	207	2.1	29	8.8	3.0	11.4	.68	0.69	0.79	17	20
	40	276	2.8	32	9.8	3.1	11.7	.70	0.58	0.67	15	17
	50	345	3.4	35	10.7	3.5	13.2	.80	0.55	0.64	14	16
	60	414	4.1	37	11.3	3.8	14.4	.86	0.53	0.62	14	16
#4.0	30	207	2.1	31	9.4	3.4	12.9	.77	0.68	0.79	17	20
	40	276	2.8	34	10.4	3.9	14.8	.89	0.65	0.75	17	19
	50	345	3.4	37	11.3	4.4	16.7	1.00	0.62	0.71	16	18
	60	414	4.1	38	11.6	4.7	17.8	1.07	0.63	0.72	16	18
#6.0	40	275	2.8	38	11.6	6.5	24.6	1.48	0.87	1.00	22	25
	50	344	3.4	40	12.2	7.3	27.7	1.66	0.88	1.01	22	26
	60	413	4.1	42	12.8	8.0	30.3	1.82	0.87	1.01	22	26
	70	482	4.8	44	13.4	8.6	32.6	1.96	0.86	0.99	22	25

**All precipitation rates calculated for 180° operation.*
For the precipitation rate for a 360° sprinkler, divide by 2.

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www.krain.com

Part Number: 1100519 Rev. 01

FAMCO
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RPS 50

Designed for smaller areas and is available with a wide selection of nozzles that bring flexibility to system design.

- Right position start – rotor rotates counterclockwise from fixed right start position.
- Time proven patented reversing mechanism – Assures continuous reverse and return…over a 20 year history.
- Ratcheting riser – allows for easy adjustment of your right starting position with a simple turn of the riser.
- Rubber cover – seals out dirt and increases product durability.
- Wide selction of nozzles – provides flexibility in system design.
- Optional check valve – prevents low head drainage.

K RAIN®

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پـارس، پلاک ۱۲

FAMCO
هایپرصنعت

RPS50

The RPS50 is a gear-driven, rotary sprinkler, capable of covering an area of 18' to 36' (5,5 to 11 m) radius at nozzle pressure of 30 to 50 PSI (2,1 to 3,4 bar) with a discharge rate of .8 to 3.3 GPM (2,8 to 12,5 LPM).

The RPS50 is supplied with five (5) numerically coded interchangeable nozzles. Sprinkler nozzle trajectory is 26°. The sprinkler has a stainless steel radius adjustment screw and has arc adjustment from 40° to 360°.

Easy Arc Setting

Arc Selection 40° to 360°
Adjust From Right Start

Models

RPS50 RPS® 50 Rotor

Other options add to part number:

-CV	Check Valve

Specifications

- Inlet: 1/2" Threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: .8 – 3.3 GPM
- Pressure Rating: 30 - 70 PSI
- Precipitation Rate: .26 to .60 in./hr. (Depending on Spacing & Nozzle Used)
- Overall Height (Popped Down): 6"
- Recommended Spacing: 17' to 34'
- Radius: 18' to 36'
- Nozzle Trajectory: 25°
- Riser Height: 4"

How to Specify:

Model Number	Description
RPS50	-RCW

Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIPITATION			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M^3/H	■ in/hr ▲		■ mm/hr ▲	
#0.75	30	207	2,07	18'	5,5	0.8	2,8	0,17	.45	.51	11	13
	40	276	2,76	19'	5,8	0.8	3,0	0,18	.43	.49	11	13
	50	345	3,45	20'	6,1	0.9	3,4	0,20	.43	.50	11	13
#1.0	30	207	2,07	26'	7,9	0.9	3,4	0,20	.26	.30	7	8
	40	276	2,76	27'	8,2	1.2	4,5	0,27	.32	.37	8	9
	50	345	3,45	27'	8,2	1.3	4,9	0,30	.34	.40	9	10
#1.5 Pre-installed	30	207	2,07	27'	8,2	1.5	5,7	0,35	.34	.40	9	10
	40	276	2,76	27'	8,2	1.8	6,8	0,41	.32	.37	8	9
	50	345	3,45	28'	8,5	2.0	7,6	0,46	.34	.39	9	10
#2.0	30	207	2,07	29'	8,8	2.0	7,6	0,46	.39	.44	10	11
	40	276	2,76	30'	9,1	2.3	8,7	0,53	.42	.49	11	12
	50	345	3,45	31'	9,4	2.7	10,2	0,62	.42	.49	10	12
#3.0	30	207	2,07	32'	9,8	3.0	11,4	0,69	.48	.55	12	14
	40	276	2,76	33'	10,1	3.4	12,9	0,78	.45	.51	11	13
	50	345	3,45	33'	10,1	3.8	14,4	0,87	.52	.60	13	15

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پـارس، پلاک ۱۲

FAMCO
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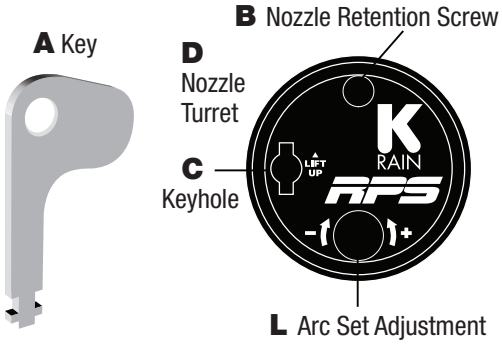
RPS® 50 Gear Driven Sprinkler Setting Instructions

NOTE: The **RPS 50** is factory preset with a 40° arc setting, and includes a pre-installed #1.5 nozzle.

CHANGING A NOZZLE

1 ▶ REMOVING THE NOZZLE RETENTION SCREW

Use the Key (A) to remove the nozzle retention screw (B) by turning counter-clockwise to remove or clockwise to re-install.



2 ▶ PULL UP THE RISER

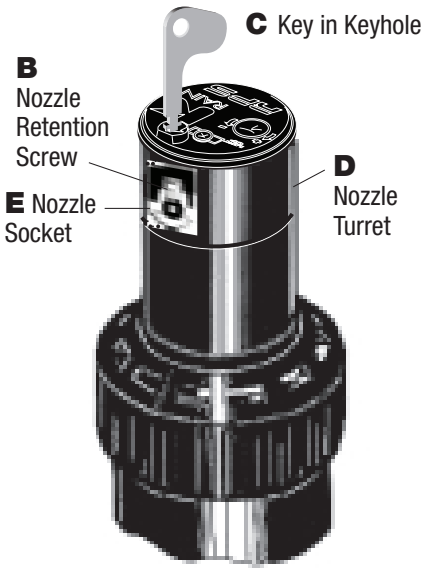
Insert the Key (A) in the keyhole (C) on the top of the nozzle turret (D) and turn the key 1/4 turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket (E). Hold the riser assembly with one hand.

3 ▶ REMOVING THE NOZZLE

With nozzle retention screw removed, the nozzle may be removed by either turning on the water (wear safety glasses when using this method), or by pulling outward on nozzle wing (F) with a pair of needle-nose pliers.

4 ▶ INSTALLING A NOZZLE

Press the desired nozzle (G) into the nozzle socket (E). Make sure the nozzle number is visible and the nozzle wing (F) are up. Then, re-install the nozzle retention screw (B). NOTE: The nozzle retention screw is also a break-up screw and used to adjust the distance of the spray.

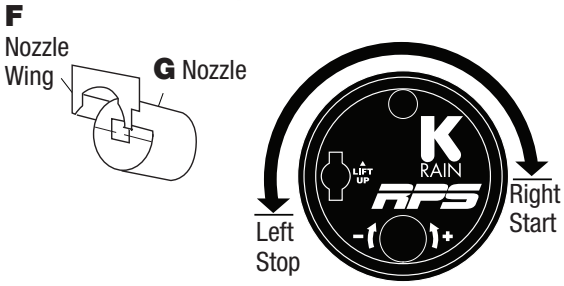


SETTING THE ARC ADJUSTMENT

NOTE: The **RPS50** Gear Driven Sprinkler has a fixed right start and an adjustable left stop.

1 ▶ POSITIONING NOZZLE TURRET TO ITS "RIGHT START"

Place your finger on the top center of the nozzle turret (D). Rotate the turret counter-clockwise to the left stop to complete any interrupted rotation cycle. Rotate the nozzle turret clockwise to the right start. This is the fixed side of the arc. The nozzle turret must be held in this position for arc adjustments. The right start does not change.

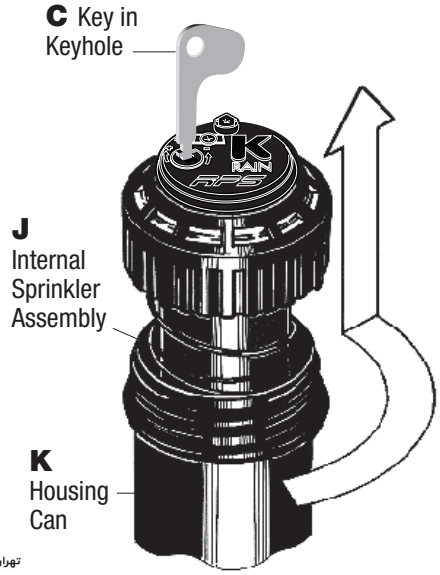


2 ▶ ADJUSTING THE RIGHT (FIXED) SIDE OF ARC

If the right side of the arc is not properly aligned, sprinkler may spray in areas not intended for watering such as driveways or adjacent properties. The right side arc can easily be realigned.

OPTION 1: REPOSITION CAN ON THE FITTING
Turn the housing can left or right to the desired position. This may require temporary removal of the soil around the sprinkler to allow you to grip the sprinkler can.

OPTION 2: REMOVE INTERNAL RISER ASSEMBLY AND REPOSITION
Unscrew the top counter-clockwise and remove the internal sprinkler assembly (J) from the can (K). Once removed with nozzle turret (D) at its right start, reposition the riser assembly so that nozzle arrow points to the desired start position. Replace the riser assembly back in the can and screw on the top. At this point you have realigned the right arc stop, and you can adjust the left arc to an appropriate setting.



(continued on reverse side)

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

RPS® 50 Gear Driven Sprinkler Setting Instructions

SETTING THE ARC ADJUSTMENT

(continued from reverse side)

3 ▶ ADJUSTING THE LEFT (VARIABLE) SIDE OF THE ARC

INCREASING THE ARC

Insert the Key (A) into the arc set adjustment slot (L). While holding the nozzle turret (D) at the right start, turn the Key clockwise. Each full 360° turn of the Key will increase the arc 90°. Adjust to any arc between 40° and 360°. The Key will stop turning, or there will be ratcheting noise, when the maximum arc of 360° has been reached.

DECREASING THE ARC

Insert the Key (A) into the arc set adjustment slot (L). While holding the nozzle turret (D) at the right start, turn the Key counter-clockwise. Each full 360° turn of the Key will decrease the arc 90°. Adjust to any arc between 40° and 360°. The Key will stop turning, or there will be a ratcheting noise, when the minimum arc of 40° has been reached.

SPRINKLER INSTALLATION

1 ▶ INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2 ▶ INSPECTING THE FILTER

Unscrew top and lift complete sprinkler assembly (J) out of housing can (K). The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

3 ▶ WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

a. Do not exceed 30 PSI.

b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.

Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr		PRECIP mm/hr	
	PSI	kPa	Bars	Fl.	M.	GPM	L/M	M^3/H	■	▲	■	▲
#0.75	30	207	2,07	18'	5,5	0.8	2,8	0,17	.45	.51	11	13
	40	276	2,76	19'	5,8	0.8	3,0	0,18	.43	.49	11	13
	50	345	3,45	20'	6,1	0.9	3,4	0,20	.43	.50	11	13
#1.0	30	207	2,07	26'	7,9	0.9	3,4	0,20	.26	.30	7	8
	40	276	2,76	27'	8,2	1.2	4,5	0,27	.32	.37	8	9
	50	345	3,45	27'	8,2	1.3	4,9	0,30	.34	.40	9	10
#1.5 Pre-installed	30	207	2,07	27'	8,2	1.5	5,7	0,35	.34	.40	9	10
	40	276	2,76	27'	8,2	1.8	6,8	0,41	.32	.37	8	9
	50	345	3,45	28'	8,5	2.0	7,6	0,46	.34	.39	9	10
#2.0	30	207	2,07	29'	8,8	2.0	7,6	0,46	.39	.44	10	11
	40	276	2,76	30'	9,1	2.3	8,7	0,53	.42	.49	11	12
	50	345	3,45	31'	9,4	2.7	10,2	0,62	.42	.49	10	12
#3.0	30	207	2,07	32'	9,8	3.0	11,4	0,69	.48	.55	12	14
	40	276	2,76	33'	10,1	3.4	12,9	0,78	.45	.51	11	13
	50	345	3,45	33'	10,1	3.8	14,4	0,87	.52	.60	13	15

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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Part Number: 13005123 Rev. 0

RPS™ 75 ROTOR SERIES

The RPS™ 75 Series of rotors are designed to fulfill a multitude of residential and commercial applications.

Features

- **3/4" (1,9 cm) Inlet** – Replaces all standard rotors.
- **Right Position Start** – Rotor rotates counterclockwise from fixed right start position.
- **Top Adjustment** – Adjusts from right start.
- **Full and Part Circle Rotation** – Provides a full range of adjustment from 40° to 360°.
- **Non-flushing Wiper Seal** – Reduces leaks caused by debris trapped under seal.
- **Ideal for Low Flow Applications.**
- **Rubber Cover** – Seals out dirt and increases durability.
- **Wide Selection of Nozzles** – Including standard and low angle, provides flexibility in system design.
- **Universal Riser Assembly** – Fits into existing Hunter® PGP® and PGP® Ultra cans
- **Pressure Regulated** – 45 PSI available (6" only)
- **Includes 5 Free Check Valve Assemblies Per Box**

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

RPS™ 75 Rotor Series

The reliable and durable design of the RPS™ 75 has unequalled value in the market today.

The Continuous 360° is the perfect fit for a central location in an RPS™ 75 based irrigation system.

The RPS™ 75-6INCH rotor solves the problem of deep thatch.

Customization

Easily customize any of the RPS™ 75 rotors to promote your business. Visit www.krain.com/custom-rotor-program for all of the details.

Specifications

- Inlet: 3/4" (1,9 cm) female thread NPT
- Arc Adjustment Range: 40° – 360°
- Flow Range: 0.7 – 8.3 GPM (2,6 – 31 LPM)
- Pressure Rating: 20 – 70 PSI (1,4 – 4,8 bar)
- Precipitation Rate: .16 – 1.0 in/hr (4 – 25,4 mm/hr) (Depending on spacing and nozzle used)
- Retracted Height: 4 in: 7 3/8", 6 in: 9 1/2"
- Riser Height: 4 in: 4 3/8", 6 in: 6 3/8"
- Shrub Height: 7 1/2"
- Recommended Spacing: 25' – 45' (7,6 – 13,7 m)
- Radius: 22' – 51' (6,7 – 15,5 m)
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 11°
- 8 Standard and 4 Low Angle Nozzles Included

Models

RPS75	RPS™ 75 Rotor
RPS75-360°	RPS™ 75 Rotor, 360°
RPS75-SH	RPS™ 75 Rotor, Shrub
RPS75-360°-SH	RPS™ 75 Rotor, 360°, Shrub
RPS75-6INCH	6" (15,2 cm) RPS™ 75 Rotor

How to Specify with Options

MODEL	OPTION	
RPS75	**-SS**	Stainless Steel
RPS75-360°	**-CV**	Check valve
RPS75-SH	**-NN**	No nozzle
RPS75-360°-SH	**-RCW**	Reclaimed water use
RPS75-6INCH	**-PR**	Pressure Regulation (6"only)

Examples: RPS75-SS, RPS75-360°-RCW-CV

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

PERFORMANCE DATA

Performance Data

NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP IN/HR ■	PRECIP IN/HR ▲
#.75	30	29	0.7	.16	.19
	40	30	0.8	.17	.20
	50	30	0.9	.19	.22
	60	31	1.0	.20	.23
#1.0	30	30	0.9	.19	.22
	40	31	1.0	.20	.23
	50	31	1.2	.24	.28
	60	32	1.3	.24	.28
#1.5	30	32	1.2	.23	.26
	40	33	1.4	.25	.29
	50	34	1.6	.27	.31
	60	34	1.8	.30	.35
#2.0	30	34	1.6	.27	.31
	40	36	1.8	.27	.31
	50	38	2.0	.27	.31
	60	38	2.2	.29	.34
#3.0 Pre-Installed	30	36	2.0	.30	.34
	40	38	2.4	.32	.37
	50	40	2.7	.32	.38
	60	40	2.9	.35	.40
#4.0	30	36	2.6	.39	.45
	40	40	3.0	.36	.42
	50	42	3.4	.37	.43
	60	42	3.7	.40	.47
#6.0	40	38	4.2	.56	.65
	50	43	4.9	.51	.59
	60	46	5.5	.50	.58
	70	47	6.0	.52	.60
#8.0	40	45	6.0	.57	.66
	50	48	6.8	.57	.66
	60	49	7.6	.61	.70
	70	51	8.2	.61	.70

Performance Data, Metric

NOZZLE	PRESSURE BAR	RADIUS Meter	FLOW L/M	PRECIP IN/HR ■	PRECIP IN/HR ▲
#.75	2,1	8,8	2,6	4	5
	2,8	9,1	3,0	4	5
	3,4	9,1	3,4	5	6
	4,1	9,4	3,8	5	6
#1.0	2,1	9,1	3,4	5	6
	2,8	9,4	3,8	5	6
	3,4	9,4	4,5	6	7
	4,1	9,8	4,9	6	7
#1.5	2,1	9,8	4,5	5	7
	2,8	10,1	5,3	6	7
	3,4	10,4	6,1	7	8
	4,1	10,4	6,8	8	9
#2.0	2,1	10,4	6,1	7	8
	2,8	11,0	6,8	7	8
	3,4	11,6	7,6	7	8
	4,1	11,6	8,3	7	9
#3.0 Pre-Installed	2,1	11,0	7,6	8	9
	2,8	11,6	9,1	8	9
	3,4	12,2	10,2	8	10
	4,1	12,2	11,0	9	10
#4.0	2,1	11,0	9,8	10	11
	2,8	12,2	11,4	9	11
	3,4	12,8	12,9	9	11
	4,1	12,8	14,0	10	12
#6.0	2,8	11,6	15,9	14	17
	3,4	13,1	18,5	13	15
	4,1	14,0	20,8	13	15
	4,8	14,3	22,7	13	15
#8.0	2,8	13,7	22,7	14	17
	3,4	14,6	25,7	14	17
	4,1	14,9	28,8	15	18
	4,8	15,5	31,0	15	18

Low Angle Performance Data

NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP IN/HR ■	PRECIP IN/HR ▲
#1.0	30	22	1.2	.48	.55
	40	24	1.7	.57	.66
	50	26	1.8	.51	.59
	60	28	2.0	.49	.57
#3.0	30	29	3.0	.69	.79
	40	32	3.1	.58	.67
	50	35	3.5	.55	.64
	60	37	3.8	.53	.62
#4.0	30	31	3.4	.68	.79
	40	34	3.9	.65	.75
	50	37	4.4	.62	.71
	60	38	4.7	.63	.72
#6.0	40	38	6.5	.87	1.00
	50	40	7.3	.88	1.01
	60	42	8.0	.87	1.01
	70	44	8.3	.86	.99

Low Angle Performance Data, Metric

NOZZLE	PRESSURE BAR	RADIUS Meter	FLOW L/M	PRECIP IN/HR ■	PRECIP IN/HR ▲
#1.0	2,1	6,7	4,5	12	14
	2,8	7,3	6,4	14	17
	3,4	7,9	6,8	13	15
	4,1	8,5	7,6	12	14
#3.0	2,1	8,8	11,4	18	20
	2,8	9,8	11,7	15	17
	3,4	10,7	13,2	14	16
	4,1	11,3	14,4	13	16
#4.0	2,1	9,4	12,9	17	20
	2,8	10,4	14,8	17	19
	3,4	11,3	16,7	16	18
	4,1	11,6	17,8	16	18
#6.0	2,8	11,6	24,6	22	25
	3,4	12,2	27,6	22	26
	4,1	12,8	30,3	22	26
	4,8	13,4	32,6	22	25

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

- Pressure Regulated -
PERFORMANCE DATA

PR Performance Data

NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP IN/HR ■	PRECIP IN/HR ▲
#.75	30	29	0.7	0.16	0.19
	40	30	0.8	0.17	0.20
	50	30	0.9	0.19	0.22
	60	30	0.9	0.19	0.22
#1.0	30	30	0.9	0.19	0.22
	40	31	1.0	0.20	0.23
	50	31	1.2	0.24	0.28
	60	31	1.2	0.24	0.28
#1.5	30	32	1.2	0.23	0.26
	40	33	1.4	0.25	0.29
	50	34	1.6	0.27	0.31
	60	34	1.6	0.27	0.31
#2.0	30	34	1.6	0.27	0.31
	40	36	1.8	0.27	0.31
	50	38	2.0	0.27	0.31
	60	38	2.0	0.27	0.31
#3.0 Pre-Installed	30	36	2.0	0.30	0.34
	40	38	2.4	0.32	0.37
	50	40	2.7	0.32	0.38
	60	40	2.7	0.32	0.38
#4.0	30	36	2.6	0.39	0.45
	40	40	3.0	0.36	0.42
	50	42	3.4	0.37	0.43
	60	42	3.4	0.37	0.43
#6.0	40	38	4.2	0.56	0.65
	50	43	4.9	0.51	0.59
	60	43	4.9	0.51	0.59
	70	43	4.9	0.51	0.59
#8.0	40	45	6.0	0.57	0.66
	50	48	6.8	0.57	0.66
	60	48	6.8	0.57	0.66
	70	48	6.8	0.57	0.66

PR Performance Data, Metric

NOZZLE	PRESSURE BAR	RADIUS Meter	FLOW L/M	PRECIP IN/HR ■	PRECIP IN/HR ▲
#.75	2.1	8.8	2.7	4	5
	2.8	9.2	3.0	4	5
	3.5	9.2	3.4	5	6
	4.1	9.2	3.4	5	6
#1.0	2.1	9.2	3.4	5	6
	2.8	9.5	3.8	5	6
	3.5	9.5	4.5	6	7
	4.1	9.5	4.5	6	7
#1.5	2.1	9.8	4.5	6	7
	2.8	10.1	5.3	6	7
	3.5	10.4	6.1	7	8
	4.1	10.4	6.1	7	8
#2.0	2.1	10.4	6.1	7	8
	2.8	11.0	6.8	7	8
	3.5	11.6	7.6	7	8
	4.1	11.6	7.6	7	8
#3.0 Pre-Installed	2.1	11.0	7.6	8	9
	2.8	11.6	9.1	8	9
	3.5	12.2	10.2	8	10
	4.1	12.2	10.2	8	10
#4.0	2.1	11.0	9.9	10	11
	2.8	12.2	11.4	9	11
	3.5	12.8	12.9	9	11
	4.1	12.8	12.9	9	11
#6.0	2.8	11.6	15.9	14	17
	3.5	13.1	18.6	13	15
	4.1	13.1	18.6	13	15
	4.8	13.1	18.6	13	15
#8.0	2.8	13.7	22.7	14	17
	3.5	14.6	25.8	14	17
	4.1	14.6	25.8	14	17
	4.8	14.6	25.8	14	17

PR Low Angle Performance Data

NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP IN/HR ■	PRECIP IN/HR ▲
#1.0	30	22	1.2	0.48	0.55
	40	24	1.7	0.57	0.66
	50	26	1.8	0.51	0.59
	60	26	1.8	0.51	0.59
#3.0	30	29	3.0	0.69	0.79
	40	32	3.1	0.58	0.67
	50	35	3.5	0.55	0.64
	60	35	3.5	0.55	0.64
#4.0	30	31	3.4	0.68	0.79
	40	34	3.9	0.65	0.75
	50	37	4.4	0.62	0.71
	60	37	4.4	0.62	0.71
#6.0	40	38	6.5	0.87	1.00
	50	40	7.3	0.88	1.01
	60	40	7.3	0.88	1.01
	70	40	7.3	0.88	1.01

PR Low Angle Performance Data , Metric

NOZZLE	PRESSURE BAR	RADIUS Meter	FLOW L/M	PRECIP IN/HR ■	PRECIP IN/HR ▲
#1.0	2.1	6.7	4.5	12	14
	2.8	7.3	6.4	14	17
	3.5	7.9	6.8	13	15
	4.1	7.9	6.8	13	15
#3.0	2.1	8.8	11.4	18	20
	2.8	9.8	11.7	15	17
	3.5	10.7	13.3	14	16
	4.1	10.7	13.3	14	16
#4.0	2.1	9.5	12.9	17	20
	2.8	10.4	14.8	17	19
	3.5	11.3	16.7	16	18
	4.1	11.3	16.7	16	18
#6.0	2.8	11.6	24.6	22	25
	3.5	12.2	27.7	22	26
	4.1	12.2	27.7	22	26
	4.8	12.2	27.7	22	26

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

Rev. 07

RPS® 75 Gear Driven Sprinkler Setting Instructions

NOTE: The **RPS 75** is factory preset with a 180° arc setting, and includes a pre-installed #3 nozzle.

CHANGING A NOZZLE

1. REMOVING THE NOZZLE RETENTION SCREW

Use the hex **(B)** end of the Key to remove the nozzle retention screw by turning counter-clockwise to remove or clockwise to re-install.

2. PULL UP THE RISER

Insert the **(A)** end of the Key in the keyhole **(L)** on the top of the nozzle turret **(I)** and turn the key 1/4 turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket **(G).** Hold riser assembly with one hand.

3. REMOVING THE NOZZLE

With nozzle retention screw removed, the nozzle may be removed by pulling outward on the nozzle prongs **(D)** with a pair of needle-nose pliers.

4. INSTALLING A NOZZLE

Press the desired nozzle **(C)** into the nozzle socket **(G)**. Make sure the nozzle number is visible and the nozzle "prongs" **(D)** are up. Then, re-install the nozzle retention screw **(F). NOTE:** The nozzle retention screw is also a break-up screw, used to adjust the distance of the spray.

SETTING THE ARC ADJUSTMENT

NOTE: The RPS75 Gear Driven Sprinkler has a fixed right start and an adjustable left stop.

1. POSITIONING NOZZLE TURRET TO ITS "RIGHT START"

Place your fingers on the top center of the nozzle turret **(I)**. Rotate the turret counter-clockwise to the left stop to complete any interrupted rotation cycle. Rotate the nozzle turret clockwise to the right start. This is the fixed side of the arc. The nozzle turret must be held in this position for arc adjustments. The right start does not change.

2. ADJUSTING THE RIGHT (FIXED) SIDE OF ARC

If the right side of the arc is not properly aligned, the sprinkler may spray in areas not intended for watering such as driveways or adjacent properties. The right side arc can easily be realigned.

OPTION 1: REPOSITION CAN ON THE FITTING

Turn the sprinkler can **(K)** and the fitting below it left or right to the desired position. This may require temporary removal of the soil around the sprinkler to allow you to grip the sprinkler can.

OPTION 2: REMOVE INTERNAL RISER ASSEMBLY AND REPOSITION

Unscrew the top **(H)** counter-clockwise and remove the internal riser assembly from the can. Once removed with nozzle turret **(I)** at its right start, reposition the riser assembly so that nozzle arrow points to the desired start position. Replace the riser assembly back in the can and screw on the top. At this point you have realigned the right arc stop, and you can adjust the left arc to an appropriate setting.

OPTION 3: MANUALLY RAISE RISER AND REPOSITION

Insert the Key into the keyhole (L) and pull up on the riser. Using your hand, turn the riser to reposition the right start.

3. ADJUSTING THE LEFT (VARIABLE) SIDE OF THE ARC

INCREASING THE ARC

Insert the **(A)** end of the Key into the arc set adjustment slot **(M)**. While holding the nozzle turret **(I)** at the right start, turn the Key clockwise. Each full 360° turn of the Key will increase the arc 90°. Adjust to any arc between 40° and 360°. The Key will stop turning, or there will be ratcheting noise, when the maximum arc of 360° has been reached.

DECREASING THE ARC

Insert the **(A)** end of the Key into the arc set adjustment slot **(M)**. While holding the nozzle turret **(I)** at the right start, turn the Key counter-clockwise. Each full 360° turn of the Key will decrease the arc 90°. Adjust to any arc between 40° and 360°. The Key will stop turning, or there will be a ratcheting noise, when the minimum arc of 40° has been reached.

SPRINKLER INSTALLATION

1. INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush on the same watering zone. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2. INSPECTING THE FILTER

Unscrew the top **(H)** and lift the complete sprinkler assembly **(J)** out of the can **(K)**. The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

3. WINTERIZATION TIPS

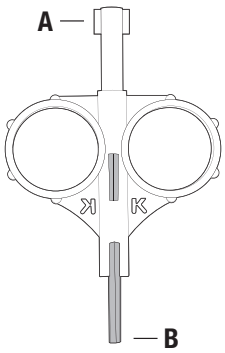
When using an air compressor to remove water from the system please note the following:

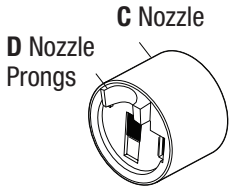
a. Do not exceed 30 PSI.

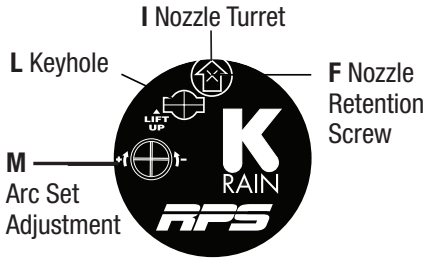
b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

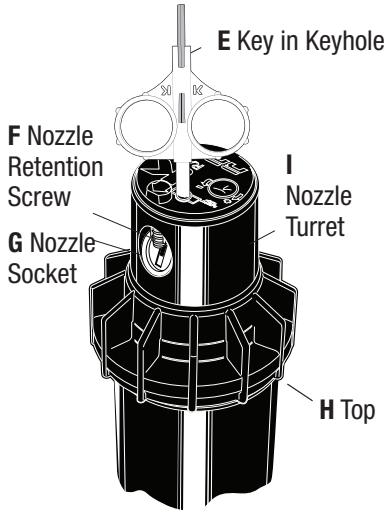
c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.

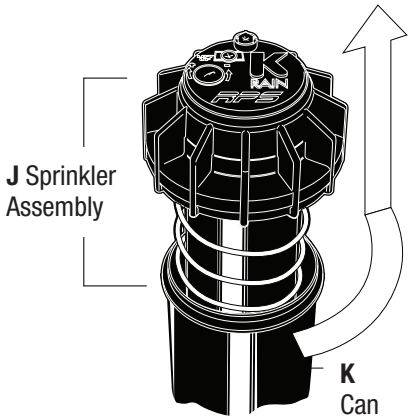
RPS75 Key











Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr		mm/hr	
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
#0.75	30	206	2.1	29	8.8	0.7	2.6	0.16	0.16	0.19	4	5
	40	275	2.8	30	9.1	0.8	3.0	0.18	0.17	0.20	4	5
	50	344	3.4	30	9.1	0.9	3.4	0.20	0.19	0.22	5	6
	60	413	4.1	31	9.4	1.0	3.8	0.23	0.20	0.23	5	6
#1.0	30	206	2.1	30	9.1	0.9	3.4	0.20	0.19	0.22	5	6
	40	275	2.8	31	9.4	1.0	3.8	0.23	0.20	0.23	5	6
	50	344	3.4	31	9.4	1.2	4.5	0.27	0.24	0.28	6	7
	60	413	4.1	32	9.8	1.3	4.9	0.30	0.24	0.28	6	7
#1.5	30	206	2.1	32	9.8	1.2	4.5	0.27	0.23	0.26	5	6
	40	275	2.8	33	10.1	1.4	5.3	0.32	0.25	0.29	6	7
	50	344	3.4	34	10.4	1.6	6.1	0.36	0.27	0.31	7	8
	60	413	4.1	34	10.4	1.8	6.8	0.41	0.30	0.35	7	9
#2.0	30	206	2.1	34	10.4	1.6	6.1	0.36	0.27	0.31	7	8
	40	275	2.8	36	11.0	1.8	6.8	0.41	0.27	0.31	7	8
	50	344	3.4	38	11.6	2.0	7.6	0.45	0.27	0.31	7	8
	60	413	4.1	38	11.6	2.2	8.3	0.50	0.29	0.34	7	9
#3.0 Pre-installed	30	206	2.1	36	11.0	2.0	7.6	0.45	0.30	0.34	7	9
	40	275	2.8	38	11.6	2.4	9.1	0.55	0.32	0.37	8	9
	50	344	3.4	40	12.2	2.7	10.2	0.61	0.32	0.38	8	10
	60	413	4.1	40	12.2	2.9	11.0	0.66	0.35	0.40	9	10
#4.0	30	206	2.1	36	11.0	2.6	9.8	0.59	0.39	0.45	10	11
	40	275	2.8	40	12.2	3.0	11.4	0.68	0.36	0.42	9	11
	50	344	3.4	42	12.8	3.4	12.9	0.77	0.37	0.43	9	11
	60	413	4.1	42	12.8	3.7	14.0	0.84	0.40	0.47	9	12
#6.0	40	275	2.8	38	11.6	4.2	15.9	0.91	0.56	0.65	14	16
	50	344	3.4	43	13.1	4.9	18.5	1.11	0.51	0.59	13	15
	60	413	4.1	46	14.0	5.5	20.8	1.25	0.50	0.58	13	15
	70	482	4.8	47	14.3	6.0	22.7	1.36	0.52	0.60	13	15
#8.0	40	275	2.8	45	13.7	6.0	22.7	1.36	0.57	0.66	14	17
	50	344	3.4	48	14.6	6.8	25.7	1.54	0.57	0.66	14	17
	60	413	4.1	49	14.9	7.6	28.8	1.73	0.61	0.70	15	18
	70	482	4.8	51	15.5	8.2	31.0	1.86	0.61	0.70	15	18

Low Angle Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr		mm/hr	
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
#1.0	30	207	2.1	22	6.7	1.2	4.5	.34	0.48	0.55	12	14
	40	275	2.8	24	7.3	1.7	6.4	.39	0.57	0.66	14	17
	50	344	3.4	26	7.9	1.8	6.8	.41	0.51	0.59	13	15
	60	413	4.1	28	8.5	2.0	7.6	.46	0.49	0.57	13	14
#3.0	30	207	2.1	29	8.8	3.0	11.4	.68	0.69	0.79	18	20
	40	275	2.8	32	9.8	3.1	11.7	.71	0.58	0.67	15	17
	50	344	3.4	35	10.7	3.5	13.2	.80	0.55	0.64	14	16
	60	413	4.1	37	11.3	3.8	14.4	.87	0.53	0.62	13	16
#4.0	30	207	2.1	31	9.4	3.4	12.9	.78	0.68	0.79	17	20
	40	275	2.8	34	10.4	3.9	14.8	.89	0.65	0.75	16	19
	50	344	3.4	37	11.3	4.4	16.7	1.00	0.62	0.71	16	18
	60	413	4.1	38	11.6	4.7	17.8	1.07	0.63	0.72	16	18
#6.0	40	275	2.8	38	11.6	6.5	24.6	1.68	0.87	1.00	22	25
	50	344	3.4	40	12.2	7.3	27.6	1.66	0.88	1.01	22	25
	60	413	4.1	42	12.8	8.0	30.3	1.82	0.87	1.01	22	26
	70	482	4.8	44	13.4	8.3	32.6	1.96	0.86	0.99	22	25

**All precipitation rates calculated for 180° operation.*
For the precipitation rate for a 360° sprinkler, divide by 2.

K-RAIN MANUFACTURING CORP.
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Part Number: 16005103 Rev. 12

RPS 75i with Intelligent Flow Technology®

With Intelligent Flow Technology®

- Patented Intelligent Flow Technology® — Allows distance and water flow to be reduced simultaneously and proportionately – up to 50%.
- Shut off flow from the head
- Rugged RPS Family Construction
- Superior Uniformity, Conserves Water, Fewer Zones Required
- Save Time on Every Project — New or retrofit
- Includes 5 Free Check Valve Assemblies Per Box
- Universal Riser Assembly – Fits into existing Hunter® PGP® and PGP® Ultra cans
- Saves water up to 30%.
- Universal replacement fits into PGP and PGP Ultra cans.
- Superior uniformity — Eliminates dry spots and provides better zone performance while saving water.
- Available in 4", 6" and Shrub — Increased productivity on every job. No need to change nozzles.
- Pressure regulated 45 PSI option available (6" only)

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

Intelligent Flow Technology®

K-Rain Intelligent Flow Technology® allows the reduction of distance while simultaneously and proportionately reducing the flow rate up to 50%! Just simply turn of the Flow Control to either increase or decrease distance and flow.

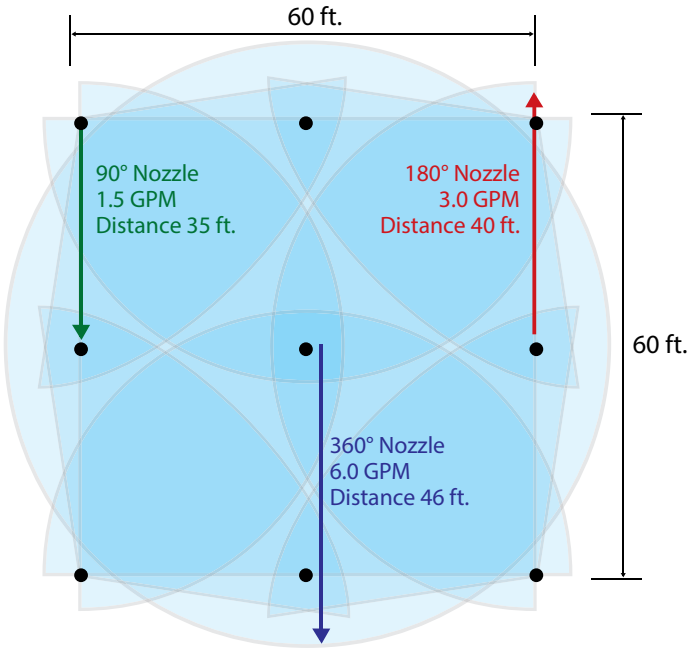
✓ Contractors stay dry ✓ Landscapes are evenly watered ✓ Water is saved

Flow Rate Reduces Simultaneously and

Proportionately with Distance Reduction

BEFORE Intelligent Flow Technology®

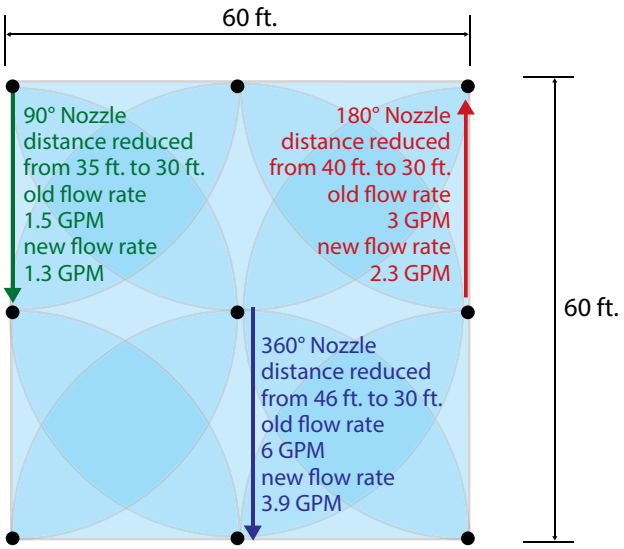
Total flow is 24 GPM and precipitation rate is .64 in/hr



AFTER Intelligent Flow Technology®

Total flow is 18.3 GPM and precipitation rate is .49 in/hr

24% Less Water Used!



Specifications

- Inlet: 3/4" (1,9 cm) female thread NPT
- Arc Adjustment Range: 40° – 360°
- Flow Range: 0.9 – 9.7 GPM (3,4 – 36,7 LPM)
- Pressure Rating: 20 – 70 PSI (1,4 – 4,8 bar)
- Precipitation Rate: .22 – .98 in/hr (6 – 24,9 mm/hr)
- Retracted Height: **4 in**: 7 3/8" (19,7 cm), **6 in**: 9 1/2" (24,1 cm)
- Riser Height: **4 in**: 4 1/4" (10,8 cm), **6 in**: 6 1/4" (15,9 cm)
- Recommended Spacing: 17' – 45' (5,2 – 13,7 m)
- Radius: 26' – 48' (7,9 – 14,6 m)
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 11°
- Nozzles Included: 8 Standard, 4 Low Angle

Intelligent Flow Technology®

- Reduces distance and flow rate simultaneously and proportionately up to 50%
- Provides full on/off control

Models

RPS 75i	RPS™ 75i Rotor
RPS75i-360°	RPS™ 75i Rotor, 360°
RPS75i-SH	RPS™ 75i Rotor, Shrub
RPS75i-360°-SH	RPS™ 75i Rotor, Shrub, 360°
RPS75i-6INCH	6" (15,2 cm) RPS™ 75i Rotor

How to Specify with Options

MODEL	OPTION	
RPS75i	**-SS**	Stainless Steel
RPS75i-360°	**-CV**	Check valve
RPS75i-SH	**-NN**	No nozzle
RPS75i-360°-SH	**-RCW**	Reclaimed water use
RPS75i-6INCH	**-PR**	Pressure Regulation (6"only)

Examples: RPS75i-NN, RPS75-360°-RCW

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

PERFORMANCE DATA

Performance Data

		NO ADJUSTMENT				-30% ADJUSTMENT			
NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	PSI	Feet	GPM	■	▲	Feet	GPM	■	▲
#1.0	30	31	1.1	.22	.25	22	0.8	.31	.36
	40	32	1.4	.26	.30	22	1.0	.38	.43
	50	33	1.6	.28	.33	23	1.1	.40	.47
	60	34	1.8	.30	.35	24	1.3	.43	.49
#1.5	30	33	1.5	.27	.31	23	1.1	.38	.44
	40	35	1.8	.28	.33	25	1.3	.40	.47
	50	35	2	.31	.36	25	1.4	.45	.52
	60	36	2.2	.33	.38	25	1.5	.47	.54
#2.0	30	33	1.8	.32	.37	23	1.3	.45	.53
	40	34	2.1	.35	.40	24	1.5	.50	.58
	50	36	2.4	.36	.41	25	1.7	.51	.59
	60	38	2.7	.36	.42	27	1.9	.51	.59
#2.5 Pre-Installed	30	35	2.2	.35	.40	25	1.5	.49	.57
	40	38	2.6	.35	.40	27	1.8	.50	.57
	50	39	3	.38	.44	27	2.1	.54	.63
	60	40	3.3	.40	.46	28	2.3	.57	.66
#3.0	30	38	2.7	.36	.42	27	1.9	.51	.59
	40	40	3.1	.37	.43	28	2.2	.53	.62
	50	41	3.5	.40	.46	29	2.5	.57	.66
	60	41	3.9	.45	.52	29	2.7	.64	.74
#4.0	30	38	3.5	.47	.54	27	2.5	.67	.77
	40	40	4	.48	.56	28	2.8	.69	.79
	50	43	4.4	.46	.53	30	3.1	.65	.76
	60	43	4.9	.51	.59	30	3.4	.73	.84
#5.0	30	43	4.4	.46	.53	30	3.1	.65	.76
	40	43	5	.52	.60	30	3.5	.74	.86
	50	44	5.5	.55	.63	31	3.9	.78	.90
	60	42	5.9	.64	.74	29	4.1	.92	1.06
#6.0	30	40	5	.60	.70	28	3.5	.86	.99
	40	43	5.9	.61	.71	30	4.1	.88	1.01
	50	43	6.6	.69	.79	30	4.6	.98	1.13
	60	44	7.3	.73	.84	31	5.1	1.04	1.20
#8.0	30	43	6.8	.71	.82	30	4.8	1.01	1.17
	40	47	7.9	.69	.80	33	5.5	.98	1.14
	50	48	8.8	.74	.85	34	6.2	1.05	1.21
	60	47	9.7	.85	.98	33	6.8	1.21	1.40

Performance Data, Metric

		NO ADJUSTMENT				-30% ADJUSTMENT			
NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	BAR	Meter	L/M	■	▲	Meter	L/M	■	▲
#1.0	2,1	9,4	4,2	6	6	7	3,0	8	9
	2,8	9,8	5,3	7	8	7	3,8	10	11
	3,4	10,1	6,1	7	8	7	4,1	10	12
	4,1	10,4	6,8	8	9	7	4,9	11	12
#1.5	2,1	10,1	5,7	7	8	7	4,1	10	11
	2,8	10,7	6,8	7	8	8	4,9	10	12
	3,4	10,7	7,6	8	9	8	5,3	11	13
	4,1	11,0	8,3	8	10	8	5,7	12	14
#2.0	2,1	10,1	6,8	8	9	7	4,9	11	13
	2,8	10,4	7,9	9	10	7	5,7	13	15
	3,4	11,0	9,1	9	10	8	6,4	13	15
	4,1	11,6		9	11	8	7,2	13	15
#2.5 Pre-installed	2,1	10,7	8,3	9	10	8	5,7	12	14
	2,8	11,6	9,8	9	10	8	6,8	13	14
	3,4	11,9	1,4	10	11	8	7,9	14	16
	4,1	12,2	2,5	10	12	9	8,7	14	17
#3.0	2,1	11,6		9	11	8	7,1	13	15
	2,8	12,2		9	11	9	8,3	13	16
	3,4	12,5		10	12	9	9,5	14	17
	4,1	12,5		11	13	9	10,2	16	19
#4.0	2,1	11,6		12	14	8	9,5	17	20
	2,8	12,2		12	14	9	10,6	18	20
	3,4	13,1		12	13	9	11,7	17	19
	4,1	13,1		13	15	9	12,9	19	21
#5.0	2,1	13,1	6,7	12	13	9	11,7	17	19
	2,8	13,1		13	15	9	13,3	19	22
	3,4	13,4		14	16	9	14,8	20	23
	4,1	12,8		16	19	9	15,5	23	27
#6.0	2,1	12,2		15	18	9	13,3	22	25
	2,8	13,1		15	18	9	15,5	22	26
	3,4	13,1		18	20	9	17,4	25	29
	4,1	13,4		19	21	9	19,3	26	30
#8.0	2,1	13,1		18	21	9	18,2	26	30
	2,8	14,3		18	20	10	20,8	25	29
	3,4	14,6		19	22	10	23,5	27	31
	4,1	14,3		22	25	10	25,7	31	35

Low Angle Performance Data

		NO ADJUSTMENT				-30% ADJUSTMENT			
NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP IN/		RADIUS	FLOW	PRECIP IN/HR	
	PSI	Feet	GPM	■	▲	Feet	GPM	■	▲
#1.0	30	26	0.9	.25	.29	18	0.6	0.35	0.41
	40	27	1.0	.26	.31	19	0.7	0.38	0.44
	50	27	1.2	.32	.37	19	0.8	0.45	0.52
	60	26	1.4	.40	.46	18	1.0	0.57	0.66
#1.5	30	28	1.3	.32	.37	20	0.9	0.46	0.53
	40	29	1.5	.34	.40	20	1.1	0.49	0.57
	50	30	1.7	.36	.42	21	1.2	0.52	0.60
	60	31	1.9	.38	.44	22	1.3	0.54	0.63
#2.0	30	29	1.9	.44	.50	20	1.3	0.62	0.72
	40	32	2.2	.41	.48	22	1.5	0.59	0.68
	50	33	2.5	.44	.51	23	1.8	0.63	0.73
	60	34	2.8	.47	.54	24	2.0	0.67	0.77
#3.0	30	32	2.5	.47	.54	22	1.8	0.67	0.78
	40	34	3.0	.50	.58	24	2.1	0.71	0.82
	50	35	3.5	.55	.64	25	2.5	0.79	0.91
	60	36	4.0	.59	.69	25	2.8	0.85	0.98

Low Angle Performance Data, Metric

		NO ADJUSTMENT				-30% ADJUSTMENT			
NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	BAR	Meter	L/M	■	▲	Meter	L/M	■	▲
#1.0	2,1	7,9	3,4	6	7	5	2,3	9	10
	2,8	8,2	3,8	7	8	6	2,7	10	11
	3,4	8,2	4,5	8	9	6	3,0	11	13
	4,1	7,9	5,3	10	12	5	3,8	14	17
#1.5	2,1	8,5	4,9	8	9	6	3,4	12	13
	2,8	8,8	5,7	9	10	6	4,2	12	14
	3,4	9,1	6,4	9	11	6	4,5	13	15
	4,1	9,4	7,2	10	11	7	4,9	14	16
#2.0	2,1	8,8	7,2	11	13	6	4,9	16	18
	2,8	9,8	8,3	10	12	7	5,7	15	17
	3,4	10,1	9,5	11	13	7	6,8	16	19
	4,1	10,4	10,6	12	14	7	7,6	17	20
#3.0	2,1	9,8	9,5	13	14	7	6,8	17	20
	2,8	10,4	11,4	14	15	7	7,9	18	21
	3,4	10,7	13,3	14	16	8	9,5	20	23
	4,1	11,0	15,1	15	18	8	10,6	22	25

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

- Pressure Regulated -
PERFORMANCE DATA

PR Performance Data

NOZZLE		NO ADJUSTMENT				-30% ADJUSTMENT			
		RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	PSI	Feet	GPM	■	▲	Feet	GPM	■	▲
#1.0	30	31	1.1	0.22	0.25	22	0.8	0.31	0.36
	40	32	1.4	0.26	0.30	22	1.0	0.37	0.43
	50	33	1.6	0.28	0.33	23	1.1	0.40	0.47
	60	33	1.6	0.28	0.33	23	1.1	0.40	0.47
#1.5	30	33	1.5	0.27	0.31	23	1.1	0.39	0.44
	40	35	1.8	0.28	0.33	25	1.3	0.40	0.47
	50	35	2.0	0.31	0.36	25	1.4	0.44	0.51
	60	35	2.0	0.31	0.36	25	1.4	0.44	0.51
#2.0	30	33	1.8	0.32	0.37	23	1.3	0.46	0.53
	40	34	2.1	0.35	0.40	24	1.5	0.50	0.57
	50	36	2.4	0.36	0.41	25	1.7	0.51	0.59
	60	36	2.4	0.36	0.41	25	1.7	0.51	0.59
#2.5 Pre-installed	30	35	2.2	0.35	0.40	25	1.5	0.50	0.57
	40	38	2.6	0.35	0.40	27	1.8	0.50	0.57
	50	39	3.0	0.38	0.44	27	2.1	0.54	0.63
	60	39	3.0	0.38	0.46	27	2.1	0.54	0.66
#3.0	30	38	2.7	0.36	0.42	27	1.9	0.51	0.60
	40	40	3.1	0.37	0.43	28	2.2	0.53	0.61
	50	41	3.5	0.40	0.46	29	2.5	0.57	0.66
	60	41	3.5	0.40	0.46	29	2.5	0.57	0.66
#4.0	30	38	3.5	0.47	0.54	27	2.5	0.67	0.77
	40	40	4.0	0.48	0.56	28	2.8	0.69	0.80
	50	43	4.4	0.46	0.53	30	3.1	0.66	0.76
	60	43	4.4	0.46	0.53	30	3.1	0.66	0.76
#5.0	30	43	4.4	0.46	0.53	30	3.1	0.66	0.76
	40	43	5.0	0.52	0.60	30	3.5	0.74	0.86
	50	44	5.5	0.55	0.63	31	3.9	0.79	0.90
	60	44	5.5	0.55	0.63	31	3.9	0.79	0.90
#6.0	30	40	5.0	0.60	0.70	28	3.5	0.86	1.00
	40	43	5.9	0.61	0.71	30	4.1	0.87	1.01
	50	43	6.6	0.69	0.79	30	4.6	0.99	1.13
	60	43	6.6	0.69	0.79	30	4.6	0.99	1.13
#8.0	30	43	6.8	0.71	0.82	30	4.8	1.01	1.17
	40	47	7.9	0.69	0.80	33	5.5	0.99	1.14
	50	48	8.8	0.74	0.85	34	6.2	1.06	1.21
	60	48	8.8	0.74	0.85	34	6.2	1.06	1.21

PR Performance Data, Metric

NOZZLE		NO ADJUSTMENT				-30% ADJUSTMENT			
		RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	BAR	Meter	L/M	■	▲	Meter	L/M	■	▲
#1.0	2.1	9.5	4.2	6	6	6.6	2.9	8	9
	2.8	9.8	5.3	7	8	6.8	3.7	9	11
	3.5	10.1	6.1	7	8	7.0	4.2	10	12
	4.1	10.1	6.1	7	8	7.0	4.2	10	12
#1.5	2.1	10.1	5.7	7	8	7.0	4.0	10	11
	2.8	10.7	6.8	7	8	7.5	4.8	10	12
	3.5	10.7	7.6	8	9	7.5	5.3	11	13
	4.1	10.7	7.6	8	9	7.5	5.3	11	13
#2.0	2.1	10.1	6.8	8	9	7.0	4.8	12	13
	2.8	10.4	8.0	9	10	7.3	5.6	13	15
	3.5	11.0	9.1	9	10	7.7	6.4	13	15
	4.1	11.0	9.1	9	10	7.7	6.4	13	15
#2.5 Pre-installed	2.1	10.7	8.3	9	10	7.5	5.8	13	15
	2.8	11.6	9.9	9	10	8.1	6.9	13	15
	3.5	11.9	11.4	10	11	8.3	8.0	14	16
	4.1	11.9	11.4	10	12	8.3	8.0	14	17
#3.0	2.1	11.6	10.2	9	11	8.1	7.2	13	15
	2.8	12.2	11.7	9	11	8.5	8.2	13	16
	3.5	12.5	13.3	10	12	8.8	9.3	15	17
	4.1	12.5	13.3	10	12	8.8	9.3	15	17
#4.0	2.1	11.6	13.3	12	14	8.1	9.3	17	20
	2.8	12.2	15.2	12	14	8.5	10.6	17	20
	3.5	13.1	16.7	12	13	9.2	11.7	17	19
	4.1	13.1	16.7	12	13	9.2	11.7	17	19
#5.0	2.1	13.1	16.7	12	13	9.2	11.7	17	19
	2.8	13.1	19.0	13	15	9.2	13.3	19	22
	3.5	13.4	20.8	14	16	9.4	14.6	20	23
	4.1	13.4	20.8	14	16	9.4	14.6	20	23
#6.0	2.1	12.2	19.0	15	18	8.5	13.3	22	25
	2.8	13.1	22.4	15	18	9.2	15.7	22	26
	3.5	13.1	25.0	18	20	9.2	17.5	25	29
	4.1	13.1	25.0	18	20	9.2	17.5	25	29
#8.0	2.1	13.1	25.8	18	21	9.2	18.0	26	30
	2.8	14.3	29.9	18	20	10.0	21.0	25	29
	3.5	14.6	33.4	19	22	10.2	23.3	27	31
	4.1	14.6	33.4	19	22	10.2	23.3	27	31

PR Low Angle Performance Data

NOZZLE		NO ADJUSTMENT				-30% ADJUSTMENT			
		RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	PSI	Feet	GPM	■	▲	Feet	GPM	■	▲
#1.0	30	26	0.9	0.25	0.29	18	0.6	0.36	0.41
	40	27	1.0	0.26	0.31	19	0.7	0.37	0.44
	50	27	1.2	0.32	0.37	19	0.8	0.46	0.53
	60	27	1.2	0.32	0.37	19	0.8	0.46	0.53
#1.5	30	28	1.3	0.32	0.37	20	0.9	0.46	0.53
	40	29	1.5	0.34	0.40	20	1.1	0.49	0.57
	50	30	1.7	0.36	0.42	21	1.2	0.51	0.60
	60	30	1.7	0.36	0.42	21	1.2	0.51	0.60
#2.0	30	29	1.9	0.44	0.50	20	1.3	0.63	0.71
	40	32	2.2	0.41	0.48	22	1.5	0.59	0.69
	50	33	2.5	0.44	0.51	23	1.8	0.63	0.73
	60	33	2.5	0.44	0.51	23	1.8	0.63	0.73
#3.0	30	32	2.5	0.47	0.54	22	1.8	0.67	0.77
	40	34	3.0	0.50	0.58	24	2.1	0.71	0.83
	50	35	3.5	0.55	0.64	25	2.5	0.79	0.91
	60	35	3.5	0.55	0.64	25	2.5	0.79	0.91

PR Low Angle Performance Data, Metric

NOZZLE		NO ADJUSTMENT				-30% ADJUSTMENT			
		RADIUS	FLOW	PRECIP IN/HR		RADIUS	FLOW	PRECIP IN/HR	
	BAR	Meter	L/M	■	▲	Meter	L/M	■	▲
#1.0	2.1	7.9	3.4	6	7	5.6	2.4	9	11
	2.8	8.2	3.8	7	8	5.8	2.7	9	11
	3.5	8.2	4.5	8	9	5.8	3.2	12	13
	4.1	8.2	4.5	8	9	5.8	3.2	12	13
#1.5	2.1	8.5	4.9	8	9	6.0	3.4	12	13
	2.8	8.8	5.7	9	10	6.2	4.0	12	15
	3.5	9.2	6.4	9	11	6.4	4.5	13	15
	4.1	9.2	6.4	9	11	6.4	4.5	13	15
#2.0	2.1	8.8	7.2	11	13	6.2	5.0	16	18
	2.8	9.8	8.3	10	12	6.8	5.8	15	17
	3.5	10.1	9.5	11	13	7.0	6.6	16	19
	4.1	10.1	9.5	11	13	7.0	6.6	16	19
#3.0	2.1	9.8	9.5	12	14	6.8	6.6	17	20
	2.8	10.4	11.4	13	15	7.3	8.0	18	21
	3.5	10.7	13.3	14	16	7.5	9.3	20	23
	4.1	10.7	13.3	14	16	7.5	9.3	20	23

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

RPS 75i

Intelligent Flow Technology™

SETTING INSTRUCTIONS

NOTE: The RPS 75I with Intelligent Flow Technology® is factory preset with a 180° arc setting, and includes a pre-installed #2.5 nozzle.

SETTING THE ARC ADJUSTMENT

NOTE: The RPS 75I with Intelligent Flow Technology® has a fixed right start and an adjustable left stop.

1. POSITIONING NOZZLE TURRET TO ITS "RIGHT START"

Place your fingers on the top center of the nozzle turret (I). Rotate the turret counter-clockwise to the left stop to complete any interrupted rotation cycle. Rotate the nozzle turret clockwise to the right start. This is the fixed side of the arc. The nozzle turret must be held in this position for arc adjustments. The right start does not change.

2. ADJUSTING THE RIGHT (FIXED) SIDE OF ARC

If the right side of the arc is not properly aligned, the sprinkler may spray in areas not intended for watering such as driveways or adjacent properties. The right side arc can easily be realigned.

OPTION 1: REPOSITION CAN ON THE FITTING

Turn the sprinkler can (K) and the fitting below it left or right to the desired position. This may require temporary removal of the soil around the sprinkler to allow you to grip the sprinkler can.

OPTION 2: REMOVE INTERNAL RISER ASSEMBLY AND REPOSITION

Unscrew the top (H) counter-clockwise and remove the internal riser assembly (J) from the can. Once removed with nozzle turret (I) at its right start, reposition the riser assembly so that nozzle arrow (O) points to the desired start position. Replace the riser assembly back in the can and screw on the top. At this point you have realigned the right arc stop, and you can adjust the left arc to an appropriate setting.

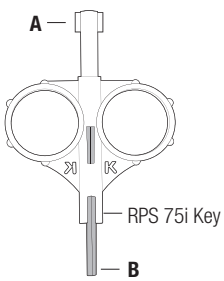
3. ADJUSTING THE LEFT (VARIABLE) SIDE OF THE ARC

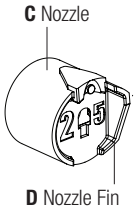
INCREASING THE ARC: Insert the (A) end of the Key into the arc set adjustment slot (M). While holding the nozzle turret (I) at the right start, turn the Key clockwise. Each full 360° turn of the Key will increase the arc 90°. Adjust to any arc between 40° and 360°. The Key will stop turning, or there will be ratcheting noise, when the maximum arc of 360° has been reached.

DECREASING THE ARC: Insert the (A) end of the Key into the arc set adjustment slot (M). While holding the nozzle turret (I) at the right start, turn Key counter-clockwise. Each full 360° turn of the Key will decrease the arc 90°. Adjust to any arc between 40° and 360°. The Key will stop turning, or there will be a ratcheting noise, when the minimum arc of 40° has been reached.

4. OPERATING THE DISTANCE/FLOW CONTROL

To reduce the distance of the flow stream, insert your key (A) into the Distance/Flow slot (N) and turn counter-clockwise. **NOTE:** As the distance is decreased the flow rate will also decrease proportionally. Turning the key counter-clockwise to the stopping point will completely shut the head off at the nozzle. To resume or increase distance and flow again, turn the key clockwise.





CHANGING A NOZZLE

1. REMOVING THE NOZZLE RETENTION SCREW

Use the hex (B) end of the Key to back out the nozzle retention screw (F) so it clears the top of the nozzle. Turn counter-clockwise to remove or clockwise to re-install or tighten down.

2. PULL UP THE RISER

Insert the (A) end of the Key in the keyhole (L) on the top of the nozzle turret (I) and turn the key 1/4 turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket (G). Hold the riser assembly with one hand.

3. REMOVING THE NOZZLE

With nozzle retention screw removed or backed out, the nozzle (C) may be removed by pulling outward on the nozzle fin (D) with a pair of needle-nose pliers.

4. INSTALLING A NOZZLE

Press the desired nozzle (C) into the nozzle socket (G). Make sure the nozzle fin (D) is on the right. Then re-install or screw in the nozzle retention screw (F).

SPRINKLER INSTALLATION

1. INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe.
Bury the sprinkler flush on the same watering zone.

2. INSPECTING THE FILTER

Unscrew the top (H) and lift the complete sprinkler assembly (J) out of the can (K). The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

3. WINTERIZATION TIPS

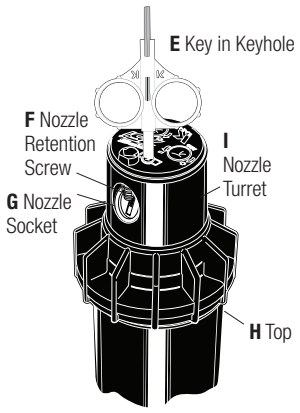
When using an air compressor to remove water from the system please note the following:

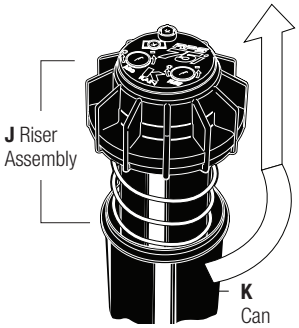
a. Do not exceed 30 PSI.

b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.

Performance data on reverse side.





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FAMCO
هایپرصنعت

Performance Data

NOZZLE	PRESSURE			NO ADJUSTMENT RADIUS		FLOW		PRECIP in/hr		mm/hr		-30% ADJUSTMENT RADIUS		FLOW		PRECIP in/hr		mm/hr		-50% ADJUSTMENT RADIUS		FLOW		PRECIP in/hr		mm/hr	
	PSI	kPa	Bar	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲
#1.0	30	207	2.1	31'	9.4	1.1	4.2	.22	.25	6	6	22'	7	0.8	3.0	.31	.36	8	9	16	5	0.6	2.3	.44	.51	11	13
	40	276	2.8	32'	9.8	1.4	5.3	.26	.30	7	8	22'	7	1.0	3.8	.38	.43	10	11	16	5	0.7	2.7	.53	.61	13	15
	50	345	3.4	33'	10.1	1.6	6.1	.28	.33	7	8	23'	7	1.1	4.1	.40	.47	10	12	17	5	0.8	3.0	.57	.65	14	17
	60	414	4.1	34'	10.4	1.8	6.8	.30	.35	8	9	24'	7	1.3	4.9	.43	.49	11	13	17	5	0.9	3.4	.60	.69	15	18
#1.5	30	207	2.1	33'	10.1	1.5	5.7	.27	.31	7	8	23'	7	1.1	4.1	.38	.44	10	11	17	5	0.8	3.0	.53	.61	13	16
	40	276	2.8	35'	10.7	1.8	6.8	.28	.33	7	8	25'	8	1.3	4.9	.40	.47	10	12	18	5	0.9	3.4	.57	.65	14	17
	50	345	3.4	35'	10.7	2.0	7.6	.31	.36	8	9	25'	8	1.4	5.3	.45	.52	11	13	18	5	1.0	3.8	.63	.73	16	18
	60	414	4.1	36'	11.0	2.2	8.3	.33	.38	8	10	25'	8	1.5	5.7	.47	.54	12	14	18	5	1.1	4.2	.65	.76	17	19
#2.0	30	207	2.1	33'	10.1	1.8	6.8	.32	.37	8	9	23'	7	1.3	4.9	.45	.53	11	13	17	5	0.9	3.4	.64	.74	16	19
	40	276	2.8	34'	10.4	2.1	7.9	.35	.40	9	10	24'	7	1.5	5.7	.50	.58	13	15	17	5	1.1	4.2	.70	.81	18	21
	50	345	3.4	36'	11.0	2.4	9.1	.36	.41	9	10	25'	8	1.7	6.4	.51	.59	13	15	18	5	1.2	4.5	.71	.82	18	21
	60	414	4.1	38'	11.6	2.7	10.2	.36	.42	9	11	27'	8	1.9	7.2	.51	.59	13	15	19	6	1.4	5.3	.72	.83	18	21
#2.5	30	207	2.1	35'	10.7	2.2	8.3	.35	.40	9	10	25'	8	1.5	5.7	.49	.57	12	14	18	5	1.1	4.2	.69	.80	18	20
Pre-	40	276	2.8	38'	11.6	2.6	9.8	.35	.40	9	10	27'	8	1.8	6.8	.50	.57	13	15	19	6	1.3	4.9	.69	.80	18	20
installed	50	345	3.4	39'	11.9	3.0	11.4	.38	.44	10	11	27'	8	2.1	7.9	.54	.63	14	16	20	6	1.5	5.7	.76	.88	19	22
	60	414	4.1	40'	12.2	3.3	12.5	.40	.46	10	12	28'	9	2.3	8.7	.57	.66	14	17	20	6	1.7	6.4	.79	.92	20	23
#3.0	30	207	2.1	38'	11.6	2.7	10.2	.36	.42	9	11	27'	8	1.9	7.1	.51	.59	13	15	19	6	1.4	5.3	.72	.83	18	21
	40	276	2.8	40'	12.2	3.1	11.7	.37	.43	9	11	28'	9	2.2	8.3	.53	.62	13	16	20	6	1.6	6.1	.75	.86	19	22
	50	345	3.4	41'	12.5	3.5	13.3	.40	.46	10	12	29'	9	2.5	9.5	.57	.66	14	17	21	6	1.8	6.8	.80	.93	20	24
	60	414	4.1	41'	12.5	3.9	14.8	.45	.52	11	13	29'	9	2.7	10.2	.64	.74	16	19	21	6	2.0	7.6	.89	1.03	23	26
#4.0	30	207	2.1	38'	11.6	3.5	13.3	.47	.54	12	14	27'	8	2.5	9.5	.67	.77	17	20	19	6	1.8	6.8	.93	1.08	24	27
	40	276	2.8	40'	12.2	4.0	15.1	.48	.56	12	14	28'	9	2.8	10.6	.69	.79	18	20	20	6	2.0	7.6	.96	1.11	24	28
	50	345	3.4	43'	13.1	4.4	16.7	.46	.53	12	13	30'	9	3.1	11.7	.65	.76	17	19	22	7	2.2	8.3	.92	1.06	23	27
	60	414	4.1	43'	13.1	4.9	18.6	.51	.59	13	15	30'	9	3.4	12.9	.73	.84	19	21	22	7	2.5	9.5	1.02	1.18	26	30
#5.0	30	207	2.1	43'	13.1	4.4	16.7	.46	.53	12	13	30'	9	3.1	11.7	.65	.76	17	19	22	7	2.2	8.3	.92	1.06	23	27
	40	276	2.8	43'	13.1	5.0	18.9	.52	.60	13	15	30'	9	3.5	13.3	.74	.86	19	22	22	7	2.5	9.5	1.04	1.20	26	31
	50	345	3.4	44'	13.4	5.5	20.8	.55	.63	14	16	31'	9	3.9	14.8	.78	.90	20	23	22	7	2.8	10.6	1.09	1.26	28	32
	60	414	4.1	42'	12.8	5.9	22.3	.64	.74	16	19	29'	9	4.1	15.5	.92	1.06	23	27	21	6	3.0	11.4	1.29	1.49	28	38
#6.0	30	207	2.1	40'	12.2	5.0	18.9	.60	.70	15	18	28'	9	3.5	13.3	.86	.99	22	25	20	6	2.5	9.5	1.20	1.39	30	35
	40	276	2.8	43'	13.1	5.9	22.3	.61	.71	15	18	30'	9	4.1	15.5	.88	1.01	22	26	22	7	3.0	11.4	1.23	1.42	31	36
	50	345	3.4	43'	13.1	6.6	25.0	.69	.79	18	20	30'	9	4.6	17.4	.98	1.13	25	29	22	7	3.3	12.5	1.37	1.59	35	40
	60	414	4.1	44'	13.4	7.3	27.6	.73	.84	19	21	31'	9	5.1	19.3	1.04	1.20	26	30	22	7	3.7	14.0	1.45	1.68	37	43
#8.0	30	276	2.8	43'	13.1	6.8	25.7	.71	.82	18	21	30'	9	4.8	18.2	1.01	1.17	26	30	22	7	3.4	12.9	1.42	1.64	36	42
	40	345	3.4	47'	14.3	7.9	29.9	.69	.80	18	20	33'	10	5.5	20.8	.98	1.14	25	29	24	7	4.0	15.1	1.38	1.59	35	40
	50	414	4.1	48'	14.6	8.8	33.3	.74	.85	19	22	34'	10	6.2	23.5	1.05	1.21	27	31	24	7	4.4	16.7	1.47	1.70	37	43
	60	483	4.8	47'	14.3	9.7	36.7	.85	.98	22	25	33'	10	6.8	25.7	1.21	1.40	31	35	24	7	4.9	18.6	1.69	1.95	43	50

Low Angle Performance Data

NOZZLE	PRESSURE			NO ADJUSTMENT RADIUS		FLOW		PRECIP in/hr		mm/hr		-30% ADJUSTMENT RADIUS		FLOW		PRECIP in/hr		mm/hr		-50% ADJUSTMENT RADIUS		FLOW		PRECIP in/hr		mm/hr	
	PSI	kPa	Bar	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲
#1.0	30	207	2.1	26'	7.9	0.9	3.4	.25	.29	6	7	18'	5	0.6	2.3	.35	.41	9	10	13	4	0.4	1.5	.50	.57	13	15
	40	276	2.8	27'	8.2	1.0	3.8	.26	.31	7	8	19'	6	0.7	2.7	.38	.44	10	11	14	4	0.5	1.9	.53	.61	13	15
	50	345	3.4	27'	8.2	1.2	4.5	.32	.37	8	9	19'	6	0.8	3.0	.45	.52	11	13	14	4	0.6	2.3	.63	.73	16	19
	60	414	4.1	26'	7.9	1.4	5.3	.40	.46	10	12	18'	5	1.0	3.8	.57	.66	14	17	13	4	0.7	2.7	.80	.92	20	24
#1.5	30	207	2.1	28'	8.5	1.3	4.9	.32	.37	8	9	20'	6	0.9	3.4	.46	.53	12	13	14	4	0.7	2.7	.64	.74	16	19
	40	276	2.8	29'	8.8	1.5	5.7	.34	.40	9	10	20'	6	1.1	4.2	.49	.57	12	14	15	5	0.8	3.0	.69	.79	18	20
	50	345	3.4	30'	9.1	1.7	6.4	.36	.42	9	11	21'	6	1.2	4.5	.52	.60	13	15	15	5	0.9	3.4	.73	.84	19	21
	60	414	4.1	31'	9.4	1.9	7.2	.38	.44	10	11	22'	7	1.3	4.9	.54	.63	14	16	16	5	1.0	3.8	.76	.88	19	22
#2.0	30	207	2.1	29'	8.8	1.9	7.2	.44	.50	11	13	20'	6	1.3	4.9	.62	.72	16	18	15	5	1.0	3.8	.87	1.00	22	26
	40	276	2.8	32'	9.8	2.2	8.3	.41	.48	10	12	22'	7	1.5	5.7	.59	.68	15	17	16	5	1.1	4.2	.83	.96	21	24
	50	345	3.4	33'	10.1	2.5	9.5	.44	.51	11	13	23'	7	1.8	6.8	.63	.73	16	19	17	5	1.3	4.9	.88	1.02	22	26
	60	414	4.1	34'	10.4	2.8	10.6	.47	.54	12	14	24'	7	2.0	7.6	.67	.77	17	20	17	5	1.4	5.3	.93	1.08	24	27
#3.0	30	207	2.1	32'	9.8	2.5	9.5	.47	.54	13	14	22'	7	1.8	6.8	.67	.78	17	20	16	5	1.3	4.9	.94	1.09	24	28
	40	276	2.8	34'	10.4	3.0	11.4	.50	.58	14	15	24'	7	2.1	7.9	.71	.82	18	21	17	5	1.5	5.7	1.00	1.15	25	29
	50	345	3.4	35'	10.7	3.5	13.3	.55	.64	15	16	25'	8	2.5	9.5	.79	.91	20	23	18	5	1.8	6.8	1.10	1.27	28	32
	60	414	4.1	36'	11.0	4.0	15.1	.59	.69	17	17	25'	8	2.8	10.6	.85	.98	22	25	18	5	2.0	7.6	1.19	1.37	30	35

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

RPS® SELECT

Enjoy installation convenience and matched precipitation without hassles.

- Four built-in selectable nozzles – Fastest nozzle change of any rotor. Never have to remove a nozzle.
- Adjustable arc (40°-360°) – all adjustments made from the top – wet or dry, no special tools needed
- Matched precipitation rates – when nozzle setting matched to arc
- Precision-engineered nozzles – for water-saving efficiency
- Top arc set and degree indications – Allows for wet or dry adjustment in seconds.
- Precision engineered nozzles – ensures water-saving efficiency.
- Low-pressure operation
- Universal Riser Assembly – Fits into existing Hunter® PGP® and PGP® Ultra cans

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

RPS® SELECT ROTOR

The K-Rain RPS Select rotary sprinkler is the first gear-driven sprinkler that makes matched precipitation fast and easy, without the need for cumbersome changing of nozzles or sprinkler heads in the field. The RPS Select offers a choice of 4 selectable built-in nozzles. With a twist of a screwdriver, quickly select the correct nozzle flow to match the arc setting of the sprinkler, wet or dry. No nozzle trees to carry or lose. Fewer chances for errors. Using a combination of the four nozzles, it's easy to achieve matched precipitation across all arc settings.

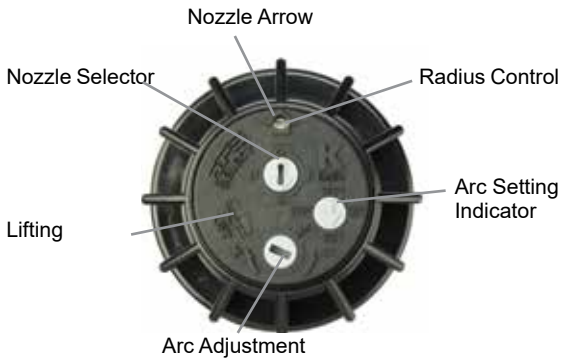
Independent research reveals that most contractors don't change out factory-installed nozzles to match the sprinkler's area of coverage. When the same 3.0 gallon nozzle is used for all arcs, the result is areas that are dramatically over-watered or under-watered. The RPS Select offers factory-nozzle convenience with greater water efficiency.

The four on-board nozzles also make the RPS Select a convenient universal replacement sprinkler for other brands.

The RPS Select offers pre-installed nozzle convenience with greater water efficiency.

Specifications

- Inlet: 3/4" (1,9 cm) Threaded NPT
- Arc Adjustment Range: 40° – 360°
- Flow Range: 1.3 – 6.8 GPM (4,9 – 25,8 LPM)
- Pressure Rating: 30 – 70 PSI (2,1 – 4,8 bar)
- Precipitation Rate: .23 – .71 in/hr (6 – 20 mm/hr) (Depending on Spacing and Nozzle Used)
- Retracted Height: 4 in: 7 3/8" (18,7 cm), 6 in: 9 1/2" (24,1 cm)
- Riser Height: 4 in: 4 3/8" (11,1 cm), 6 in: 6 3/8" (16,2 cm)
- Shrub Height: 7 5/8" (16,8 cm)
- Recommended Spacing: 31' – 44' (9,1 – 13,4 m)
- Radius: 33' – 46' (10 – 14 m)



Models

60003	RPS Select Rotor
60003-SH	RPS Select Rotor, shrub head
60003-6INCH	RPS Select Rotor, 6" riser

Other options add to part number:

-CV	Check Valve

How to Specify:

Model Number	Description
60003	-CV

Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIPITATION			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr ▲		■ mm/hr ▲	
#1.0	30	207	2.1	33'	10.1	1.3	4.9	0.29	.23	.24	6	6
	35	241	2.4	34'	10.4	1.4	5.3	0.32	.23	.27	6	7
	40	276	2.8	37'	10.4	1.5	5.7	0.34	.21	.29	5	7
	45	310	3.1	37'	11.3	1.6	6.1	0.37	.22	.26	6	7
	50	345	3.4	37'	11.3	1.8	6.8	0.41	.25	.29	6	7
#2.0	30	207	2.1	37'	11.3	2.6	9.8	0.59	.37	.42	9	11
	35	241	2.4	38'	11.6	2.8	10.6	0.64	.37	.43	9	11
	40	276	2.8	39'	11.9	3.0	11.4	0.68	.38	.44	10	11
	45	310	3.1	40'	12.2	3.2	12.1	0.73	.39	.44	10	11
	50	345	3.4	40'	12.2	3.6	13.6	0.82	.43	.50	11	13
#3.0	30	207	2.1	37'	11.3	3.8	14.4	0.86	.53	.62	13	16
	35	241	2.4	40'	12.2	4.1	15.5	0.93	.49	.57	12	14
	40	276	2.8	41'	12.2	4.5	17.0	1.02	.52	.60	13	15
	45	310	3.1	41'	12.5	4.7	17.8	1.07	.54	.62	14	16
	50	345	3.4	43'	13.1	4.9	18.5	1.11	.51	.59	13	15
#4.0	30	207	2.1	38'	11.6	5.2	19.6	1.18	.69	.80	18	20
	35	241	2.4	40'	12.2	5.7	21.5	1.29	.69	.79	18	20
	40	276	2.8	44'	13.4	6.0	22.7	1.36	.60	.69	15	18
	45	310	3.1	45'	13.7	6.4	24.2	1.45	.61	.70	15	18
	50	345	3.4	46'	14.0	6.8	25.7	1.54	.62	.71	16	18

K RAIN®

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

av. 04

RPS® Select Gear Driven Sprinkler Setting Instructions

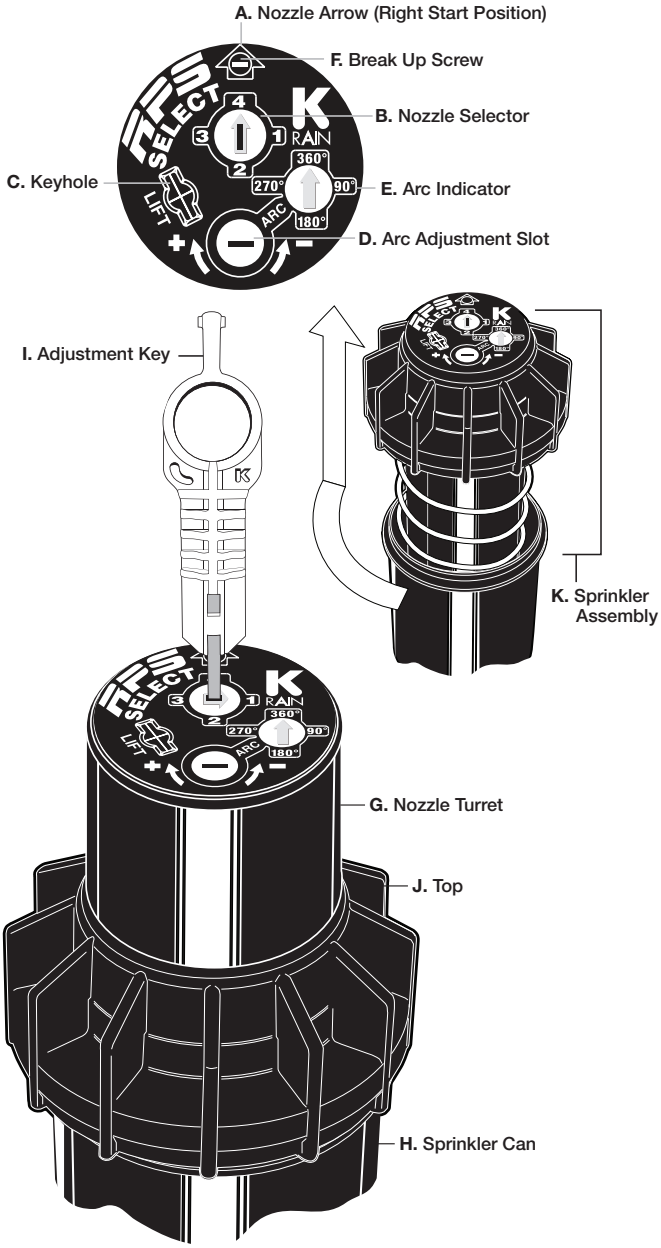
NOTE: The **RPS Select** is factory preset with a 180° arc setting, and includes a pre-installed #2 nozzle.

NOZZLE SELECTION

The RPS Select is designed to conserve water by matching the flow rate to the arc. The following settings are recommended:

ARC	NOZZLE
40° to 135°	Use #1 Nozzle
136° to 225°	Use #2 Nozzle
226° to 315°	Use #3 Nozzle
316° to 360°	Use #4 Nozzle

TO SELECT NOZZLE:
Insert Adjustment Key (I) into Nozzle Selector (B) and turn to desired nozzle.



SETTING THE ARC ADJUSTMENT

NOTE: The **RPS SELECT** Gear Driven Sprinkler has a fixed right start and an adjustable left stop.

1 ▶ POSITIONING NOZZLE TURRET TO ITS "RIGHT START"

Place your fingers on the top center of the nozzle turret (G). Rotate the turret counter-clockwise to the left stop to complete any interrupted rotation cycle. Rotate the nozzle turret clockwise to the right start. This is the fixed side of the arc. The nozzle turret must be held in this position for arc adjustments. The right start does not change.

2 ▶ ADJUSTING THE RIGHT (FIXED) SIDE OF ARC

If the right side of the arc is not properly aligned, the sprinkler may spray areas not intended for watering such as driveways or adjacent properties. The right side arc can easily be realigned.

OPTION 1: REPOSITION CAN ON THE FITTING
Turn the sprinkler can (H) left or right to the desired position. This may require temporary removal of the soil around the sprinkler to allow you to grip the sprinkler can.

OPTION 2: REMOVE INTERNAL RISER ASSEMBLY AND REPOSITION
Unscrew the top (J) counter-clockwise and remove the Sprinkler Assembly (K) from the can. Once removed with nozzle turret (G) at its right start, reposition the sprinkler assembly so that nozzle arrow (A) points to the desired start position. Replace the sprinkler assembly back in the can and screw on the top. At this point you have realigned the right arc start, and you can adjust the left arc to your desired setting.

ADJUSTING THE LEFT (VARIABLE) SIDE OF ARC SETTING THE ARC
Insert Adjustment Key (I) into the arc adjustment slot (D). While holding the nozzle turret (G) at the right start, turn the Key (I) until the Arc Indicator (E) shows the desired radius.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

RPS® Select Gear Driven Sprinkler Setting Instructions

SPRINKLER INSTALLATION

1 ▶ INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush with the ground. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2 ▶ INSPECTING THE FILTER

Unscrew the top (J) and lift complete sprinkler assembly (K) out of can (H). The filter is located on the bottom of sprinkler assembly and can be easily pulled out, cleaned and re-installed.

3 ▶ WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

a. Do not exceed 30 PSI.

b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.

PERFORMANCE DATA

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr		PRECIP mm/hr	
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M^3/H	■	▲	■	▲
#1.0	30	207	2.1	33'	10.1	1.3	4.9	0.29	.23	.24	6	7
	35	241	2.4	34'	10.4	1.4	5.3	0.32	.23	.27	6	7
	40	276	2.8	37'	10.4	1.5	5.7	0.34	.21	.29	6	7
	45	310	3.1	37'	11.3	1.6	6.1	0.37	.22	.26	6	7
	50	345	3.4	37'	11.3	1.8	6.8	0.41	.25	.29	6	7
#2.0	30	207	2.1	37'	11.3	2.6	9.8	0.59	.37	.42	9	11
	35	241	2.4	38'	11.6	2.8	10.6	0.64	.37	.43	9	11
	40	276	2.8	39'	11.9	3.0	11.4	0.68	.38	.44	10	11
	45	310	3.1	40'	12.2	3.2	12.1	0.73	.39	.44	10	11
	50	345	3.4	40'	12.2	3.6	13.6	0.82	.43	.50	11	13
#3.0	30	207	2.1	37'	11.3	3.8	14.4	0.86	.53	.62	14	16
	35	241	2.4	40'	12.2	4.1	15.5	0.93	.49	.57	13	14
	40	276	2.8	41'	12.2	4.5	17.0	1.02	.52	.60	13	15
	45	310	3.1	41'	12.5	4.7	17.8	1.07	.54	.62	14	16
	50	345	3.4	43'	13.1	4.9	18.5	1.11	.51	.59	13	15
#4.0	30	207	2.1	38'	11.6	5.2	19.6	1.18	.69	.80	18	20
	35	241	2.4	40'	12.2	5.7	21.5	1.29	.69	.79	17	20
	40	276	2.8	44'	13.4	6.0	22.7	1.36	.60	.69	15	17
	45	310	3.1	45'	13.7	6.4	24.2	1.45	.61	.70	15	18
	50	345	3.4	46'	14.0	6.8	25.7	1.54	.62	.71	16	18

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

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Part Number: 16020118 Rev. 02

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K RAIN SUPERPRO® with Intelligent Flow Technology®

Adjust distance and water flow simultaneously! Watch video & find out how.

- **Patented Intelligent Flow Technology®** – Allows distance and water flow to be reduced simultaneously and proportionately – up to 50%. Superior uniformity. Saves water up to 30%.
- **Patented Easy Arc Set** – Simplified arc set allows for wet or dry adjustment in seconds.
- **Adjustable or Continuous Rotation** – Provides a full range of adjustment from 40° to continuous 360°.
- **Arc Memory Clutch** – Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turret is forced out of adjustment.
- **Time Proven Patented Reversing Mechanism** – Assures continuous reverse and return…over a 35 year history.
- **Ratcheting Riser** – Allows for easy adjustment of your left starting position with a simple turn of the riser.
- **Rubber Cover** – Seals out dirt and increases product durability.
- **Optional Check Valve** – Prevents low head drainage.
- **Rugged Stainless Steel Spring** – .093 gauge 302 stainless steel spring extends the life of the rotor.

EPA WaterSense

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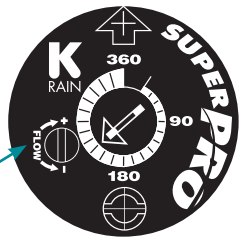
روبروی پالایشگاه نفت پارس، پلاک ۱۲

Easy Arc Setting

Arc Selection 40°
to continuous 360°
Adjust From Left Start



Intelligent Flow Technology®

Water flow can be turned off during installation or adjustment. Riser remains in a popped up position for quick nozzle changes.

Specifications

- Inlet: 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow Range: 1.1 – 11.1 GPM
- Pressure Rating: 20 – 70 PSI
- Precipitation Rate: .21 – 1.17 in/hr (Depending on spacing and nozzle used)
- Retracted Height: 7 1/2"
- Riser Height: 4 1/4"
- Recommended Spacing: 28' – 44'
- Radius: 26' – 46'
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 12°
- Standard and low angle nozzles included

Models

10003 SUPER*PRO*®

Other options add to part number:

-HP	12" High Pop
-SH	Shrub Head
-CV	Check Valve
-NN	No Nozzle
-RCW	Reclaimed Water Use
-OS	On-site wastewater applications with #3 low angle nozzle pre-installed

How to Specify with Options

Model Number	Description
10003	**-RCW**

Performance Data

		NO ADJUSTMENT				-30% ADJUSTMENT			
NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP in/hr ■	PRECIP in/hr ▲	RADIUS Feet	FLOW GPM	PRECIP in/hr ■	PRECIP in/hr ▲
#1.0	30	30	1.2	.21	.25	21	0.8	.30	.36
	40	31	1.3	.23	.27	22	0.9	.33	.39
	50	31	1.5	.27	.31	22	1.1	.39	.44
	60	32	1.8	.32	.37	22	1.3	.46	.53
#1.5	30	36	1.5	.22	.26	25	1.1	.31	.37
	40	37	1.8	.25	.29	26	1.3	.36	.41
	50	37	2.0	.28	.32	26	1.4	.40	.46
	60	38	2.2	.29	.34	27	1.5	.41	.49
#2.0	30	35	1.8	.28	.33	25	1.3	.40	.47
	40	35	2.2	.35	.40	25	1.5	.50	.57
	50	36	2.6	.39	.45	25	1.8	.56	.64
	60	38	2.9	.39	.45	27	2.0	.56	.64
#2.5 Pre-installed	30	37	2.5	.35	.41	26	1.8	.50	.59
	40	38	3.0	.40	.46	27	2.1	.57	.66
	50	40	3.4	.41	.47	28	2.4	.59	.67
	60	40	3.8	.46	.53	28	2.7	.66	.76
#3.0	30	36	3.0	.45	.51	25	2.1	.64	.73
	40	37	3.4	.48	.55	26	2.4	.69	.79
	50	38	4.0	.53	.62	27	2.8	.76	.89
	60	41	4.4	.50	.58	29	3.1	.71	.83
#4.0	30	37	4.0	.56	.65	26	2.8	.80	.93
	40	39	4.5	.57	.66	27	3.2	.81	.94
	50	39	5.2	.66	.76	27	3.6	.94	1.09
	60	40	5.6	.67	.78	28	3.9	.96	1.11
#5.0	30	37	4.8	.68	.78	26	3.4	.97	1.11
	40	38	5.6	.75	.86	27	3.9	1.07	1.23
	50	41	6.5	.74	.86	29	4.6	1.06	1.23
	60	43	7.2	.75	.87	30	5.0	1.07	1.24
#6.0	30	40	6.0	.72	.83	28	4.2	1.03	1.19
	40	41	6.8	.78	.90	29	4.8	1.11	1.29
	50	42	7.5	.82	.95	29	5.3	1.17	1.36
	60	44	8.4	.84	.96	31	5.9	1.20	1.37
#8.0	30	38	7.9	1.05	1.22	27	5.5	1.50	1.74
	40	44	9.2	.92	1.06	31	6.4	1.31	1.51
	50	45	10.4	.99	1.14	32	7.3	1.41	1.63
	60	46	11.1	1.01	1.17	32	7.8	1.44	1.67

Low Angle Performance Data

		NO ADJUSTMENT				-30% ADJUSTMENT			
NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP in/hr ■	PRECIP in/hr ▲	RADIUS Feet	FLOW GPM	PRECIP in/hr ■	PRECIP in/hr ▲
#1.0	30	26	1.1	.31	.36	18	0.8	.44	.51
	40	30	1.3	.28	.32	21	0.9	.40	.46
	50	30	1.4	.30	.35	21	1.0	.43	.50
	60	30	1.6	.34	.40	21	1.1	.49	.57
#1.5	30	27	1.4	.37	.43	19	1.0	.53	.61
	40	28	1.7	.42	.48	20	1.2	.60	.69
	50	31	1.9	.38	.44	22	1.3	.54	.63
	60	30	2.1	.45	.52	21	1.5	.64	.74
#2.0	30	30	2.1	.45	.52	21	1.5	.64	.74
	40	31	2.4	.48	.56	22	1.7	.69	.80
	50	33	2.8	.50	.57	23	2.0	.71	.81
	60	31	3.1	.62	.72	22	2.2	.89	1.03
#3.0	30	32	3.0	.56	.65	22	2.1	.80	.93
	40	34	3.5	.58	.67	24	2.5	.83	.96
	50	35	3.9	.61	.71	25	2.7	.87	1.01
	60	35	4.3	.68	.78	25	3.0	.97	1.11

*All precipitation rates calculated for 180° operation.
For the precipitation rate for a 360° sprinkler, divide by 2.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

Rev. 09

SUPERPRO™

with Intelligent Flow Technology™

GEAR DRIVEN SPRINKLER SETTING INSTRUCTIONS

NOTE: The **Super*Pro* with Intelligent Flow Technology™** is factory preset with a 90° arc setting, and includes a pre-installed #2.5 nozzle.

CHANGING A NOZZLE

1. REMOVING THE NOZZLE RETENTION SCREW

Use your key (**B**) or a small flat blade screwdriver to remove the nozzle retention screw (**M**) by turning counter-clockwise to remove and clockwise to re-install.

2. PULL UP THE RISER

Insert the key (**A**) in the keyhole (**C**) on the top of the nozzle turret (**D**) and turn the key ¼ turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket (**G**). Hold the riser assembly with one hand.

3. REMOVING THE NOZZLE

With the nozzle retention screw (**M**) removed or backed out, use a pair of needle-nose pliers to pull outward on the nozzle fin **(H)** removing the nozzle.

4. INSTALLING A NOZZLE

Press the desired nozzle into the nozzle socket (**G**). make sure the nozzle fin **(H)** is on the right. Then reinstall or tighten down the nozzle retention screw (**M**).
NOTE: The nozzle retention screw is also a break-up screw and used to adjust the distance of the spray.

SETTING THE ARC ADJUSTMENT

1. FINDING THE LEFT START POSITION

Place your finger on the top center of the nozzle turret (**D**). Rotate the turret to the right until it stops and then back to the left until it stops. Notice the position of the nozzle arrow. (**L**) This is the *"Left Start"* position. The sprinkler will begin spraying from this position and rotate clockwise until it reaches the right Adjustable Stop-Return Point.

2. ORIENTING THE LEFT START POSITION

Insert the key (**A**) in the keyhole (**C**) on the top of the nozzle turret (**D**) and turn the key ¼ turn to insure that the key does not slip out of the keyhole when you pull it up. Being careful not to allow the nozzle turret to turn, firmly pull up the entire spring-loaded riser. Hold the lower riser assembly up with one hand. Now turn only the lower riser (**E**) clockwise or counter-clockwise until the nozzle arrow is pointing where you want the sprinkler to begin spraying.

3. CHANGING THE ARC

Insert the key (**B**) or a small flat blade screwdriver into the arc set adjustment slot (**N**). Turn clockwise to increase the arc or counter-clockwise to decrease the arc.
NOTE: The arc set arrow in the center of the nozzle turret rotates to show the current setting. When set at 360°, the SuperPro will rotate continuously in a clockwise direction.

4. OPERATING THE SHUT OFF

To shut off the water flow, insert your key into the flow shut-off slot (**P**) and turn counter-clockwise. During system operation, the riser will remain elevated.
To open flow again, turn key clockwise.

SPRINKLER INSTALLATION

1. INSTALL AND BURY

Thread the sprinkler on the pipe. Bury the sprinkler flush to grade.
NOTE: Do not use pipe dope. Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2. INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly (**J**) out of the housing can (**K**). The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

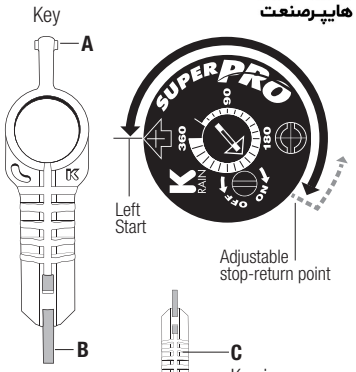
3. WINTERIZATION TIPS

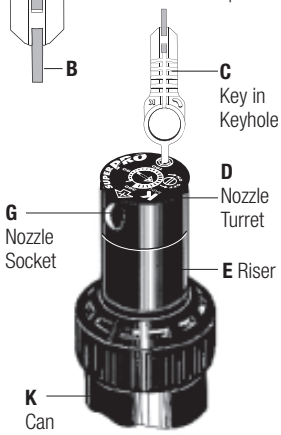
When using an air compressor to remove water from the system please note the following:

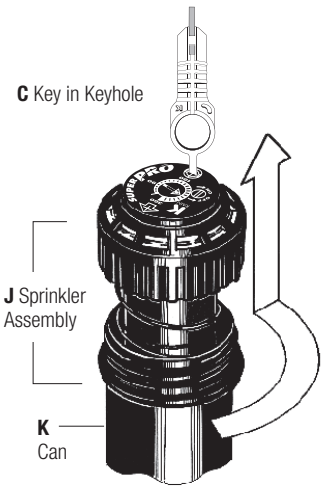
a. Do not exceed 30 PSI.

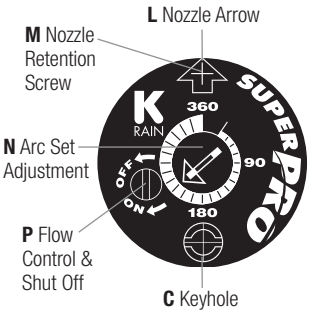
b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.









PERFORMANCE DATA

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIPITATION			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr ▲		■ mm/hr▲	
#1	30	207	2,1	33	10,1	1.2	4,5	0,3	0.21	0.25	5	6
	40	276	2,8	33	10,1	1.3	4,9	0,3	0.23	0.27	6	7
	50	345	3,4	33	10,1	1.5	5,7	0,3	0.27	0.31	7	8
	60	414	4,1	33	10,1	1.8	6,8	0,4	0.32	0.37	8	9
#1.5	30	207	2,1	36	11,0	1.5	5,7	0,3	0.22	0.26	6	6
	40	276	2,8	37	11,3	1.8	6,8	0,4	0.25	0.29	6	7
	50	345	3,4	37	11,3	2.0	7,6	0,5	0.28	0.32	7	8
	60	414	4,1	38	11,6	2.2	8,3	0,5	0.29	0.34	7	9
#2	30	207	2,1	35	10,7	1.8	6,8	0,4	0.28	0.33	7	8
	40	276	2,8	35	10,7	2.2	8,3	0,5	0.35	0.40	9	10
	50	345	3,4	36	11,0	2.6	9,8	0,6	0.39	0.45	10	11
	60	414	4,1	38	11,6	2.9	11,0	0,7	0.39	0.45	10	11
#2.5 Pre-installed	30	207	2,1	37	11,3	2.5	9,5	0,6	0.35	0.41	9	10
	40	276	2,8	38	11,6	3.0	11,4	0,7	0.40	0.46	10	12
	50	345	3,4	40	12,2	3.4	12,9	0,8	0.41	0.47	10	12
	60	414	4,1	40	12,2	3.8	14,4	0,9	0.46	0.53	12	13
#3	30	207	2,1	36	11,0	3.0	11,4	0,7	0.45	0.51	11	13
	40	276	2,8	37	11,3	3.4	12,9	0,8	0.48	0.55	12	14
	50	345	3,4	38	11,6	4.0	15,1	0,9	0.53	0.62	13	16
	60	414	4,1	41	12,5	4.4	16,7	1,0	0.50	0.58	13	15
#4	30	207	2,1	37	11,3	4.0	15,1	0,9	0.56	0.65	14	16
	40	276	2,8	39	11,9	4.5	17,0	1,0	0.57	0.66	14	17
	50	345	3,4	39	11,9	5.2	19,7	1,2	0.66	0.76	17	19
	60	414	4,1	40	12,2	5.6	21,2	1,3	0.67	0.78	17	20
#5	30	207	2,1	37	11,3	4.8	18,2	1,1	0.68	0.78	17	20
	40	276	2,8	38	11,6	5.6	21,2	1,3	0.75	0.86	19	22
	50	345	3,4	41	12,5	6.5	24,6	1,5	0.74	0.86	19	22
	60	414	4,1	43	13,1	7.2	27,3	1,6	0.75	0.87	19	22
#6	30	207	2,1	40	12,2	6.0	22,7	1,4	0.72	0.83	18	21
	40	276	2,8	41	12,5	6.8	25,7	1,5	0.78	0.90	20	23
	50	345	3,4	42	12,8	7.5	28,4	1,7	0.82	0.95	21	24
	60	414	4,1	44	13,4	8.4	31,8	1,9	0.84	0.96	21	24
#8	30	207	2,1	38	11,6	7.9	29,9	1,8	1.05	1.22	27	31
	40	276	2,8	44	13,4	9.2	34,8	2,1	0.92	1.06	23	27
	50	345	3,4	45	13,7	10.4	39,4	2,4	0.99	1.14	25	29
	60	414	4,1	46	14,0	11.1	42,0	2,5	1.01	1.17	26	30

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

LOW ANGLE PERFORMANCE DATA

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIPITATION			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr ▲		■ mm/hr▲	
#1.0	30	207	2,1	26	7,9	1.1	4,2	0,2	0.31	0.36	8	9
	40	276	2,8	30	9,1	1.3	4,9	0,3	0.28	0.32	7	8
	50	345	3,4	30	9,1	1.4	5,3	0,3	0.30	0.35	8	9
	60	414	4,1	30	9,1	1.6	6,1	0,4	0.34	0.40	9	10
#1.5	30	207	2,1	27	8,2	1.4	5,3	0,3	0.37	0.43	9	11
	40	276	2,8	28	8,5	1.7	6,4	0,4	0.42	0.48	11	12
	50	345	3,4	31	9,4	1.9	7,2	0,4	0.38	0.44	10	11
	60	414	4,1	30	9,1	2.1	7,9	0,5	0.45	0.52	11	13
#2	30	207	2,1	30	9,1	2.1	7,9	0,5	0.45	0.52	11	13
	40	276	2,8	31	9,4	2.4	9,1	0,5	0.48	0.56	12	14
	50	345	3,4	33	10,1	2.8	10,6	0,6	0.50	0.57	12	14
	60	414	4,1	31	9,4	3.1	11,7	0,7	0.62	0.72	16	18
#3	30	207	2,1	32	9,8	3.0	11,4	0,7	0.56	0.65	14	16
	40	276	2,8	34	10,4	3.5	13,2	0,8	0.58	0.67	15	17
	50	345	3,4	35	10,7	3.9	14,8	0,9	0.61	0.71	15	18
	60	414	4,1	35	10,7	4.3	16,3	1,0	0.68	0.78	17	20

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SUPERPRO™

con Tecnología de Flujo Inteligente™

INSTRUCCIONES DE AJUSTE DEL ASPERSOR DE TURBINA

OBSERVACIÓN: El **Super*Pro* con Tecnología de Flujo Inteligente™** viene configurado previamente de fábrica con un ajuste del sector a 90º e incluye la preinstalación de una tobera del No. 2.5.

CAMBIO DE LA TOBERA

1. CÓMO QUITAR EL TORNILLO DE SUJECIÓN

Utilice la llave (**B**) o un destornillador pequeño de punta plana para retirar el tornillo de sujeción de la tobera (**M**), girándolo en el sentido contrario al de las agujas del reloj para quitarlo y en el sentido de las agujas del reloj para volverlo a colocar.

2. ELEVACIÓN DEL VÁSTAGO

Inserte la llave (**A**) en el orificio (**C**) situado en la parte superior de la cabeza giratoria (**D**) y gire la llave ¼ de vuelta para asegurarse de que la llave no se sale del orificio cuando lo levante. Tire hacia arriba y con fuerza del vástago para vencer la resistencia del muelle, y así acceder al hueco de la tobera (**G**). Sujete el vástago con una mano cuando esté arriba.

3. REMOVER LA BOQUILLA

Con el tornillo **(M)** que retiene la boquilla removido o retraido, usar una pinza de punta larga, tirar hacia afuera agarrando la aleta **(H)** de la boquilla para remover la boquilla.

4. INSTALANDO UNA BOQUILLA

Presione la boquilla deseada dentro del hueco para boquillas **(G)**, asegurarse que la aleta de la boquilla este en el lado derecho. Re-instale o atornille hacia abajo el tornillo de retención **(M)**.

DETERMINACIÓN DEL AJUSTE DEL SECTOR

1. CÓMO ENCONTRAR LA POSICIÓN DE ARRANQUE A LA IZQUIERDA

Ponga el dedo en la parte superior central de la cabeza giratoria (**D**). Gire la cabeza hacia la derecha hasta que se pare y a continuación de nuevo hacia la izquierda hasta que se pare. Observe la posición de la flecha de la tobera. (**L**) Esta es la posición de *"Arranque a la izquierda"*. El aspersor empezará a pulverizar desde esta posición y a girar en el sentido de las agujas del reloj hasta que llegue a Punto ajustable derecho de Parada-Retorno.

2. CÓMO ORIENTAR LA POSICIÓN DE ARRANQUE A LA IZQUIERDA

Inserte la llave (**A**) en el orificio (**C**) situado en la parte superior de la cabeza giratoria (**D**) y gire la llave ¼ de vuelta para asegurarse de que la llave no se sale del ojo cuando la levante. Con cuidado de no dejar que gire la cabeza de la tobera, tire con firmeza del vástago accionado por resorte. Sujete el ensamblaje del vástago inferior con una mano. A continuación gire únicamente el vástago inferior (**E**) en el sentido de las agujas del reloj o contrario a estas hasta que la flecha de la tobera apunte al lugar donde usted desea empezar a regar.

3. CAMBIO DEL SECTOR

Inserte la llave (**B**) en la ranura de ajuste del sector (**N**). Gírela en el sentido de las agujas del reloj para aumentar el sector o en sentido contrario a las agujas del reloj para reducir el sector. **OBSERVACIÓN:** La flecha de ajuste del sector situada en el centro de la cabeza de la tobera gira para indicar el ajuste actual. Cuando Esté Ajustade a 360º, el SuperPro Girará Continuamente en la Dirección de las Agujas del Reloj.

4. MANEJO DEL CIERRE

Para cerrar el caudal de agua, inserte la llave en la ranura de cierre (shut off) (**P**) y gírela en el sentido contrario al de las agujas del reloj. Durante el funcionamiento del sistema, el vástago permanecerá elevado. Para abrir de nuevo el caudal, gire la llave en el sentido de las agujas del reloj.

INSTALACIÓN DE LOS ASPERSORES

1. COLOCACION DE LOS ASPERSORES EN EL TERRENO

No utilice TEFLÓN en la rosca. Enrosque el aspersor a la tubería. Entierre el aspersor al nivel de la superficie. **OBSERVACIÓN:** Los aspersores de turbina y los difusores emergentes no deben ser instalados en el mismo sector de riego.

2. INSPECCIÓN DEL FILTRO

Desenrosque la tapa del aspersor y saque todo el ensamblaje (**J**) del aspersor de su carcasa (**K**). El filtro está situado en la parte inferior del ensamblaje del aspersor y se puede sacar, limpiar y volver a instalar fácilmente.

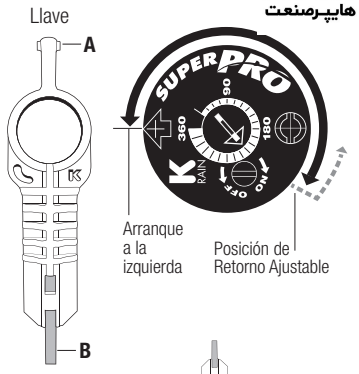
3. CONSEJOS DE CARA AL INVIERNO

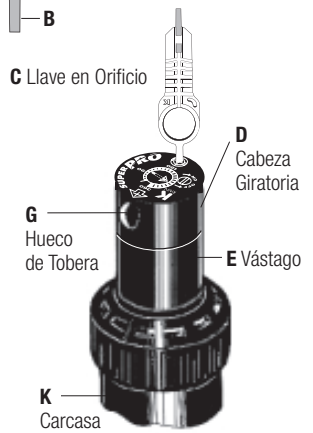
Es aconsejable utilizar un compresor de aire para eliminar el agua del sistema de tuberías y aspersores, a fin de evitar los daños por heladas. Si lo hace tenga en cuenta lo siguiente:

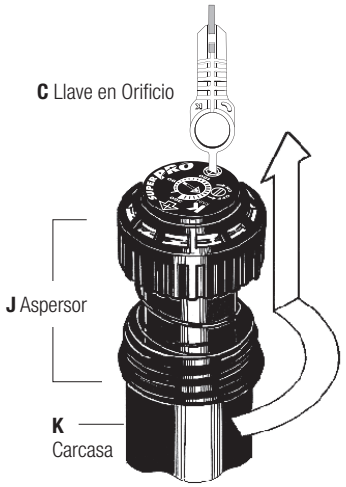
a. No exceda la presión de 30 PSI (1 Atm (1 Kg/cm²)).

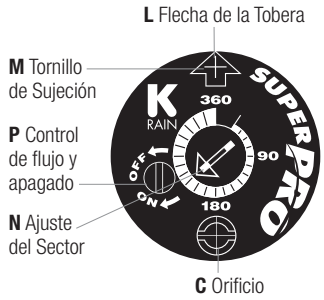
b. Introduzca siempre aire en el sistema de forma gradual para evitar aumentos repentinos de la presión. Una salida repentina de aire comprimido al aspersor puede causar daños.

c. Cada una de las zonas deberá funcionar con aire comprimido no más de 1 minuto. Los aspersores giran entre 10 y 12 veces más rápido con aire que con agua. Un giro excesivo de los aspersores de turbina con aire puede causar daños a los componentes internos.









RENDIMIENTO DE LAS TOBERAS ESTÁNDAR

BOQUILLAS	PRESIÓN			RADIO		CAUDAL			PLUV.			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr	▲	■ mm/hr	▲
#1	30	207	2,1	33	10,1	1.2	4,5	0,3	0.21	0.25	5	6
	40	276	2,8	33	10,1	1.3	4,9	0,3	0.23	0.27	6	7
	50	345	3,4	33	10,1	1.5	5,7	0,3	0.27	0.31	7	8
	60	414	4,1	33	10,1	1.8	6,8	0,4	0.32	0.37	8	9
#1.5	30	207	2,1	36	11,0	1.5	5,7	0,3	0.22	0.26	6	6
	40	276	2,8	37	11,3	1.8	6,8	0,4	0.25	0.29	6	7
	50	345	3,4	37	11,3	2.0	7,6	0,5	0.28	0.32	7	8
	60	414	4,1	38	11,6	2.2	8,3	0,5	0.29	0.34	7	9
#2	30	207	2,1	35	10,7	1.8	6,8	0,4	0.28	0.33	7	8
	40	276	2,8	35	10,7	2.2	8,3	0,5	0.35	0.40	9	10
	50	345	3,4	36	11,0	2.6	9,8	0,6	0.39	0.45	10	11
	60	414	4,1	38	11,6	2.9	11,0	0,7	0.39	0.45	10	11
#2.5	30	207	2,1	37	11,3	2.5	9,5	0,6	0.35	0.41	9	10
Instalado-previamente	40	276	2,8	38	11,6	3.0	11,4	0,7	0.40	0.46	10	12
	50	345	3,4	40	12,2	3.4	12,9	0,8	0.41	0.47	10	12
	60	414	4,1	40	12,2	3.8	14,4	0,9	0.46	0.53	12	13
#3	30	207	2,1	36	11,0	3.0	11,4	0,7	0.45	0.51	11	13
	40	276	2,8	37	11,3	3.4	12,9	0,8	0.48	0.55	12	14
	50	345	3,4	38	11,6	4.0	15,1	0,9	0.53	0.62	13	16
	60	414	4,1	41	12,5	4.4	16,7	1,0	0.50	0.58	13	15
#4	30	207	2,1	37	11,3	4.0	15,1	0,9	0.56	0.65	14	16
	40	276	2,8	39	11,9	4.5	17,0	1,0	0.57	0.66	14	17
	50	345	3,4	39	11,9	5.2	19,7	1,2	0.66	0.76	17	19
	60	414	4,1	40	12,2	5.6	21,2	1,3	0.67	0.78	17	20
#5	30	207	2,1	37	11,3	4.8	18,2	1,1	0.68	0.78	17	20
	40	276	2,8	38	11,6	5.6	21,2	1,3	0.75	0.86	19	22
	50	345	3,4	41	12,5	6.5	24,6	1,5	0.74	0.86	19	22
	60	414	4,1	43	13,1	7.2	27,3	1,6	0.75	0.87	19	22
#6	30	207	2,1	40	12,2	6.0	22,7	1,4	0.72	0.83	18	21
	40	276	2,8	41	12,5	6.8	25,7	1,5	0.78	0.90	20	23
	50	345	3,4	42	12,8	7.5	28,4	1,7	0.82	0.95	21	24
	60	414	4,1	44	13,4	8.4	31,8	1,9	0.84	0.96	21	24
#8	30	207	2,1	38	11,6	7.9	29,9	1,8	1.05	1.22	27	31
	40	276	2,8	44	13,4	9.2	34,8	2,1	0.92	1.06	23	27
	50	345	3,4	45	13,7	10.4	39,4	2,4	0.99	1.14	25	29
	60	414	4,1	46	14,0	11.1	42,0	2,5	1.01	1.17	26	30

Datos representan los resultados de las pruebas realizadas en un ambiente con cero viento.

Ajuste para las condiciones locales. El radio se puede reducir usando el tornillo que sujeta la boquilla.

DATOS BOQUILLAS ANGULO BAJO

BOQUILLAS	PRESIÓN			RADIO		CAUDAL			PLUV.			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■ in/hr	▲	■ mm/hr	▲
#1.0	30	207	2,1	26	7,9	1.1	4,2	0,2	0.31	0.36	8	9
	40	276	2,8	30	9,1	1.3	4,9	0,3	0.28	0.32	7	8
	50	345	3,4	30	9,1	1.4	5,3	0,3	0.30	0.35	8	9
	60	414	4,1	30	9,1	1.6	6,1	0,4	0.34	0.40	9	10
#1.5	30	207	2,1	27	8,2	1.4	5,3	0,3	0.37	0.43	9	11
	40	276	2,8	28	8,5	1.7	6,4	0,4	0.42	0.48	11	12
	50	345	3,4	31	9,4	1.9	7,2	0,4	0.38	0.44	10	11
	60	414	4,1	30	9,1	2.1	7,9	0,5	0.45	0.52	11	13
#2	30	207	2,1	30	9,1	2.1	7,9	0,5	0.45	0.52	11	13
	40	276	2,8	31	9,4	2.4	9,1	0,5	0.48	0.56	12	14
	50	345	3,4	33	10,1	2.8	10,6	0,6	0.50	0.57	12	14
	60	414	4,1	31	9,4	3.1	11,7	0,7	0.62	0.72	16	18
#3	30	207	2,1	32	9,8	3.0	11,4	0,7	0.56	0.65	14	16
	40	276	2,8	34	10,4	3.5	13,2	0,8	0.58	0.67	15	17
	50	345	3,4	35	10,7	3.9	14,8	0,9	0.61	0.71	15	18
	60	414	4,1	35	10,7	4.3	16,3	1,0	0.68	0.78	17	20

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

ProSport™ Gear Driven Sprinkler Setting Instructions

NOTE: The ***ProSport*** is factory preset with a 180° arc setting, and includes a pre-installed #10 nozzle.

CHANGING A NOZZLE

1 ▶ REMOVING THE NOZZLE RETENTION SCREW

Use the (B) end of the key to remove the nozzle retention screw (L) by turning counter-clockwise to remove and clockwise to re-install.

2 ▶ PULL UP THE RISER

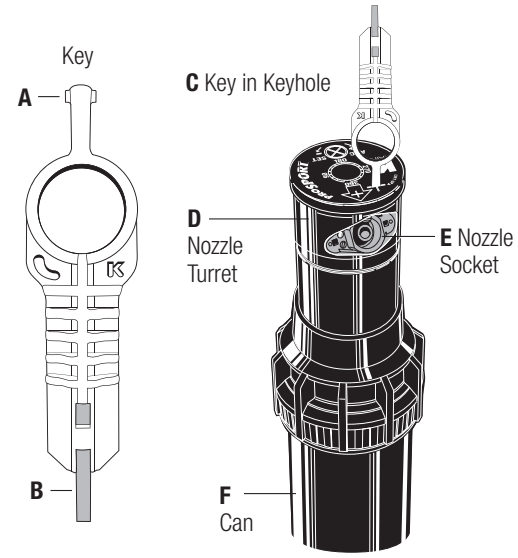
Insert the (A) end of the key in the keyhole (J) on the top of the nozzle turret (D) and turn the key 1/4 turn to insure that the key does not slip out of the keyhole when you pull it up. Firmly pull up the entire spring-loaded riser to access the nozzle socket (E). Hold the riser assembly up with one hand.

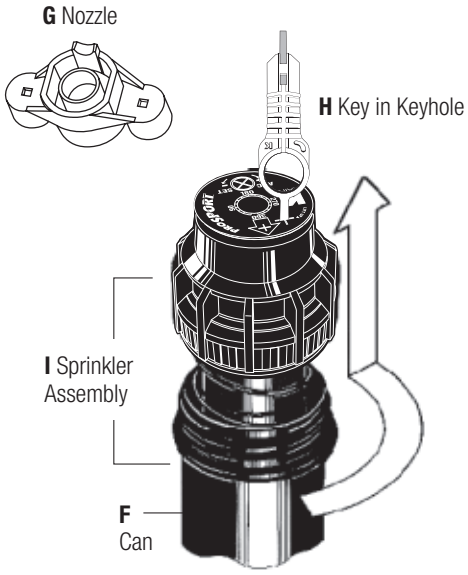
3 ▶ REMOVING THE NOZZLE

Using a pair of needle-nose pliers, grasp the nozzle on the side of the outer ring and pull the nozzle out.

4 ▶ INSTALLING A NOZZLE

Press desired nozzle into the nozzle socket. Make sure the nozzle number is visible and the nozzle "prongs" are up. Then, re-install the nozzle retention screw.
NOTE: The nozzle retention screw is also a break-up screw and used to adjust the distance of the spray.





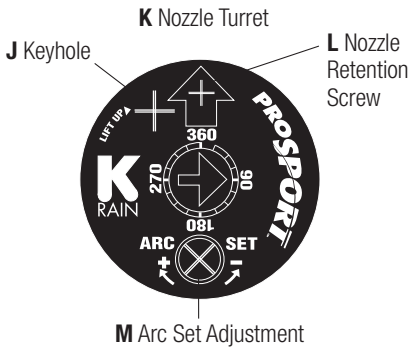
SETTING THE ARC ADJUSTMENT

1 ▶ FINDING THE LEFT START POSITION

Place your fingers on the top center of the nozzle turret. Rotate the turret to the right until it stops and then back to the left until it stops. Notice the position of the nozzle arrow. This is the "Left Start" position. The sprinkler will begin spraying from this position and rotate clockwise until it reaches the right Adjustable Stop-Return Point.

2 ▶ ORIENTING THE LEFT START POSITION

Insert the (A) end of the key in the keyhole (J) on the top of the nozzle turret (D) and turn the key 1/4 turn to insure that the key does not slip out of the keyhole when you pull it up. Being careful not to allow the nozzle turret to turn, firmly pull up the entire spring-loaded riser. Hold the lower riser assembly up with one hand. Now turn only the lower riser clockwise or counter-clockwise until the nozzle arrow is pointing where you want the sprinkler to begin spraying.



3 ▶ CHANGING THE ARC

Insert end of the key (B) into Arc Set Adjustment slot (M). Turn clockwise to increase the arc or counter-clockwise to decrease the arc. **NOTE:** The arc set arrow in the center of the nozzle turret rotates to show the current setting.

WHEN SET AT 360°, THE *PROSPORT* WILL ROTATE CONTINUOUSLY IN A CLOCKWISE DIRECTION.

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

ProSport™ Gear Driven Sprinkler Setting Instructions

SPRINKLER INSTALLATION

1 ▶ INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2 ▶ INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly (I) out of the housing can. The filter is located on the bottom of the sprinkler assembly and can easily be pulled out, cleaned and re-installed.

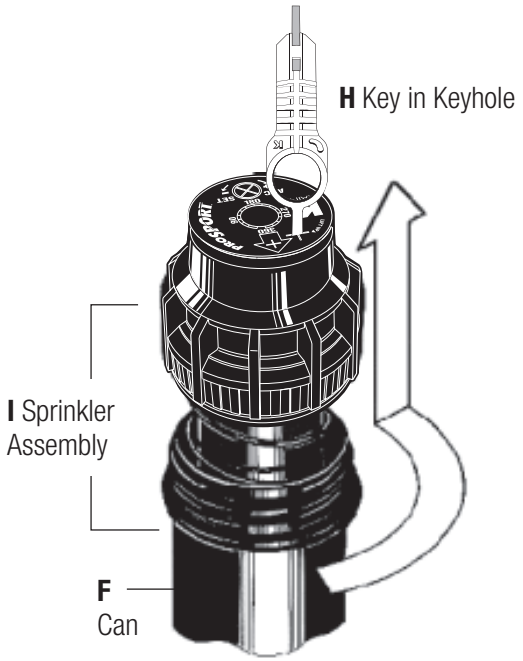
3 ▶ WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

a. Do not exceed 30 PSI.

b. Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.

c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



PERFORMANCE DATA - MODEL 14003

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr / mm/hr			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
#5 White	40	276	2.8	45'	13.7	5.1	19.3	1.2	0.48	0.58	12	14
	50	345	3.5	47'	14.3	5.9	22.3	1.3	0.51	0.62	13	15
	60	414	4.1	47'	14.3	6.5	24.6	1.5	0.57	0.68	14	17
	70	483	4.8	49'	14.9	7.1	26.9	1.6	0.57	0.68	15	17
#10 Green Pre-installed	50	345	3.5	53'	16.2	10.6	40.1	2.4	0.73	0.87	18	21
	60	414	4.1	53'	15.9	11.8	44.7	2.7	0.81	0.97	21	24
	70	483	4.8	53'	16.2	12.6	47.7	2.9	0.86	1.04	22	25
	80	552	5.5	55'	16.8	13.5	51.1	3.1	0.86	1.03	22	25
#15 Gray	50	345	3.5	57'	17.4	13.0	49.2	3.0	0.77	0.92	19	23
	60	414	4.1	59'	18.0	14.2	53.8	3.2	0.79	0.94	20	23
	70	483	4.8	59'	18.0	15.4	58.3	3.5	0.85	1.02	22	25
	80	552	5.5	63'	19.2	16.5	62.5	3.8	0.80	0.96	20	23
#20 Brown	60	414	4.1	65'	19.8	18.9	71.5	4.3	0.86	1.03	22	25
	70	483	4.8	67'	20.4	20.5	77.6	4.7	0.88	1.06	22	26
	80	552	5.5	69'	21.0	21.9	82.9	5.0	0.89	1.06	23	26
	90	621	6.2	71'	21.6	23.2	87.8	5.3	0.89	1.06	23	26
25 Blue	60	414	4.1	67'	20.4	22.8	86.3	5.2	0.98	1.17	25	29
	70	483	4.8	71'	21.6	24.8	93.9	5.6	0.95	1.14	24	28
	80	552	5.5	75'	22.9	26.5	100.3	6.0	0.91	1.09	23	27
	90	621	6.2	77'	23.5	26.8	101.4	6.1	0.87	1.04	22	25
#30 Black	60	414	4.1	67'	20.4	23.7	89.7	5.4	1.02	1.22	26	30
	70	483	4.8	69'	21.0	25.6	96.9	5.8	1.04	1.24	26	30
	80	552	5.5	69'	21.0	27.5	104.1	6.3	1.11	1.33	28	33
	90	621	6.2	71'	21.6	29.2	110.5	6.6	1.12	1.34	28	33

PERFORMANCE DATA - MODEL 14053

NOZZLE	PRESSURE			RADIUS		FLOW RATE			PRECIP in/hr / mm/hr			
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M³/H	■	▲	■	▲
#5 White	40	276	2.8	43'	13.1	5.9	22.3	1.3	0.61	0.71	16	18
	50	345	3.5	44'	13.4	6.2	23.5	1.4	0.62	0.71	16	18
	60	414	4.1	45'	13.7	6.4	24.2	1.5	0.61	0.70	15	18
	70	483	4.8	45'	13.7	7.6	28.8	1.7	0.72	0.83	18	21
#10 Green Pre-installed	50	345	3.5	49'	14.9	10.6	40.1	2.4	0.85	098	22	25
	60	414	4.1	53'	15.8	11.5	44.3	2.7	0.79	0.91	21	25
	70	483	4.8	53'	16.1	13.3	50.3	3.0	0.91	1.05	23	27
	80	552	5.5	54'	16.5	14.0	53.0	3.2	0.92	1.07	23	27
#15	50	345	3.5	52'	15.8	12.4	46.9	2.8	0.88	1.02	23	26
	60	414	4.1	54'	16.5	13.6	55.3	3.3	0.90	1.04	24	28
	70	483	4.8	56'	17.1	14.6	58.7	3.5	0.90	1.03	24	28
	80	552	5.5	58'	17.1	15.9	60.2	3.6	0.91	1.05	23	27
#20 Brown	60	414	4.1	56'	17.1	19.8	66.2	4.0	1.22	1.40	27	31
	70	483	4.8	58'	17.7	21.2	71.5	4.3	1.21	1.40	27	32
	80	552	5.5	59'	18.0	22.8	78.7	4.7	1.26	1.46	29	34
	90	621	6.2	60'	18.3	24.4	82.1	4.9	1.30	1.51	29	34
25 Blue	60	414	4.1	59'	18.0	22.4	84.8	5.1	1.24	1.43	31	36
	70	483	4.8	66'	20.1	25.7	97.3	5.8	1.14	1.31	29	33
	80	552	5.5	67'	20.4	27.8	105.2	6.3	1.19	1.38	30	35
	90	621	6.2	68'	20.7	29.9	113.2	6.8	1.24	1.44	32	37
#30 Black	60	414	4.1	60'	18.3	25.2	95.4	5.7	1.35	1.56	34	39
	70	483	4.8	72'	22.0	28.5	107.9	6.5	1.06	1.22	27	31
	80	552	5.5	73'	22.2	30.8	116.6	7.0	1.11	1.28	28	33
	90	621	6.2	75'	22.9	32.5	123.0	7.4	1.11	1.28	28	33

**All precipitation rates calculated for 180° operation.*
For the precipitation rate for a 360° sprinkler, divide by 2.

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Part Number: 14005103 Rev. 15

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PROSPORT®

Designed specifically for sports turf and commercial applications.

- Revolutionary Patented Easy Arc Set – Simplified arc set allows for wet or dry adjustment in seconds.
- Triple Nozzle Configuration – Ensures even distribution of water.
- 2 in 1 Adjustable or Continuous Rotation – Provides a full range of adjustment from 40° to a continuous full circle.
- Patented Arc Set Degree Markings – Clearly indicates the current watering pattern and simplifies arc set adjustment.
- Arc Memory Clutch – Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turret is forced past stop.
- Time Proven Patented Reversing Mechanism – Assures continuous reverse and return…over a 20 year history.
- Heavy Duty Rubber Cover and Mud Guard – Protects against physical injury and reduces liability, allows sprinkler to be installed below grade.
- Factory Installed Check Valve – Prevents low head drainage.

K RAIN®

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

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ProSport®

The ProSport® comes standard with a unique triple nozzle configuration, consisting of a primary nozzle for long distance and two secondary nozzles for mid-range and short distance coverage. This nozzle design provides superior, close-in water distribution from 43' to 77' (13 to 23,5 m).

Available in a high speed version, ideal for quick wet downs and dust control.

Easy Arc Setting

Arc Selection 40° to
Continuous 360°
Adjust From Left Start

Specifications

- Inlet: 1" (2,5 cm) Threaded NPT Domestic
  1" (2,5 cm) Threaded BSP International
- Arc Adjustment Range: 40° to Continuous 360°
- Flow Range: 5.1 – 32.5 GPM (19,3 – 123 LPM)
- Pressure Rating: 40 – 90 PSI (2,8 – 6,2 bar)
- Precipitation Rate: .48 – 1.3 in/hr (12,2 – 33 mm/hr) (Depending on Spacing & Nozzle Used)
- 4" Retracted Height: 7 1/2" (19 cm)
  4" Riser Height: 4 1/2" (11,4 cm)
- 6" Retracted Height: 12" (30,5 cm)
  6" Riser Height: 6 1/4" (15,9 cm)
- Radius: 43' – 77' (13 – 23,5 m)
- Nozzle Trajectory: 26°

Models

14003	ProSport® Plastic
14003-6INCH	ProSport® 6 inch NEW
14053	ProSport® High Speed Plastic

Other options add to part number:

-SS	Stainless Steel
-BSP	w/BSP Thread
-NN	No Nozzle
-RCW	Reclaimed Water Use

Performance Data - Model 14003

NOZZLE	PRESSURE PSI	kPa	Bars	RADIUS Ft.	M.	FLOW RATE GPM	L/M	M³/H	PRECIPITATION ■ in/hr	▲	■mm/hr	▲
#5	40	276	2.8	45'	13.7	5.1	19.3	1.2	0.48	0.58	12	15
	50	345	3.5	47'	14.3	5.9	22.3	1.3	0.51	0.62	13	16
	60	414	4.1	47'	14.3	6.5	24.6	1.5	0.57	0.68	14	17
	70	483	4.8	49'	14.9	7.1	26.9	1.6	0.57	0.68	14	17
#10 Pre-installed	50	345	3.5	53'	16.2	10.6	40.1	2.4	0.73	0.87	18	22
	60	414	4.1	53'	15.9	11.8	44.7	2.7	0.81	0.97	21	25
	70	483	4.8	53'	16.2	12.6	47.7	2.9	0.86	1.04	22	26
	80	552	5.5	55'	16.8	13.5	51.1	3.1	0.86	1.03	22	26
#15	50	345	3.5	57'	17.4	13.0	49.2	3.0	0.77	0.92	20	23
	60	414	4.1	59'	18.0	14.2	53.8	3.2	0.79	0.94	20	24
	70	483	4.8	59'	18.0	15.4	58.3	3.5	0.85	1.02	22	26
	80	552	5.5	63'	19.2	16.5	62.5	3.8	0.80	0.96	20	24
#20	60	414	4.1	65'	19.8	18.9	71.5	4.3	0.86	1.03	22	26
	70	483	4.8	67'	20.4	20.5	77.6	4.7	0.88	1.06	22	27
	80	552	5.5	69'	21.0	21.9	82.9	5.0	0.89	1.06	23	27
	90	621	6.2	71'	21.6	23.2	87.8	5.3	0.89	1.06	23	27
#25	60	414	4.1	67'	20.4	22.8	86.3	5.2	0.98	1.17	25	30
	70	483	4.8	71'	21.6	24.8	93.9	5.6	0.95	1.14	24	29
	80	552	5.5	75'	22.9	26.5	100.3	6.0	0.91	1.09	23	28
	90	621	6.2	77'	23.5	26.8	101.4	6.1	0.87	1.04	22	26
#30	60	414	4.1	67'	20.4	23.7	89.7	5.4	1.02	1.22	26	31
	70	483	4.8	69'	21.0	25.6	96.9	5.8	1.04	1.24	26	31
	80	552	5.5	69'	21.0	27.5	104.1	6.3	1.11	1.33	28	34
	90	621	6.2	71'	21.6	29.2	110.5	6.6	1.12	1.34	28	34

Performance Data - Model 14053

NOZZLE	PRESSURE PSI	kPa	Bars	RADIUS Ft.	M.	FLOW RATE GPM	L/M	M³/H	PRECIPITATION ■in/hr	▲	■mm/hr	▲
#5	40	276	2.8	43'	13.1	5.9	22.3	1.3	0.61	0.71	15	18
	50	345	3.5	44'	13.4	6.2	23.5	1.4	0.62	0.71	16	18
	60	414	4.1	45'	13.7	6.4	24.2	1.5	0.61	0.70	15	18
	70	483	4.8	45'	13.7	7.6	28.8	1.7	0.72	0.83	18	21
#10 Pre-installed	50	345	3.5	49'	14.9	10.6	40.1	2.4	0.85	098	22	25
	60	414	4.1	53'	15.8	11.5	44.3	2.7	0.79	0.91	20	23
	70	483	4.8	53'	16.1	13.3	50.3	3.0	0.91	1.05	23	27
	80	552	5.5	54'	16.5	14.0	53.0	3.2	0.92	1.07	23	27
#15	50	345	3.5	52'	15.8	12.4	46.9	2.8	0.88	1.02	22	26
	60	414	4.1	54'	16.5	13.6	55.3	3.3	0.90	1.04	23	26
	70	483	4.8	56'	17.1	14.6	58.7	3.5	0.90	1.03	23	26
	80	552	5.5	58'	17.1	15.9	60.2	3.6	0.91	1.05	23	27
#20	60	414	4.1	56'	17.1	19.8	66.2	4.0	1.22	1.40	31	36
	70	483	4.8	58'	17.7	21.2	71.5	4.3	1.21	1.40	31	36
	80	552	5.5	59'	18.0	22.8	78.7	4.7	1.26	1.46	32	37
	90	621	6.2	60'	18.3	24.4	82.1	4.9	1.30	1.51	33	38
#25	60	414	4.1	59'	18.0	22.4	84.8	5.1	1.24	1.43	31	36
	70	483	4.8	66'	20.1	25.7	97.3	5.8	1.14	1.31	29	33
	80	552	5.5	67'	20.4	27.8	105.2	6.3	1.19	1.38	30	35
	90	621	6.2	68'	20.7	29.9	113.2	6.8	1.24	1.44	31	37
#30	60	414	4.1	60'	18.3	25.2	95.4	5.7	1.35	1.56	34	40
	70	483	4.8	72'	22.0	28.5	107.9	6.5	1.06	1.22	27	31
	80	552	5.5	73'	22.2	30.8	116.6	7.0	1.11	1.28	28	33
	90	621	6.2	75'	22.9	32.5	123.0	7.4	1.11	1.28	28	33

**All precipitation rates calculated for 180° operation.*
For the precipitation rate for a 360° sprinkler, divide by 2.

How to Specify:

MODEL	OPTION	
14003	-SS	Stainless steel
14003-6INCH	-BSP	with BSP thread
14053	-NN	No nozzle
	-RCW	Reclaimed water use

Examples: 14003-BSP, 14053-RCW-NN

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