Arc Adjustments

All I-25 and I-31 adjustable arc sprinklers are preset at approximately 180˚. Sprinklers may be adjusted with water on or off. It is recommended that initial adjustment be made before installation.

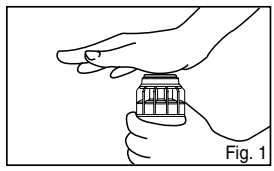


Fig. 1

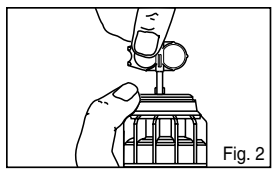


Fig. 2

1. Using the palm of your hand, rotate the nozzle turret counterclockwise to left stop to complete any interrupted rotation cycle (Fig. 1).
2. Rotate the nozzle turret clockwise to right stop. This is the fixed side of the arc. The nozzle turret must be held in this position for all arc adjustments.

To Increase Arc

1. Insert the key end of the Hunter wrench into the adjustment socket (Fig. 2 & Fig. 3).
2. While holding the nozzle turret at the right stop, turn the wrench clockwise. Each 360˚ turn of the wrench increases the arc 45˚.
3. Adjust to any arc between 40˚ and 360˚.
4. Wrench will stop turning, or there will be a ratcheting noise, when the maximum arc (360˚) is reached.

To Decrease Arc

1. Insert the key end of the Hunter wrench into the adjustment socket (Fig. 2 & Fig. 3).
2. While holding the nozzle turret at the right stop, turn the wrench counterclockwise. Each 360˚ turn of the wrench decreases the arc 45˚.
3. Adjust to any arc between 40˚ and 360˚.
4. Wrench will stop turning, or there will be a ratcheting noise, when the minimum arc (40˚) is reached.

Radius Adjustment

Insert the hex end of the Hunter wrench into the nozzle-retainer/range-adjustment screw (Fig. 3). Turn the screw clockwise into the stream of water to decrease the radius, or counterclockwise to increase the radius.

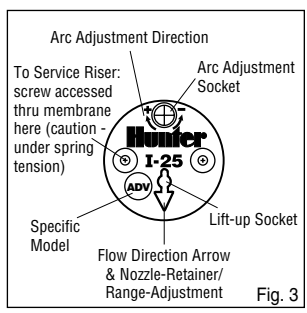


Fig. 3

Precipitation Rate Adjustment

Where excessively wet or dry areas are a problem, the precipitation rate may be adjusted. Simply replace the existing nozzle with a larger one to increase, or a smaller one to decrease the rate of precipitation.

Nozzle Installation

1. Insert the key end of the Hunter wrench into the lifting socket of a pop-up sprinkler and rotate wrench 90˚. Pull the riser up to gain access to the nozzle opening in rotating turret.
2. Using the Hunter wrench, loosen the nozzle-retainer/range-adjustment screw. If a nozzle is already installed in the sprinkler, it may now be removed with pliers by grabbing the tab in the center and pulling out.
3. Slip the desired nozzle into the nozzle socket. Note that the socket is angled up 25˚ (Fig. 4). Make sure that nozzle is fully seated and does not protrude from housing. Tighten the nozzle retainer/range-adjustment screw.

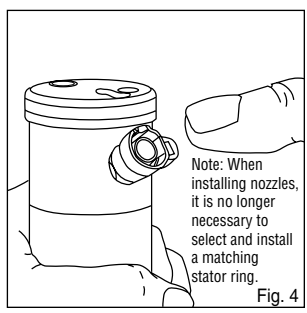
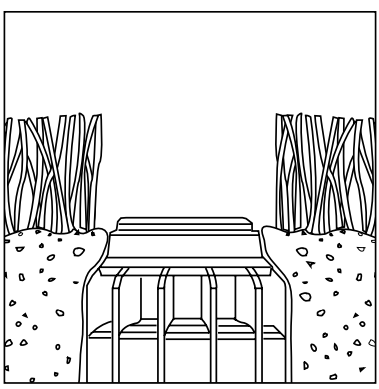
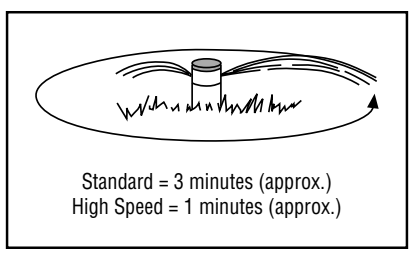


Fig. 4

Typical Installation



Full Circle Rotation Speed



Data represent test results in zero wind. Adjust for local conditions. Radius may be reduced up to 25% with adjustment screw (this may alter the uniformity of the spray pattern).

Performance Charts

I-25 *Plus* Nozzle Performance Data

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
4 Yellow	40	40'	3.8	0.46	0.53
	50	41'	4.3	0.49	0.57
	60	42'	4.7	0.51	0.59
	70	43'	5.1	0.53	0.61
5 White	40	43'	4.4	0.46	0.53
	50	44'	4.8	0.48	0.55
	60	45'	5.3	0.50	0.58
	70	46'	5.6	0.51	0.59
7 Orange*	40	45'	6.6	0.63	0.72
	50	47'	7.0	0.61	0.70
	60	48'	7.5	0.63	0.72
	70	49'	7.9	0.63	0.73
8 Lt. Brown	40	47'	7.7	0.67	0.77
	50	49'	8.3	0.67	0.77
	60	50'	9.2	0.71	0.82
	70	51'	9.9	0.73	0.85
10 Lt. Green*	50	51'	10.1	0.75	0.86
	60	52'	11.1	0.79	0.91
	70	53'	12.1	0.83	0.96
	80	54'	12.9	0.85	0.98
13 Lt. Blue	50	53'	11.2	0.77	0.89
	60	54'	12.3	0.81	0.94
	70	55'	13.3	0.85	0.98
	80	55'	14.3	0.91	1.05
15 Gray*	50	56'	13.4	0.82	0.95
	60	57'	14.3	0.85	0.98
	70	57'	15.2	0.90	1.04
	80	58'	16.4	0.94	1.08
18 Red	50	58'	14.5	0.83	0.96
	60	59'	15.7	0.87	1.00
	70	62'	16.9	0.85	0.98
	80	63'	18.2	0.88	1.02
20 Dk. Brown*	60	62'	17.8	0.89	1.03
	70	63'	19.2	0.93	1.08
	80	64'	20.5	0.96	1.11
	90	65'	21.8	0.99	1.15
23 Dk. Green	60	64'	21.9	1.03	1.19
	70	65'	23.6	1.08	1.24
	80	66'	25.6	1.13	1.31
	90	67'	27.0	1.16	1.34
25 Dk. Blue*	60	66'	23.5	1.04	1.20
	70	68'	25.5	1.06	1.23
	80	69'	28.0	1.13	1.31
	90	70'	29.5	1.16	1.34
28 Black	70	68'	26.9	1.12	1.29
	80	70'	28.7	1.13	1.30
	90	71'	30.6	1.17	1.35
	100	71'	31.5	1.20	1.39

I-31 *Plus* Nozzle Performance Data – Metric

Nozzle	Pressure Bars	Pressure kPa	Radius m	Flow m^3/hr	Flow l/min	Precip mm/hr ■	Precip mm/hr ▲
4 Yellow	2.8	275	12.2	0.86	14.4	12	13
	3.4	344	12.5	0.98	16.3	13	14
	4.1	413	12.8	1.07	17.8	13	15
	4.8	482	13.1	1.16	19.3	13	16
5 White	2.8	275	13.1	1.00	16.7	12	13
	3.4	344	13.4	1.09	18.2	12	14
	4.1	413	13.7	1.20	20.1	13	15
	4.8	482	14.0	1.27	21.2	13	15
7 Orange*	2.8	275	13.7	1.50	25.0	16	18
	3.4	344	14.3	1.59	26.5	15	18
	4.1	413	14.6	1.70	28.4	16	18
	4.8	482	14.9	1.79	29.9	16	19
8 Lt Brown	2.8	275	14.3	1.75	29.1	17	20
	3.4	344	14.9	1.89	31.4	17	20
	4.1	413	15.2	2.09	34.8	18	21
	4.8	482	15.5	2.25	37.5	19	21
10 Lt. Green*	3.4	344	15.5	2.29	38.2	19	22
	4.1	413	15.8	2.52	42.0	20	23
	4.8	482	16.2	2.75	45.8	21	24
	5.5	551	16.5	2.93	48.8	22	25
13 Lt. Blue	3.4	344	16.2	2.54	42.4	19	23
	4.1	413	16.5	2.79	46.6	21	24
	4.8	482	16.8	3.02	50.3	21	25
	5.5	551	16.8	3.25	54.1	23	27
15 Gray*	3.4	344	17.1	3.04	50.7	21	24
	4.1	413	17.4	3.25	54.1	22	25
	4.8	482	17.4	3.45	57.5	23	26
	5.5	551	17.7	3.73	62.1	24	28
18 Red	3.4	344	17.7	3.29	54.9	21	24
	4.1	413	18.0	3.57	59.4	22	25
	4.8	482	18.9	3.84	64.0	21	25
	5.5	551	19.2	4.13	68.9	22	26
20 Dk. Brown*	4.1	413	18.9	4.04	67.4	23	26
	4.8	482	19.2	4.36	72.7	24	27
	5.5	551	19.5	4.66	77.6	24	28
	6.2	620	19.8	4.95	82.5	25	29
23 Dk. Green	4.1	413	19.5	4.97	82.9	26	30
	4.8	482	19.8	5.36	89.3	27	32
	5.5	551	20.1	5.82	96.9	29	33
	6.2	620	20.4	6.13	102.2	29	34
25 Dk. Blue*	4.1	413	20.1	5.34	88.9	26	30
	4.8	482	20.7	5.79	96.5	27	31
	5.5	551	21.0	6.36	106.0	29	33
	6.2	620	21.3	6.70	111.7	29	34
28 Black	4.8	482	20.7	6.11	101.8	28	33
	5.5	551	21.3	6.52	108.6	29	33
	6.2	620	21.6	6.95	115.8	30	34
	6.9	689	21.6	7.16	119.2	31	35

I-25 *Plus* High Speed Nozzle Performance Data

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr ■	Precip in/hr ▲
4 Yellow	40	37'	3.8	0.53	0.62
	50	38'	4.3	0.57	0.66
	60	38'	4.7	0.63	0.72
	70	39'	5.2	0.66	0.76
5 White	40	38'	4.4	0.59	0.68
	50	39'	4.8	0.61	0.70
	60	40'	5.5	0.66	0.76
	70	41'	6.0	0.69	0.79
7 Orange*	40	40'	6.1	0.73	0.85
	50	41'	6.9	0.79	0.91
	60	42'	7.5	0.82	0.95
	70	44'	8.1	0.81	0.93
8 Lt. Brown	40	42'	7.2	0.79	0.91
	50	43'	8.1	0.84	0.97
	60	44'	8.9	0.88	1.02
	70	45'	9.8	0.93	1.08
10 Lt. Green*	50	46'	10.6	0.96	1.11
	60	48'	11.7	0.98	1.13
	70	49'	12.7	1.02	1.18
	80	50'	13.6	1.05	1.21
13 Lt. Blue	50	48'	11.4	0.95	1.10
	60	49'	12.6	1.01	1.17
	70	51'	13.7	1.01	1.17
	80	51'	14.8	1.10	1.26
15 Gray*	50	49'	13.3	1.07	1.23
	60	51'	14.6	1.08	1.25
	70	53'	15.9	1.09	1.26
	80	54'	17.0	1.12	1.30
18 Red	50	50'	14.4	1.11	1.28
	60	53'	15.9	1.09	1.26
	70	55'	17.3	1.10	1.27
	80	57'	18.6	1.10	1.27
20 Dk. Brown*	60	53'	18.5	1.27	1.46
	70	56'	19.9	1.22	1.41
	80	58'	21.5	1.23	1.42
	90	59'	22.7	1.26	1.45
23 Dk. Green	60	56'	21.0	1.29	1.49
	70	58'	22.9	1.31	1.51
	80	60'	24.5	1.31	1.51
	90	61'	26.1	1.35	1.56
25 Dk. Blue*	60	58'	24.2	1.38	1.60
	70	62'	26.2	1.31	1.52
	80	64'	28.3	1.33	1.54
	90	66'	29.9	1.32	1.53
28 Black	70	60'	27.6	1.48	1.70
	80	62'	29.4	1.47	1.70
	90	65'	31.2	1.42	1.64
	100	67'	31.9	1.37	1.58

I-31 *Plus* High Speed Nozzle Performance Data – Metric

Nozzle	Pressure Bars	Pressure kPa	Radius m	Flow m^3/hr	Flow l/min	Precip mm/hr ■	Precip mm/hr ▲
4 Yellow	2.8	275	11.3	0.86	14.4	14	16
	3.4	344	11.6	0.98	16.3	15	17
	4.1	413	11.6	1.07	17.8	16	18
	4.8	482	11.9	1.18	19.7	17	19
5 White	2.8	275	11.6	1.00	16.7	15	17
	3.4	344	11.9	1.09	18.2	15	18
	4.1	413	12.2	1.25	20.8	17	19
	4.8	482	12.5	1.36	22.7	17	20
7 Orange*	2.8	275	12.2	1.39	23.1	19	22
	3.4	344	12.5	1.57	26.1	20	23
	4.1	413	12.8	1.70	28.4	21	24
	4.8	482	13.4	1.84	30.7	20	24
8 Lt Brown	2.8	275	12.8	1.64	27.3	20	23
	3.4	344	13.1	1.84	30.7	21	25
	4.1	413	13.4	2.02	33.7	22	26
	4.8	482	13.7	2.23	37.1	24	27
10 Lt. Green*	3.4	344	14.0	2.41	40.1	24	28
	4.1	413	14.6	2.66	44.3	25	29
	4.8	482	14.9	2.88	48.1	26	30
	5.5	551	15.2	3.09	51.5	27	31
13 Lt. Blue	3.4	344	14.6	2.59	43.2	24	28
	4.1	413	14.9	2.86	47.7	26	30
	4.8	482	15.5	3.11	51.9	26	30
	5.5	551	15.5	3.36	56.0	28	32
15 Gray*	3.4	344	14.9	3.02	50.3	27	31
	4.1	413	15.5	3.32	55.3	27	32
	4.8	482	16.2	3.61	60.2	28	32
	5.5	551	16.5	3.86	64.4	29	33
18 Red	3.4	344	15.2	3.27	54.5	28	33
	4.1	413	16.2	3.61	60.2	28	32
	4.8	482	16.8	3.93	65.5	28	32
	5.5	551	17.4	4.23	70.4	28	32
20 Dk. Brown*	4.1	413	16.2	4.20	70.0	32	37
	4.8	482	17.1	4.52	75.3	31	36
	5.5	551	17.7	4.88	81.4	31	36
	6.2	620	18.0	5.16	85.9	32	37
23 Dk. Green	4.1	413	17.1	4.77	79.5	33	38
	4.8	482	17.7	5.20	86.7	33	38
	5.5	551	18.3	5.57	92.7	33	38
	6.2	620	18.6	5.93	98.8	34	40
25 Dk. Blue*	4.1	413	17.7	5.50	91.6	35	41
	4.8	482	18.9	5.95	99.2	33	38
	5.5	551	19.5	6.43	107.1	34	39
	6.2	620	20.1	6.79	113.2	34	39
28 Black	4.8	482	18.3	6.27	104.5	37	43
	5.5	551	18.9	6.68	111.3	37	43
	6.2	620	19.8	7.09	118.1	36	42
	6.9	689	20.4	7.25	120.8	35	40

* 5 standard nozzles included with each sprinkler.

Note: All precipitation rates are calculated for 180-degree operation. For the precipitation rate for a 360-degree sprinkler, divide by 2.

P/N 700145 LIT-145 10/03