

Setting Instructions

NOTE: The RPS 75i with Intelligent Flow Technology™ is factory preset with a 180° arc setting, and includes a pre-installed #3 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, then 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 sprinkler can (K) left or right to 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 into 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 an appropriate setting.

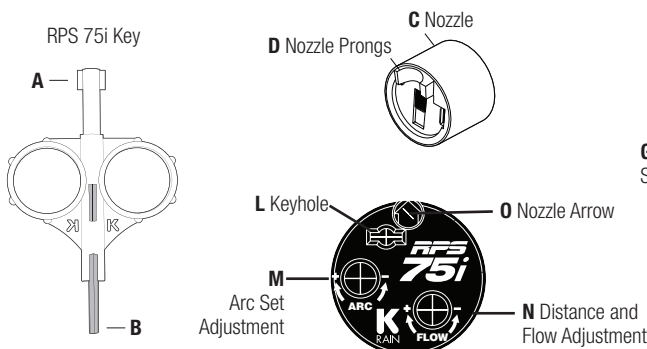
3. ADJUSTING THE LEFT (VARIABLE) SIDE OF THE ARC

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 FLOW SHUT-OFF AND INTELLIGENT FLOW TECHNOLOGY™

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 proportionately. 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 remove the nozzle retention screw (F) 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 the riser with one hand.

3. REMOVING THE NOZZLE

With nozzle retention screw removed, the nozzle (C) 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).

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.

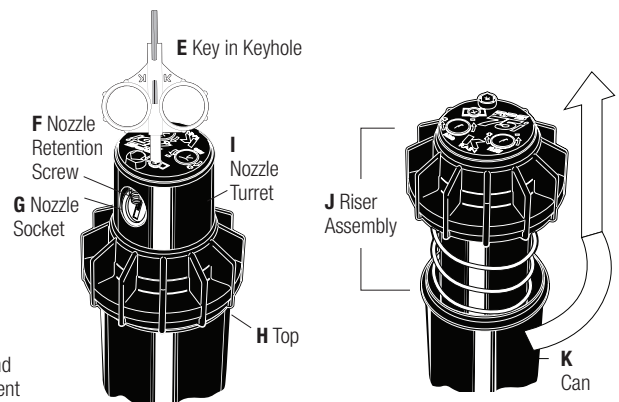
2. INSPECTING THE FILTER

Unscrew the top (H) and lift the complete riser assembly (J) out of the can (K). The filter is located on the bottom of the riser 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:

- Do not exceed 30 PSI.
- Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.
- 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.



RPS 75i Standard Angle Nozzle Performance Using Intelligent Flow Technology™

Nozzle	Pressure PSI	NO ADJUSTMENT				-10% ADJUSTMENT				-20% ADJUSTMENT			
		Radius FT.	Flow GPM	■ Precip In./Hr.	▲ Precip In./Hr.	Radius FT.	Flow GPM	■ Precip In./Hr.	▲ Precip In./Hr.	Radius FT.	Flow GPM	■ Precip In./Hr.	▲ Precip In./Hr.
#75	30	33	0.70	0.124	0.143	30	0.63	0.137	0.159	26	0.56	0.155	0.179
	40	33	0.80	0.141	0.163	30	0.72	0.157	0.181	26	0.64	0.177	0.204
	50	35	0.92	0.145	0.167	32	0.83	0.161	0.185	28	0.74	0.181	0.209
#1	30	36	1.00	0.149	0.172	32	0.90	0.165	0.191	29	0.80	0.186	0.214
	40	37	1.10	0.173	0.200	32	0.99	0.192	0.222	28	0.88	0.216	0.250
	50	37	1.45	0.204	0.235	33	1.31	0.227	0.262	30	1.16	0.255	0.294
#1.5	30	38	1.60	0.213	0.246	34	1.44	0.237	0.274	30	1.28	0.267	0.308
	40	39	1.35	0.190	0.219	33	1.22	0.211	0.244	30	1.08	0.237	0.274
	50	40	1.60	0.202	0.234	35	1.44	0.225	0.260	31	1.28	0.253	0.292
#2	30	41	1.85	0.223	0.257	36	1.67	0.247	0.286	32	1.48	0.278	0.321
	40	41	2.00	0.229	0.264	37	1.80	0.254	0.294	33	1.60	0.286	0.331
	50	36	1.65	0.245	0.283	32	1.49	0.272	0.314	29	1.32	0.306	0.354
#3	30	39	2.15	0.272	0.314	35	1.94	0.302	0.349	31	1.72	0.340	0.393
	40	40	2.45	0.295	0.340	36	2.21	0.328	0.378	32	1.96	0.368	0.425
	50	38	2.00	0.267	0.308	34	1.80	0.296	0.342	30	1.60	0.333	0.385
#4	30	39	2.45	0.327	0.377	34	2.21	0.363	0.419	30	1.96	0.408	0.471
	40	38	2.45	0.327	0.377	34	2.21	0.363	0.419	30	1.96	0.408	0.471
	50	39	2.70	0.342	0.395	35	2.43	0.380	0.438	31	2.16	0.427	0.493
#6	30	42	3.05	0.333	0.384	38	2.75	0.370	0.427	34	2.44	0.416	0.480
	40	39	3.10	0.392	0.453	35	2.79	0.436	0.503	31	2.48	0.490	0.566
	50	41	4.10	0.470	0.542	37	3.69	0.522	0.602	33	3.28	0.587	0.678
#8	30	43	4.50	0.468	0.541	39	4.05	0.521	0.601	34	3.60	0.586	0.676
	40	44	5.40	0.537	0.620	40	4.86	0.597	0.689	35	4.32	0.671	0.775
	50	46	6.00	0.546	0.630	41	5.40	0.606	0.700	37	4.80	0.682	0.788
#8	30	49	6.70	0.537	0.620	44	6.03	0.597	0.689	39	5.36	0.671	0.775
	40	42	5.60	0.611	0.706	38	5.04	0.679	0.784	34	4.48	0.764	0.882
	50	44	6.50	0.646	0.746	40	5.85	0.718	0.829	35	5.20	0.808	0.933
#8	30	47	7.40	0.645	0.745	42	6.66	0.717	0.827	38	5.92	0.806	0.931
	40	51	8.00	0.592	0.684	46	7.20	0.569	0.658	41	6.40	0.740	0.855

Nozzle	Pressure PSI	-30% ADJUSTMENT				-40% ADJUSTMENT				-50% ADJUSTMENT			
		Radius FT.	Flow GPM	■ Precip In./Hr.	▲ Precip In./Hr.	Radius FT.	Flow GPM	■ Precip In./Hr.	▲ Precip In./Hr.	Radius FT.	Flow GPM	■ Precip In./Hr.	▲ Precip In./Hr.
#75	30	23	0.49	0.177	0.204	20	0.4	0.206	0.238	17	0.35	0.247	0.286
	40	23	0.56	0.202	0.233	20	0.5	0.236	0.272	17	0.40	0.283	0.327
	50	25	0.64	0.207	0.238	21	0.6	0.241	0.278	18	0.46	0.289	0.334
#1	30	25	0.70	0.212	0.245	22	0.6	0.248	0.286	18	0.50	0.297	0.343
	40	26	0.77	0.247	0.285	21	0.7	0.288	0.333	18	0.55	0.346	0.399
	50	26	1.02	0.291	0.336	22	0.9	0.340	0.392	19	0.73	0.408	0.471
#1.5	30	27	1.12	0.305	0.352	23	1.0	0.355	0.411	19	0.80	0.427	0.493
	40	27	0.95	0.271	0.313	22	0.8	0.316	0.365	19	0.68	0.380	0.438
	50	28	1.12	0.289	0.334	23	1.0	0.337	0.390	20	0.80	0.405	0.468
#2	30	29	1.30	0.318	0.367	24	1.1	0.371	0.428	20	0.93	0.445	0.514
	40	29	1.40	0.327	0.378	25	1.2	0.382	0.441	21	1.00	0.458	0.529
	50	25	1.16	0.350	0.404	22	1.0	0.408	0.472	18	0.83	0.490	0.566
#3	30	27	1.51	0.389	0.449	23	1.3	0.454	0.524	20	1.08	0.544	0.628
	40	27	1.72	0.421	0.486	24	1.5	0.491	0.567	20	1.23	0.590	0.681
	50	27	1.40	0.381	0.440	23	1.2	0.444	0.513	19	1.00	0.533	0.616
#4	30	27	1.72	0.467	0.539	23	1.5	0.544	0.629	19	1.23	0.653	0.754
	40	27	1.89	0.488	0.564	23	1.6	0.570	0.658	20	1.35	0.683	0.789
	50	29	2.14	0.475	0.549	25	1.8	0.555	0.641	21	1.53	0.666	0.769
#6	30	27	2.17	0.560	0.647	23	1.9	0.654	0.755	20	1.55	0.785	0.906
	40	28	2.52	0.619	0.714	24	2.2	0.722	0.834	20	1.80	0.866	1.000
	50	29	2.87	0.671	0.775	25	2.5	0.783	0.904	21	2.05	0.939	1.084
#8	30	30	3.15	0.669	0.773	26	2.7	0.781	0.902	22	2.25	0.937	1.082
	40	29	3.33	0.777	0.897	25	2.9	0.907	1.047	21	2.38	1.088	1.256
	50	32	4.20	0.780	0.900	28	3.6	0.910	1.051	23	3.00	1.092	1.261
#8	30	34	4.69	0.767	0.886	29	4.0	0.895	1.034	25	3.35	1.074	1.241
	40	29	3.92	0.873	1.008	25	3.4	1.019	1.176	21	2.80	1.222	1.411
	50	31	4.55	0.923	1.066	26	3.9	1.077	1.244	22	3.25	1.293	1.493
#8	30	33	5.18	0.921	1.064	28	4.4	1.075	1.241	24	3.70	1.290	1.489
	40	36	5.60	0.846	0.977	31	4.8	0.987	1.139	26	4.00	1.184	1.367

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



RPS 75i Standard Angle Nozzle Performance Using Intelligent Flow Technology™ Metric

Nozzle	Pressure Bar	NO ADJUSTMENT				-10% ADJUSTMENT				-20% ADJUSTMENT			
		Radius Meters	Flow Rate l/m	■ Precip mm/hr	▲ Precip mm/hr	Radius Meters	Flow Rate l/m	■ Precip mm/hr	▲ Precip mm/hr	Radius Meters	Flow Rate l/m	■ Precip mm/hr	▲ Precip mm/hr
#75	2.1	10.1	2.65	3.1	3.6	9	2.39	3.492	4.032	8	2.12	3.9	4.5
	2.8	10.1	3.03	3.6	4.1	9	2.73	3.991	4.609	8	2.43	4.5	5.2
	3.4	10.7	3.49	3.7	4.2	10	3.14	4.080	4.711	9	2.79	4.6	5.3
	4.1	11.0	3.79	3.8	4.4	10	3.41	4.192	4.841	9	3.03	4.7	5.4
#1	2.1	10.7	4.17	4.4	5.1	10	3.75	4.878	5.633	9	3.34	5.5	6.3
	2.8	11.3	4.93	4.6	5.4	10	4.43	5.159	5.957	9	3.94	5.8	6.7
	3.4	11.3	5.50	5.2	6.0	10	4.95	5.754	6.645	9	4.40	6.5	7.5
	4.1	11.6	6.06	5.4	6.3	10	5.46	6.020	6.951	9	4.85	6.8	7.8
#1.5	2.1	11.3	5.12	4.8	5.6	10	4.60	5.357	6.186	9	4.09	6.0	7.0
	2.8	11.9	6.06	5.1	5.9	11	5.46	5.715	6.599	10	4.85	6.4	7.4
	3.4	12.2	7.01	5.7	6.5	11	6.31	6.282	7.254	10	5.61	7.1	8.2
	4.1	12.5	7.58	5.8	6.7	11	6.82	6.464	7.464	10	6.06	7.3	8.4
#2	2.1	11.0	6.25	6.2	7.2	10	5.63	6.917	7.987	9	5.00	7.8	9.0
	2.8	11.6	7.39	6.6	7.6	10	6.65	7.337	8.472	9	5.91	8.3	9.5
	3.4	11.9	8.15	6.9	8.0	11	7.33	7.679	8.868	10	6.52	8.6	10.0
	4.1	12.2	9.29	7.5	8.6	11	8.36	8.319	9.606	10	7.43	9.4	10.8
#3	2.1	11.6	7.58	6.8	7.8	10	6.82	7.525	8.689	9	6.06	8.5	9.8
	2.8	11.6	9.29	8.3	9.6	10	8.36	9.218	10.644	9	7.43	10.4	12.0
	3.4	11.9	10.23	8.7	10.0	11	9.21	9.644	11.136	10	8.19	10.8	12.5
	4.1	11.9	10.23	8.7	10.0	11	9.21	9.644	11.136	10	8.19	10.8	12.5
#4	2.1	11.9	11.75	10.0	11.5	11	10.57	11.073	12.786	10	9.40	12.5	14.4
	2.8	12.2	13.64	11.0	12.7	11	12.28	12.224	14.115	10	10.92	13.8	15.9
	3.4	12.5	15.54	11.9	13.8	11	13.99	13.251	15.301	10	12.43	14.9	17.2
	4.1	12.5	15.54	11.9	13.8	11	13.99	13.251	15.301	10	12.43	14.9	17.2
#6	2.1	12.5	18.00	13.8	16.0	11	16.20	15.351	17.727	10	14.40	17.3	19.9
	2.8	13.4	20.47	13.6	15.7	12	18.42	15.153	17.498	11	16.37	17.0	19.7
	3.4	14.0	22.74	13.9	16.0	13	20.47	15.405	17.789	11	18.19	17.3	20.0
	4.1	14.9	25.39	13.6	15.8	13	22.85	15.160	17.506	12	20.31	17.1	19.7
#8	2.1	12.8	21.22	15.5	17.9	12	19.10	17.247	19.916	10	16.98	19.4	22.4
	2.8	13.4	24.64	16.4	19.0	12	22.17	18.240	21.063	11	19.71	20.5	23.7
	3.4	14.3	28.05	16.4	18.9	13	25.24	18.199	21.016	11	22.44	20.5	23.6
	4.1	15.5	30.32	15.0	17.4	14	27.29	0.0	16.710	12	24.26	18.8	21.7
Nozzle	Pressure Bar	-30% ADJUSTMENT				-40% ADJUSTMENT				-50% ADJUSTMENT			
		Radius Meters	Flow Rate l/m	■ Precip mm/hr	▲ Precip mm/hr	Radius Meters	Flow Rate l/m	■ Precip mm/hr	▲ Precip mm/hr	Radius Meters	Flow Rate l/m	■ Precip mm/hr	▲ Precip mm/hr
#75	2.1	7	1.86	4.5	5.2	6	1.6	5.2	6.0	5	1.33	6.3	7.3
	2.8	7	2.12	5.1	5.9	6	1.8	6.0	6.9	5	1.52	7.2	8.3
	3.4	7	2.44	5.2	6.1	6	2.1	6.1	7.1	5	1.74	7.3	8.5
	4.1	8	2.65	5.4	6.2	7	2.3	6.3	7.3	5	1.90	7.5	8.7
#1	2.1	7	2.92	6.3	7.2	6	2.5	7.3	8.4	5	2.08	8.8	10.1
	2.8	8	3.45	6.6	7.7	7	3.0	7.7	8.9	6	2.46	9.3	10.7
	3.4	8	3.85	7.4	8.5	7	3.3	8.6	10.0	6	2.75	10.4	12.0
	4.1	8	4.24	7.7	8.9	7	3.6	9.0	10.4	6	3.03	10.8	12.5
#1.5	2.1	8	3.58	6.9	8.0	7	3.1	8.0	9.3	6	2.56	9.6	11.1
	2.8	8	4.24	7.3	8.5	7	3.6	8.6	9.9	6	3.03	10.3	11.9
	3.4	9	4.91	8.1	9.3	7	4.2	9.4	10.9	6	3.51	11.3	13.1
	4.1	9	5.31	8.3	9.6	7	4.5	9.7	11.2	6	3.79	11.6	13.4
#2	2.1	8	4.38	8.9	10.3	7	3.8	10.4	12.0	5	3.13	12.5	14.4
	2.8	8	5.17	9.4	10.9	7	4.4	11.0	12.7	6	3.70	13.2	15.2
	3.4	8	5.70	9.9	11.4	7	4.9	11.5	13.3	6	4.07	13.8	16.0
	4.1	9	6.50	10.7	12.4	7	5.6	12.5	14.4	6	4.64	15.0	17.3
#3	2.1	8	5.31	9.7	11.2	7	4.5	11.3	13.0	6	3.79	13.5	15.6
	2.8	8	6.50	11.9	13.7	7	5.6	13.8	16.0	6	4.64	16.6	19.2
	3.4	8	7.16	12.4	14.3	7	6.1	14.5	16.7	6	5.12	17.4	20.0
	4.1	9	8.09	12.1	13.9	8	6.9	14.1	16.3	6	5.78	16.9	19.5
#4	2.1	8	8.22	14.2	16.4	7	7.0	16.6	19.2	6	5.87	19.9	23.0
	2.8	9	9.55	15.7	18.1	7	8.2	18.3	21.2	6	6.82	22.0	25.4
	3.4	9	10.88	17.0	19.7	7	9.3	19.9	23.0	6	7.77	23.9	27.5
	4.1	9	11.94	17.0	19.6	8	10.2	19.8	22.9	7	8.53	23.8	27.5
#6	2.1	9	12.60	19.7	22.8	7	10.8	23.0	26.6	6	9.00	27.6	31.9
	2.8	9	14.33	19.5	22.5	8	12.3	22.7	26.2	7	10.23	27.3	31.5
	3.4	10	15.92	19.8	22.9	8	13.6	23.1	26.7	7	11.37	27.7	32.0
	4.1	10	17.78	19.5	22.5	9	15.2	22.7	26.3	7	12.70	27.3	31.5
#8	2.1	9	14.86	22.2	25.6	8	12.7	25.9	29.9	6	10.61	31.0	35.8
	2.8	9	17.24	23.5	27.1	8	14.8	27.4	31.6	7	12.32	32.8	37.9
	3.4	10	19.63	23.4	27.0	9	16.8	27.3	31.5	7	14.02	32.8	37.8
	4.1	11	21.22	21.5	24.8	9	18.2	25.1	28.9	8	15.16	30.1	34.7

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

