

innovation in irrigation™



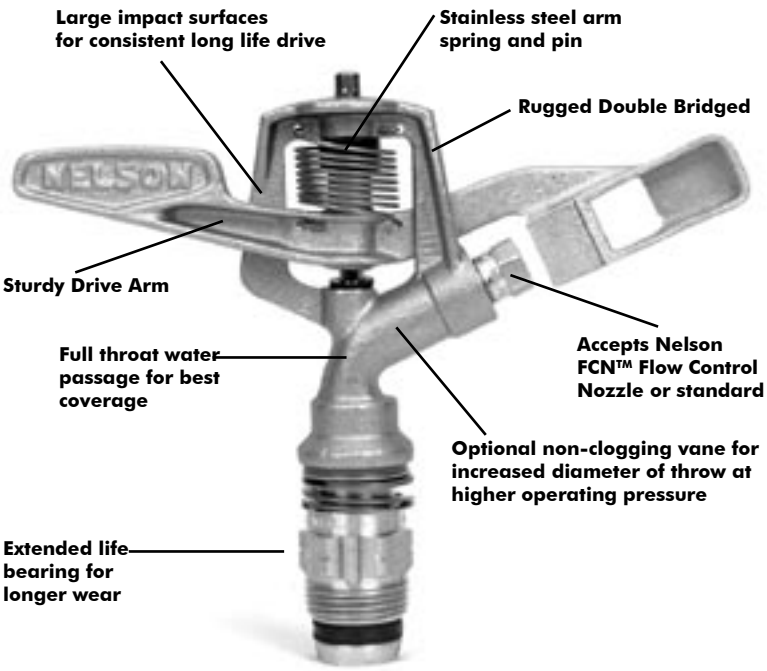
IMPACT SPRINKLERS

NELSON. BUILT STRONGER TO LAST LONGER!

There's a very basic reason behind the popularity of Nelson Impact Sprinklers. Our impacts offer a number of exclusive features and advantages which give better performance and longer life with a minimum of maintenance. Some of these features are pointed out in the illustration to the right.

We also go a bit further than most in testing and quality control. For instance, 100% of Nelson Brass Impact Sprinklers are individually water tested at the factory.

When it comes time to select the right sprinkler to fit your needs, Nelson offers a complete line of impact sprinklers — both high and low angle — available today for agricultural use. They're shown and



IMPACT SPRINKLER NOMENCLATURE



P35
P = Part Circle



F33S
F = Full Circle
S = Single Nozzle



F33P
F = Full Circle
P = Plug in Second Nozzle



P85A
P = Part Circle
A = Low Angle
V (not shown) = Vane



L20W - 7°
L = Low Angle
W = Wedge Drive



F33AA
F = Full Circle
AA = Low Angle, Double Nozzle

PERFORMANCE NOTE

Sprinkler performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions, or other factors. Nelson Irrigation Corporation makes no representation regarding droplet conditions, uniformity or application rate. All test data are based on no-wind test conditions.

NOTE: Flowrate data is in gallons per minute (GPM) & and throw distance is in radius feet (RAD. FT.).

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***IMPORTANT NOTE:** These products are no longer being produced and are not for sale. Information is provided for reference purposes only.

MODEL P35 (Part Circle) — 3/4" W/ VANE — 27° TRAJECTORY — (Data gathered from sprinkler on 12" riser — no wind)

BASE PSI	5/32"		11/64"		3/16"		13/64"		7/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	3.9	41	4.6	44	5.5	44	6.5	46	7.5	46
35	4.2	42	5.0	45	6.0	45	7.0	47	8.0	48
40	4.5	43	5.3	46	6.4	47	7.5	48	8.6	52
45	4.75	44	5.6	47	6.8	48	8.0	49	9.2	53
50	4.9	45	6.0	48	7.2	49	8.4	50	9.6	54
55	5.2	46	6.3	49	7.5	49	8.8	51	10.0	54
60	5.4	47	6.6	50	7.9	50	9.1	54	10.5	55
65	5.6	48	6.9	50	8.2	51	9.5	54	10.9	56
70	5.8	49	7.1	51	8.6	52	9.8	55	11.3	57
75	6.1	50	7.4	52	8.8	52	10.2	55	11.8	57
80	6.3	51	7.6	52	9.1	53	10.5	56	12.1	58

MODEL P65 (Part Circle) — 1" W/ VANE — 24° TRAJECTORY — (Data gathered from sprinkler on 18" riser — no wind)

BASE PSI	7/32"		1/4"		9/32"		19/64"		5/16"		21/64"		11/32"		23/64"		3/8"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	7.6	51	9.9	53	12.4	56	13.7	57	15.3	57	16.5	59	18.0	60	19.6	61	21.0	62
35	8.2	53	10.7	55	13.4	58	14.7	59	16.4	59	17.8	62	19.4	62	21.0	63	22.6	65
40	8.8	55	11.5	57	14.4	61	15.7	63	17.7	63	19.1	65	20.8	65	22.6	66	24.3	68
45	9.3	57	12.1	59	15.1	62	16.7	64	18.7	65	20.2	67	22.0	67	23.9	68	25.7	70
50	9.8	59	12.8	62	15.9	64	17.7	67	19.7	67	21.3	69	23.3	70	25.3	71	27.1	73
55	10.3	60	13.5	63	16.8	66	18.5	68	20.7	69	22.3	71	24.3	72	26.3	73	28.2	74
60	10.8	62	14.1	64	17.6	68	19.3	69	21.6	72	23.3	73	25.4	74	27.5	76	29.3	76
65	11.3	63	14.7	66	18.3	69	20.1	71	22.5	73	24.3	74	26.5	76	28.5	77	30.5	78
70	11.7	65	15.3	68	19.0	71	20.9	73	23.4	75	25.3	75	27.6	78	29.6	79	31.9	81
75	12.1	66	15.8	69	19.6	72	21.7	74	24.1	76	26.1	77	28.6	79	30.7	80	33.0	82
80	12.5	68	16.3	71	20.3	74	22.5	76	24.9	78	27.0	80	29.5	81	31.7	81	34.1	83

NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

MODEL P85PV (Part Circle) — 1 1/4" P85 W/ PLUG (P) AND VANE (V) — 24° TRAJECTORY — (Data gathered from sprinkler on

BASE PSI	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		5/8"		11/16"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
40	21.8	68	26.0	71	30.4	73	34.4	76	39.4	79	44.6	82	50.2	84	56.2	87	68.1	91	82.3	96
50	24.2	72	28.8	75	33.8	78	38.5	81	44.1	84	50.1	87	56.3	90	62.8	92	76.2	97	91.9	101
60	26.6	76	31.5	79	37.2	83	42.5	86	48.6	89	55.1	92	61.8	95	69.0	97	83.9	103	101.0	106
70	28.6	80	34.0	83	40.1	86	46.0	90	52.5	93	59.6	96	66.9	99	74.7	102	90.6	107	109.0	110
80	30.6	83	36.4	86	42.8	90	49.3	93	56.2	97	63.8	100	71.7	103	80.0	106	96.9	111	116.0	115
90	32.6	86	38.6	89	45.4	93	52.3	97	60.0	100	67.6	103	75.9	106	85.0	109	102.0	114		
100	34.4	88	40.7	92	47.9	96	55.1	100	63.2	103	71.2	106	80.0	110	89.6	113	108.0	118		

MODEL P85A (Part Circle) — (Data gathered from sprinkler on 12' riser — no wind)

BASE PSI	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		19/32"		5/8"		21/32"		11/16"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
20	15.4	48	18.2	49	21.3	51	23.7	52	27.9	53	31.4	55	35.4	56	39.7	57	44.1	58	47.9	60	52.8	61	56.7	62
30	18.9	55	22.4	56	26.2	58	29.5	60	34.4	62	38.9	63	43.7	64	49.0	65	54.2	66	59.3	68	66.4	70	69.8	71
40	21.8	61	26.0	62	30.5	64	34.5	66	39.9	68	45.0	69	50.7	71	57.0	72	62.9	73	69.0	75	77.0	76	83.7	78
50	24.6	64	29.1	66	34.1	68	38.9	70	44.7	71	50.5	73	56.8	75	63.4	76	70.4	78	77.4	79	86.0	80	93.8	81
60	27.0	67	32.1	69	37.6	71	43.0	73	49.3	75	55.7	76	62.5	78	70.0	80	77.3	81	85.4	83	94.8	85	103	86
70	29.0	69	34.8	72	40.7	74	46.7	76	53.2	78	60.4	79	67.7	81	75.8	83	83.8	84	92.8	86	102	87	111	89
80	31.0	72	37.3	74	43.7	76	50.0	78	57.0	80	64.7	82	72.5	84	81.3	85	89.9	87	99.2	89	110	90	119	92
90	33.2	74	39.4	76	46.2	78	52.9	81	60.8	82	68.5	84	76.8	86	86.3	88	95.3	90	104	91	116	92	126	93
100	35.0	76	41.5	78	48.8	80	55.8	83	64.0	85	72.6	87	81.0	88	90.9	90	101	92	110	94	122	95	133	97

MODEL P85AV (Part Circle) — (Data gathered from sprinkler on 12' riser — no wind)

BASE PSI	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		19/32"		5/8"		21/32"		11/16"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
20	15.4	53	18.2	55	21.7	57	23.9	59	27.4	60	31.1	62	34.9	64	39.3	66	43.4	67	47.7	68	51.3	69	55.5	70
30	18.8	60	22.3	62	26.4	65	29.6	66	33.9	69	38.4	71	43.1	73	48.4	75	53.5	76	58.7	78	64.9	79	70.5	81
40	21.8	66	26.0	68	30.4	71	34.4	73	39.4	76	44.6	78	50.2	80	56.2	82	62.2	84	68.1	86	76.5	87	82.3	89
50	24.2	71	28.8	74	33.8	76	38.5	79	44.1	81	50.1	84	56.3	86	62.8	89	69.5	91	76.2	93	84.7	94	91.9	96
60	26.5	75	31.5	78	37.2	81	42.5	84	48.6	87	55.1	89	61.8	92	69.0	94	76.4	97	83.9	99	93.0	100	101	102
70	28.6	79	34.0	82	40.1	86	46.0	89	52.5	91	59.6	94	66.9	97	74.7	99	82.6	102	90.6	104	101	105	109	107
80	30.6	83	36.4	86	42.8	89	49.3	93	56.2	96	63.8	98	71.7	101	80.0	104	88.4	107	96.9	109	108	110	116	112
90	32.6	86	38.6	90	45.4	93	52.3	96	60.0	100	67.6	102	75.9	105	85.0	108	93.7	111	102	113	114	114	123	116
100	34.4	89	40.7	93	47.9	97	55.1	100	63.2	103	71.2	106	80.0	109	89.6	112	98.8	115	108	118	121	119	130	120

NOTE: Performance figures shown are with standard nozzles. 8ADN nozzle sizes and flow rates are identical to standard nozzles, but since distance is adjustable, 8ADN radius performance is not shown. The P85 and P85V are available with secondary nozzle sizes of 7/64" to 5/16". Consult Nelson Irrigation Corporation for double nozzle performance information and for performance without vane.

NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

***MODEL 20W WEDGE DRIVE** (Full Circle) — 23° TRAJ. — MAX. STREAM HT. IS 7' ABOVE NOZ. (1/8" NOZ. @

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	31	.67	31	.80	32	.96	33	1.21	34	1.47	34	1.73	35	33	34	--	--
30	.60	32	.73	32	.87	33	1.06	34	1.34	35	1.62	35	1.91	36	34	35	36	36
35	.65	32	.80	32	.95	33	1.16	34	1.45	36	1.76	36	2.07	36	35	36	37	37
40	.70	32	.85	33	1.03	34	1.24	35	1.56	36	1.89	36	2.22	37	36	37	37	38
45	.74	33	.91	33	1.10	34	1.33	35	1.66	37	2.01	37	2.36	38	36	37	38	38
50	.78	33	.96	34	1.16	34	1.40	36	1.76	37	2.12	38	2.50	39	36	37	38	39
55	.82	34	1.01	34	1.21	35	1.48	37	1.85	38	2.23	38	2.62	39	37	38	38	39
60	.86	34	1.07	34	1.26	35	1.55	37	1.94	38	2.34	38	2.75	39	37	38	38	40

***MODEL 20-04** (Full Circle) — 23° TRAJECTORY — MAX. STREAM HT. IS 7' ABOVE NOZZLE (1/8" NOZ. @ 45 PSI)

BASE PSI	Nozzle								FCN Nozzle			
	3/32"		7/64"		1/8"		9/64"		2.0	2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	32	1.54	32	2.03	33	2.53	33				
25	1.21	34	1.73	35	2.28	35	2.82	36				
30	1.34	35	1.91	36	2.50	36	3.09	37	36	36	37	37
35	1.45	36	2.07	36	2.70	37	3.33	38	37	37	38	38
40	1.56	36	2.22	37	2.89	38	3.55	39	37	38	38	39
45	1.66	37	2.36	38	3.07	39	3.77	40	38	38	38	39
50	1.76	37	2.50	39	3.24	40	3.96	40	38	39	39	40
55	1.85	38	2.62	39	3.40	40	4.15	41	38	39	39	40
60	1.94	38	2.75	39	3.56	40	4.34	41	38	39	40	40

***MODEL 20-06** (Full Circle) — 23° TRAJECTORY — MAX. STREAM HT. IS 7' ABOVE NOZZLE (1/8" NOZ. @ 45 PSI)

BASE PSI	Nozzle								FCN Nozzle		
	1/8"		9/64"		5/32"		11/64"		2.0	3.0	3.0
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	2.03	33	2.53	34	3.08	35	3.62	37			
25	2.28	35	2.82	36	3.45	37	4.07	38			
30	2.50	36	3.09	37	3.77	39	4.48	40	36	37	37
35	2.70	37	3.33	38	4.07	40	4.86	41	37	38	38
40	2.89	38	3.55	39	4.35	40	5.21	41	38	38	39
45	3.07	39	3.77	40	4.62	41	5.55	42	38	38	39
50	3.24	40	3.96	40	4.86	41	5.86	42	39	39	40
55	3.40	40	4.15	41	5.10	42	6.16	43	39	39	40
60	3.56	40	4.34	41	5.33	42	6.45	43	39	40	40

*These products are no longer being produced and are not for sale. Information is provided for reference purposes only.

NOTE: All test data are based on no-wind test conditions at a 30-inch nozzle height. A stream straightener vane adds 3 feet to the radius of throw shown above and results in a flow reduction of 3%. (Specify Model 2V Vane.)

NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

Wedge drive gives an extra "kick" for more driving power and improved impact sprinkler performance at lower pressures using smaller nozzle sizes. Pick the low trajectory angle (5°-15°) you want for under-tree use and for better wind-fighting ability.

***MODEL L20W** (Full Circle) — 5° TRAJECTORY — MAX. STREAM HT. IS 1.0' ABOVE NOZ. (3/32" NOZZLE AT 40 PSI)

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	18	.67	19	.80	20	.96	22	1.21	24	1.47	24	1.73	24	20	20	21	--
30	.60	19	.73	20	.87	22	1.06	24	1.34	25	1.62	25	1.91	25	21	21	22	26
35	.65	21	.80	22	.95	23	1.16	25	1.45	26	1.76	26	2.07	26	22	23	24	26
40	.70	22	.85	23	1.03	24	1.24	26	1.56	27	1.89	27	2.22	27	22	23	27	27
45	.74	23	.91	24	1.10	25	1.33	27	1.66	28	2.01	28	2.36	28	22	24	27	28
50	.78	23	.96	24	1.16	25	1.40	27	1.76	29	2.12	29	2.50	29	22	25	27	29
55	.82	23	1.01	24	1.21	25	1.48	27	1.85	30	2.23	30	2.62	30	22	25	28	30
60	.86	23	1.07	24	1.26	25	1.55	27	1.94	30	2.34	30	2.75	30	23	25	29	30

***MODEL L20W** (Full Circle) — 7° TRAJECTORY — MAX. STREAM HT. IS 1.5' ABOVE NOZ. (3/32" NOZZLE AT 40 PSI)

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	19	.67	20	.80	21	.96	23	1.21	25	1.47	25	1.73	25	21	22	23	--
30	.60	20	.73	21	.87	23	1.06	24	1.34	26	1.62	26	1.91	26	22	23	24	26
35	.65	22	.80	23	.95	24	1.16	25	1.45	27	1.76	27	2.07	27	23	25	26	27
40	.70	23	.85	24	1.03	25	1.24	26	1.56	28	1.89	28	2.22	28	24	25	27	28
45	.74	24	.91	25	1.10	26	1.33	27	1.66	28	2.01	29	2.36	29	24	26	28	29
50	.78	24	.96	25	1.16	26	1.40	27	1.76	29	2.12	30	2.50	30	24	27	29	30
55	.82	24	1.01	25	1.21	26	1.48	28	1.85	31	2.23	31	2.62	31	24	27	29	31
60	.86	24	1.07	25	1.26	26	1.55	29	1.94	31	2.34	31	2.75	31	25	28	30	31

***MODEL L20W** (Full Circle) — 9° TRAJECTORY — MAX. STREAM HT. IS 2.0' ABOVE NOZ. (3/32" NOZZLE AT 40 PSI)

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	21	.67	21	.80	22	.96	23	1.21	26	1.47	26	1.73	27	23	24	25	--
30	.60	22	.73	23	.87	24	1.06	25	1.34	27	1.62	27	1.91	28	24	25	26	28
35	.65	23	.80	24	.95	26	1.16	27	1.45	28	1.76	29	2.07	29	25	27	28	30
40	.70	24	.85	25	1.03	27	1.24	28	1.56	29	1.89	29	2.22	30	26	27	29	31
45	.74	25	.91	26	1.10	27	1.33	28	1.66	29	2.01	30	2.36	31	26	29	29	31
50	.78	25	.96	27	1.16	28	1.40	29	1.76	30	2.12	31	2.50	31	26	28	30	32
55	.82	26	1.01	28	1.21	29	1.48	30	1.85	31	2.23	32	2.62	32	26	28	31	33
60	.86	26	1.07	28	1.26	29	1.55	31	1.94	32	2.34	32	2.75	32	27	29	31	33

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NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

***MODEL L2OW** (Full Circle) — 11° TRAJECTORY — MAX. STREAM HT. IS 2.7' ABOVE NOZ. (3/32" NOZZLE AT 40 PSI)

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	22	.67	23	.80	24	.96	25	1.21	28	1.47	28	1.73	28	24	26	27	--
30	.60	23	.73	24	.87	26	1.06	28	1.34	30	1.62	30	1.91	30	25	27	28	31
35	.65	24	.80	25	.95	27	1.16	29	1.45	31	1.76	31	2.07	31	26	28	29	32
40	.70	25	.85	26	1.03	27	1.24	29	1.56	32	1.89	32	2.22	32	27	29	30	33
45	.74	26	.91	27	1.10	28	1.33	30	1.66	33	2.01	33	2.36	33	27	29	30	33
50	.78	26	.96	27	1.16	28	1.40	31	1.76	33	2.12	33	2.50	33	27	29	31	33
55	.82	27	1.01	28	1.21	29	1.48	31	1.85	33	2.23	34	2.62	34	27	29	32	33
60	.86	28	1.07	28	1.26	29	1.55	31	1.94	34	2.34	34	2.75	34	28	30	32	34

***MODEL L2OW** (Full Circle) — 13° TRAJECTORY — MAX. STREAM HT. IS 3.5' ABOVE NOZ. (3/32" NOZZLE AT 40 PSI)

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	23	.67	24	.80	25	.96	26	1.21	28	1.47	29	1.73	29	25	26	27	--
30	.60	24	.73	25	.87	26	1.06	28	1.34	30	1.62	30	1.91	30	26	27	28	31
35	.65	25	.80	26	.95	27	1.16	29	1.45	31	1.76	31	2.07	31	27	28	29	31
40	.70	26	.85	27	1.03	28	1.24	30	1.56	32	1.89	32	2.22	32	27	29	30	32
45	.74	27	.91	28	1.10	29	1.33	31	1.66	33	2.01	33	2.36	33	28	29	30	32
50	.78	27	.96	28	1.16	29	1.40	31	1.76	33	2.12	33	2.50	33	28	29	31	33
55	.82	28	1.01	29	1.21	30	1.48	32	1.85	34	2.23	34	2.62	34	28	29	32	33
60	.86	29	1.07	29	1.26	30	1.55	33	1.94	35	2.34	35	2.75	35	29	30	32	34

***MODEL L2OW** (Full Circle) — 15° TRAJECTORY — MAX. STREAM HT. IS 4.0' ABOVE NOZ. (3/32" NOZZLE AT 40 PSI)

BASE PSI	2RN Nozzle												2FCN Nozzle					
	#8 (1/16")		#9		#10 (5/64")		#11		#12 (3/32")		#13		#14 (7/64)		1.0	1.5	2.0	2.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
25	.55	25	.67	26	.80	26	.96	28	1.21	30	1.47	30	1.73	30	26	27	28	--
30	.60	26	.73	27	.87	27	1.06	29	1.34	31	1.62	31	1.91	32	28	28	29	33
35	.65	27	.80	28	.95	28	1.16	30	1.45	32	1.76	32	2.07	33	28	29	31	33
40	.70	27	.85	28	1.03	29	1.24	31	1.56	33	1.89	33	2.22	34	28	29	31	34
45	.74	28	.91	29	1.10	30	1.33	32	1.66	34	2.01	34	2.36	35	29	30	31	34
50	.78	28	.96	29	1.16	30	1.40	32	1.76	34	2.12	34	2.50	35	29	30	32	35
55	.82	29	1.01	30	1.21	31	1.48	33	1.85	35	2.23	35	2.62	36	29	30	32	35
60	.86	30	1.07	31	1.26	31	1.55	34	1.94	36	2.34	36	2.75	36	30	31	33	35

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NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

Low angle for better wind-fighting ability. Ideal for under-tree orchard systems. Available in trajectory angles from 5°-15° in 2° increments. Trajectory angle is built into the brass body for better hydraulic flow and maximum distance of throw. Accepts Nelson FCN® Flow Control Nozzle to equalize flow rate under fluctuating pressures. L20-04T is the same sprinkler as the L20-04 except it has a 3/4" bearing. Designed primarily for use on center pivot systems. Performance data is identical to L20-04.

***MODEL L20-04** (Full Circle) — 5° TRAJECTORY — MAX. STREAM HT. IS 0.75' ABOVE NOZ. (1/8" NOZZLE AT 45

BASE PSI	Nozzle								FCN® Nozzle		
	3/32"		7/64"		1/8"		9/64"		2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	22	1.54	22	2.03	22	2.53	23			
25	1.21	24	1.73	24	2.28	24	2.82	25			
30	1.34	25	1.91	25	2.50	25	3.09	26	26	26	26
35	1.45	26	2.07	26	2.70	26	3.33	27	26	27	27
40	1.56	27	2.22	27	2.89	27	3.55	28	27	28	28
45	1.66	28	2.36	28	3.07	28	3.77	29	28	29	29
50	1.76	29	2.50	29	3.24	29	3.96	30	29	29	29
55	1.85	30	2.62	30	3.40	30	4.15	31	30	30	30
60	1.94	30	2.75	30	3.56	30	4.34	31	30	30	30

***MODEL L20-04** (Full Circle) — 7° TRAJECTORY — MAX. STREAM HT. IS 1.2' ABOVE NOZ. (1/8" NOZZLE AT 45 PSI)

BASE PSI	Nozzle								FCN® Nozzle		
	3/32"		7/64"		1/8"		9/64"		2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	23	1.54	23	2.03	23	2.53	24			
25	1.21	25	1.73	25	2.28	25	2.82	26			
30	1.34	26	1.91	26	2.50	26	3.09	27	26	26	26
35	1.45	27	2.07	27	2.70	27	3.33	27	27	27	27
40	1.56	28	2.22	28	2.89	28	3.55	28	28	28	28
45	1.66	29	2.36	29	3.07	29	3.77	29	29	29	29
50	1.76	30	2.50	30	3.24	30	3.96	30	30	30	30
55	1.85	31	2.62	31	3.40	31	4.15	31	31	31	31
60	1.94	31	2.75	31	3.56	31	4.34	31	31	31	31

***MODEL L20-04** (Full Circle) — 9° TRAJECTORY — MAX. STREAM HT. IS 1.7' ABOVE NOZ. (1/8" NOZZLE AT 45 PSI)

BASE PSI	Nozzle								FCN® Nozzle		
	3/32"		7/64"		1/8"		9/64"		2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	24	1.54	25	2.03	25	2.53	26			
25	1.21	26	1.73	27	2.28	27	2.82	28			
30	1.34	27	1.91	28	2.50	28	3.09	29	28	29	29
35	1.45	28	2.07	29	2.70	29	3.33	30	30	30	30
40	1.56	29	2.22	30	2.89	30	3.55	31	31	31	31
45	1.66	30	2.36	31	3.07	31	3.77	32	31	32	32
50	1.76	31	2.50	31	3.24	31	3.96	32	32	32	32
55	1.85	32	2.62	32	3.40	32	4.15	33	33	33	33
60	1.94	32	2.75	32	3.56	32	4.34	33	33	33	33

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NOTE: All test data are based on no-wind test conditions at a 30-inch nozzle height. A stream straightener vane adds 2 feet to the radius of throw shown above and results in a flow reduction of 2%. (Specify Model 2V Vane.)

NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

***MODEL L20-04** (Full Circle) — 11° TRAJECTORY — MAX. STREAM HT. IS 2.3' ABOVE NOZ. (1/8" NOZZLE AT 45

BASE PSI	Nozzle								FCN® Nozzle		
	3/32"		7/64"		1/8"		9/64"		2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	26	1.54	26	2.03	26	2.53	27			
25	1.21	28	1.73	28	2.28	28	2.82	29			
30	1.34	30	1.91	30	2.50	30	3.09	31	31	32	32
35	1.45	31	2.07	31	2.70	31	3.33	32	32	33	33
40	1.56	32	2.22	32	2.89	32	3.55	33	33	33	33
45	1.66	33	2.36	33	3.07	33	3.77	34	33	33	33
50	1.76	33	2.50	33	3.24	33	3.96	34	33	34	34
55	1.85	34	2.62	34	3.40	34	4.15	35	33	34	34
60	1.94	34	2.75	34	3.56	34	4.34	35	34	34	35

***MODEL L20-04** (Full Circle) — 13° TRAJECTORY — MAX. STREAM HT. IS 2.9' ABOVE NOZ. (1/8" NOZZLE AT 45

BASE PSI	Nozzle								FCN® Nozzle		
	3/32"		7/64"		1/8"		9/64"		2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	27	1.54	27	2.03	27	2.53	27			
25	1.21	28	1.73	29	2.28	29	2.82	29			
30	1.34	30	1.91	30	2.50	30	3.09	31	31	31	31
35	1.45	31	2.07	31	2.70	31	3.33	32	31	32	32
40	1.56	32	2.22	32	2.89	32	3.55	33	32	32	32
45	1.66	33	2.36	33	3.07	33	3.77	34	32	33	33
50	1.76	33	2.50	33	3.24	33	3.96	34	33	33	34
55	1.85	34	2.62	34	3.40	34	4.15	35	33	34	34
60	1.94	35	2.75	35	3.56	35	4.34	35	34	34	35

***MODEL L20-04** (Full Circle) — 15° TRAJECTORY — MAX. STREAM HT. IS 3.4' ABOVE NOZ. (1/8" NOZZLE AT 45

BASE PSI	Nozzle								FCN® Nozzle		
	3/32"		7/64"		1/8"		9/64"		2.5	3.0	3.5
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	RAD. FT.	RAD. FT.	RAD. FT.
20	1.07	28	1.54	28	2.03	28	2.53	29			
25	1.21	30	1.73	30	2.28	30	2.82	31			
30	1.34	31	1.91	32	2.50	32	3.09	33	33	34	34
35	1.45	32	2.07	33	2.70	33	3.33	34	33	34	34
40	1.56	33	2.22	34	2.89	34	3.55	35	34	35	35
45	1.66	34	2.36	35	3.07	35	3.77	36	34	35	36
50	1.76	34	2.50	35	3.24	35	3.96	36	35	36	36
55	1.85	35	2.62	36	3.40	36	4.15	37	35	36	36
60	1.94	36	2.75	36	3.56	36	4.34	37	36	36	37

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NOTE: Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

F32S/F33S (Full Circle) — 3RN NOZZLE — 25° TRAJECTORY — (Data gathered from sprinkler on 30" riser)

F32S — Single Nozzle — 3/4" Aluminum Arm

NOZ. PSI	7/64"		1/8"		9/64"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	1.73	77	2.25	78	2.88	80
30	1.89	78	2.47	79	3.15	81
35	2.05	78	2.68	80	3.40	82
40	2.19	79	2.87	81	3.64	83
45	2.32	80	3.05	82	3.86	84
50	2.45	80	3.22	83	4.07	85
55	2.57	81	3.38	84	4.27	86
60	2.68	82	3.53	85	4.46	87
65	2.79	82	3.68	86	4.65	88
70	2.90	83	3.82	86	4.83	89
75	3.00	83	3.96	87	5.00	90
80	3.10	84	4.09	87	5.17	91

F33S — Single Nozzle — 3/4" Brass Arm

NOZ. PSI	1/8"		9/64"		5/32"		11/64"		3/16"		13/64"		7/32"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	2.25	78	2.88	80	3.52	82	4.24	83	5.00	85	5.90	86	6.85	88
30	2.47	79	3.15	81	3.85	85	4.64	88	5.50	91	6.50	94	7.55	96
35	2.68	80	3.40	82	4.16	87	5.02	90	5.96	94	7.05	97	8.20	100
40	2.87	81	3.64	83	4.45	88	5.37	92	6.38	96	7.55	99	8.80	102
45	3.05	82	3.86	84	4.72	89	5.70	94	6.78	98	8.00	101	9.35	104
50	3.22	83	4.07	85	4.98	90	6.01	95	7.16	100	8.45	103	9.9	106
55	3.38	84	4.27	86	5.22	91	6.30	96	7.52	101	8.85	104	10.40	107
60	3.53	85	4.46	87	5.45	92	6.57	97	7.85	102	9.25	105	Do not operate over 60 PSI	
65	3.68	86	4.65	88	5.68	93	6.83	98	8.18	103	9.60	106		
70	3.82	86	4.83	89	5.90	94	7.09	99	8.50	104	9.95	107		
75	3.96	87	5.00	90	6.11	95	7.34	100	8.80	105	10.25	108		
80	4.09	87	5.17	91	6.30	96	7.58	101	9.09	106	10.50	109		

F32SV/F33SV (Full Circle) — 3RN NOZ. — W/ STREAM STRAIGHTENING VANE — 25° TRAJECTORY

F32SV — Single Nozzle w/vane — 3/4" Aluminum Arm

NOZ. PSI	7/64"		1/8"		9/64"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	1.73	78	2.25	82	2.88	85
30	1.89	79	2.47	84	3.15	87
35	2.05	80	2.68	85	3.40	89
40	2.19	81	2.87	86	3.64	91
45	2.32	82	3.05	87	3.86	92
50	2.45	83	3.22	88	4.07	93
55	2.57	84	3.38	89	4.27	94
60	2.68	85	3.53	90	4.46	95
65	2.79	86	3.68	91	4.65	96
70	2.90	87	3.82	92	4.83	97
75	3.00	88	3.96	93	5.00	98
80	3.10	89	4.09	94	5.17	100

F33SV — Single Nozzle w/vane — 3/4" Brass Arm

NOZ. PSI	1/8"		9/64"		5/32"		11/64"		3/16"		13/64"		7/32"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
40	2.87	86	3.64	91	4.45	94	5.37	96	6.38	101	7.55	105	8.80	106
45	3.05	87	3.86	92	4.72	96	5.70	98	6.78	104	8.00	106	9.35	108
50	3.22	88	4.07	93	4.98	98	6.01	100	7.16	106	8.45	107	9.90	110
55	3.38	89	4.27	94	5.22	100	6.30	102	7.52	108	8.85	108	10.40	112
60	3.53	90	4.46	95	5.45	101	6.57	103	7.85	109	9.25	110	Do not operate over 60 PSI	
65	3.68	91	4.65	96	5.68	102	6.83	104	8.18	110	9.60	112		
70	3.82	92	4.83	97	5.90	103	7.09	106	8.50	111	9.95	114		
75	3.96	93	5.00	98	6.11	104	7.34	108	8.80	112	10.25	116		
80	4.09	94	5.17	100	6.30	105	7.58	110	9.09	113	10.50	118		

NOTE: Data gathered from sprinkler on 30" riser. The F33 3/4" Double Nozzle Sprinkler can be used for flowrates exceeding 10 gpm.

NOTE: STATED PERFORMANCE AT NOZZLE PRESSURE.

F32SV/F33SV (Full Circle) — 3FCN NOZ. — W/ STREAM STRAIGHTENING VANE — 25° TRAJECTORY

FLOW CONTROL NOZZLE — Nelson Impact Sprinklers are available with the Nelson Flow Control Nozzle FCN™ — Flow Control Nozzles deliver a constant flow over a wide range of pressure.

F32SV — 3/4" Aluminum Arm

BASE PSI	2.5 3FCN	3.0 3FCN	3.5 3FCN	4.0 3FCN	4.3 3FCN
40	82	84	84	84	86
50	82	84	84	84	86
60	84	86	86	86	88
70			86	86	88
80			86	88	88

F33SV — 3/4" Brass Arm

BASE PSI	4.3 3FCN	5.0 3FCN	5.5 3FCN	6.0 3FCN	7.0 3FCN	8.0 3FCN	9.0 3FCN	10.0 3FCN
40	86	88	90	94	96	100	102	106
50	86	88	92	94	96	100	102	106
60	88	90	92	96	98	100	104	106
70	88	90	94	96	98	102	104	106
80	88	92	94	96	100	102	104	104

NOTE: Data gathered from sprinkler on 30" riser. Stated performance at **BASE PRESSURE**.

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

MODEL F33 (Full Circle) — TWO NOZZLES — MAX. STREAM HT. IS 7' ABOVE NOZ. (1/8" NOZ. @ normal operating press.)

9/64" x 3/32" Noz. @ 7° 5/32" x 3/32" Noz. @ 7° 11/64" x 3/32" Noz. @ 7° 3/16" x 3/32" Noz. @ 7° 3/16" x 1/8" Noz. @ 20° 13/64 x 1/8" Noz. @ 20° 7/32" x 1/8" Noz. @ 20°

NOZ. PSI	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.		
25	4.18	80	4.83	82	5.55	83	6.31	85	7.40	85	8.30	86	9.25	88
30	4.58	81	5.28	85	6.07	88	6.93	91	8.15	91	9.15	94	10.20	96
35	4.95	82	5.71	87	6.57	90	7.51	94	8.83	94	9.93	97	11.10	100
40	5.29	83	6.11	88	7.03	92	8.03	96	9.46	96	10.65	99	11.90	102
45	5.61	84	6.48	89	7.46	94	8.53	98	10.05	98	11.30	101	12.65	104
50	5.91	85	6.82	90	7.87	95	9.00	100	10.60	100	11.90	103	13.35	106
55	6.20	86	7.15	91	8.25	96	9.45	101	11.10	101	12.50	104	14.00	107
60	6.48	87	7.47	92	8.60	97	9.86	102	11.60	102	13.00	105	14.50	108
65	6.75	88	7.78	93	8.93	98	10.27	103	12.10	103	13.50	106	15.00	109
70	7.00	89	8.08	94	9.25	99	10.66	104	12.50	104	14.00	107	15.45	110
75	7.25	90	8.37	95	9.56	100	11.02	105	12.90	105	14.40	108	15.90	111
80	7.49	91	8.65	96	9.87	101	11.36	106	13.25	106	14.80	109	16.30	112

MODEL F33V (Full Circle) — TWO NOZZLES W/ VANE — MAX. STREAM HT. IS 7' ABOVE NOZ. (1/8" NOZ. @ normal operating)

9/64" x 3/32" Noz. @ 7° 5/32" x 3/32" Noz. @ 7° 11/64" x 3/32" Noz. @ 7° 3/16" x 3/32" Noz. @ 7° 3/16" x 1/8" Noz. @ 20° 13/64 x 1/8" Noz. @ 20° 7/32" x 1/8" Noz. @ 20°

NOZ. PSI	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.		
40	5.29	91	6.11	94	7.03	96	8.03	101	9.46	101	10.65	105	11.90	106
45	5.61	92	6.48	96	7.46	98	8.53	104	10.05	104	11.30	106	12.65	108
50	5.91	93	6.82	98	7.87	100	9.00	106	10.60	106	11.90	107	13.35	110
55	6.20	94	7.15	100	8.25	102	9.45	108	11.10	108	12.50	108	14.00	112
60	6.48	95	7.47	101	8.60	103	9.86	109	11.60	109	13.00	110	14.50	114
65	6.75	96	7.78	102	8.93	104	10.27	110	12.10	110	13.50	112	15.00	116
70	7.00	97	8.08	103	9.25	106	10.66	111	12.50	111	14.00	114	15.45	118
75	7.25	98	8.37	104	9.56	108	11.02	112	12.90	112	14.40	116	15.90	120
80	7.49	100	8.65	105	9.87	110	11.36	113	13.25	113	14.80	118	16.30	122

MODEL F33S OR F33P — SINGLE NOZZLE — MAX. STREAM HT. IS 7' ABOVE NOZ. (1/8" NOZ. @ normal operating press.)

9/64" 5/32" 11/64" 3/16" 13/64" 7/32"

NOZ. PSI	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	2.88	80	3.52	82	4.24	83	5.00	85	5.90	86	6.85	88
30	3.15	81	3.85	85	4.64	88	5.50	91	6.50	94	7.55	96
35	3.40	82	4.16	87	5.02	90	5.96	94	7.05	97	8.20	100
40	3.64	83	4.45	88	5.37	92	6.38	96	7.55	99	8.80	102
45	3.86	84	4.72	89	5.70	94	6.78	98	8.00	101	9.35	104
50	4.07	85	4.98	90	6.01	95	7.16	100	8.45	103	9.90	106
55	4.27	86	5.22	91	6.30	96	7.52	101	8.85	104	10.40	107
60	4.46	87	5.45	92	6.57	97	7.85	102	9.25	105	10.75	108
65	4.65	88	5.68	93	6.83	98	8.18	103	9.60	106	11.10	109
70	4.83	89	5.90	94	7.09	99	8.50	104	9.95	107	11.40	110
75	5.00	90	6.11	95	7.34	100	8.80	105	10.25	108	11.70	111
80	5.17	91	6.30	96	7.58	101	9.09	106	10.50	109	12.00	112

NOTE: Stated performance at **NOZ PRESSURE.**

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

MODEL F33AS — SINGLE NOZZLE — MAX. STREAM HT. IS 4' ABOVE NOZ. (11/64" NOZ. @ normal operating press.)

NOZ. PSI	9/64"		5/32"		11/64"		3/16"		13/64"		7/32"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	2.88	72	3.52	75	4.24	78	5.00	80	5.90	82	6.85	84
30	3.15	75	3.85	78	4.64	81	5.50	84	6.50	86	7.55	88
35	3.40	77	4.16	81	5.02	84	5.96	87	7.05	89	8.20	91
40	3.64	79	4.45	83	5.37	86	6.38	89	7.55	91	8.80	93
45	3.86	81	4.72	85	5.70	88	6.78	91	8.00	93	9.35	95
50	4.07	82	4.98	86	6.01	90	7.16	93	8.45	95	9.90	97
55	4.27	83	5.22	87	6.30	91	7.52	94	8.85	96	10.40	98
60	4.46	84	5.45	88	6.57	92	7.85	95	9.25	97	10.75	99
65	4.65	85	5.68	89	6.83	93	8.18	96	9.60	98	11.10	100
70	4.83	86	5.90	90	7.09	94	8.50	97	9.95	99	11.40	101
75	5.00	87	6.11	91	7.34	95	8.80	98	10.25	100	11.70	102
80	5.17	88	6.30	92	7.58	96	9.09	99	10.50	101	12.00	103

MODEL F33ASV — SINGLE NOZZLE W/ VANE — MAX. STREAM HT. IS 4' ABOVE NOZ. (11/64" NOZ. @ normal operating

NOZ. PSI	9/64"		5/32"		11/64"		3/16"		13/64"		7/32"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
40	3.64	82	4.45	86	5.37	90	6.38	93	7.55	96	8.80	98
45	3.86	84	4.72	88	5.70	92	6.78	96	8.00	99	9.35	101
50	4.07	85	4.98	89	6.01	94	7.16	98	8.45	101	9.90	103
55	4.27	86	5.22	90	6.30	95	7.52	100	8.85	103	10.40	105
60	4.46	87	5.45	91	6.57	96	7.85	101	9.25	104	10.75	107
65	4.65	88	5.68	92	6.83	97	8.18	102	9.60	105	11.10	108
70	4.83	89	5.90	93	7.09	98	8.50	103	9.95	106	11.40	109
75	5.00	90	6.11	94	7.34	99	8.80	104	10.25	107	11.70	110
80	5.17	91	6.30	95	7.58	100	9.09	105	10.50	108	12.00	111

MODEL F33AA — 15° TRAJECTORY — (Radius data is for sprinkler tests at 32" above surface.)

BASE PSI	5/32" x 9/64"		5/32" x 5/32"		11/64" x 5/32"		11/64" x 11/64"		3/16" x 11/64"		3/16" x 3/16"		13/64" x 3/16"		13/64" x 13/64"		7/32" x 13/64"		7/32" x 7/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
20	5.65	31	6.31	31	6.90	31	7.50	31	8.14	32	8.85	32	9.62	33	10.4	33	11.2	33	12.1	33
25	6.28	34	6.98	34	7.64	34	8.31	34	9.03	35	9.81	35	10.7	35	11.5	35	12.5	36	13.4	36
30	6.88	36	7.62	36	8.36	36	9.09	36	9.87	37	10.7	37	11.7	37	12.6	37	13.6	39	14.6	39
35	7.45	38	8.24	38	9.04	38	9.83	38	10.7	39	11.6	39	12.6	39	13.6	39	14.7	42	15.8	42
40	7.99	39	8.82	39	9.69	40	10.5	40	11.5	41	12.4	41	13.5	41	14.6	41	15.7	44	16.9	44
45	8.50	40	9.38	40	10.3	41	11.2	41	12.2	42	13.2	42	14.4	42	15.5	42	16.7	45	17.9	45
50	8.98	42	9.91	42	10.9	42	11.9	42	12.9	43	14.0	43	15.2	44	16.4	44	17.7	46	18.9	46
55	9.44	43	10.4	43	11.5	43	12.5	43	13.5	44	14.7	44	15.9	45	17.2	45	18.5	47	19.8	47
60	9.86	44	10.9	44	12.0	44	13.0	44	14.1	45	15.4	45	16.7	46	18.0	46	19.4	47	20.7	47
65	10.3	44	11.3	44	12.5	45	13.5	45	14.7	46	16.0	46	17.3	47	18.7	47	20.1	48	21.5	48
70	10.6	44	11.7	44	13.0	45	14.0	45	15.3	46	16.6	46	18.0	47	19.3	47	20.8	49	22.3	49
75	11.0	45	12.1	45	13.4	46	14.5	46	15.8	47	17.1	47	18.5	48	19.9	48	21.5	50	23.0	50
80	11.3	45	12.5	45	13.8	46	14.9	46	16.2	47	17.6	47	19.1	48	20.5	48	22.1	50	23.6	50

NOTE: F33AA — Available with 2 different nozzle combinations: Standard nozzles from 9/64" through 7/32", 3 FCN Flow Control Nozzles from 5 through 10 gpm.

NOTE: F33AS and F33ASV stated performance at **NOZZLE PRESSURE** and F33AA stated performance at **BASE PRESSURE**.
PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

***MODEL F33AV** — 15° TRAJECTORY — (Radius data is for sprinkler tests at 32" above surface.)

BASE PSI	5/32" x 9/64"		5/32" x 5/32"		11/64" x 5/32"		11/64" x 11/64"		3/16" x 11/64"		3/16" x 3/16"		13/64" x 3/16"		13/64" x 13/64"		7/32" x 13/64"		7/32" x 7/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
20	5.65	32	6.31	32	6.90	32	7.50	32	8.1	34	8.80	34	9.50	34	10.2	34	10.9	34	11.7	34
25	6.25	35	6.98	35	7.64	35	8.31	35	9.03	37	9.75	37	10.6	37	11.3	37	12.2	38	13.0	38
30	6.88	37	7.62	37	8.36	37	9.09	37	9.87	39	10.7	39	11.6	40	12.5	40	13.4	41	14.4	41
35	7.45	39	8.24	39	9.04	40	9.83	40	10.07	41	11.6	41	12.6	43	13.5	43	14.6	44	15.7	44
40	7.99	40	8.82	40	9.69	42	10.5	42	11.5	44	12.4	44	13.5	46	14.5	46	15.6	47	16.7	47
45	8.50	41	9.38	41	10.3	43	11.2	43	12.2	46	13.2	46	14.4	48	15.4	48	16.6	49	17.7	49
50	8.98	43	9.91	43	10.9	44	11.9	44	12.9	47	14.0	47	15.2	49	16.3	49	17.6	50	18.7	50
55	9.44	44	10.4	44	11.5	45	12.5	45	13.5	48	14.7	48	15.8	50	17.1	50	18.4	51	19.6	51
60	9.86	45	10.9	45	12.0	47	13.0	47	14.1	49	15.4	49	16.6	51	17.9	51	19.3	52	20.4	52
65	10.3	45	11.3	45	12.5	48	13.5	48	14.7	50	16.0	50	17.3	52	18.6	52	20.0	54	21.3	54
70	10.6	46	11.7	46	13.0	48	14.0	48	15.3	51	16.6	51	18.0	53	19.3	53	20.8	55	22.1	55
75	11.0	47	12.1	47	13.4	49	14.5	49	15.8	52	17.1	52	18.5	54	19.9	54	21.5	56	22.9	56
80	11.3	47	12.5	47	13.8	49	14.9	49	16.2	52	17.6	52	19.1	55	20.5	55	22.1	57	23.5	57

MODEL F43AP — SINGLE NOZZLE

NOZ. PSI	13/64"		7/32"		15/64"		1/4"		17/64"		9/32"		19/64"		5/16"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	5.80	72	6.75	72	7.8	74	8.8	74	9.9	74	11.2	75	12.4	75	13.8	76
30	6.35	76	7.39	76	8.5	78	9.6	78	10.8	79	12.2	80	13.6	80	15.1	82
35	6.86	80	7.99	83	9.2	83	10.4	84	11.7	84	13.2	84	14.7	85	16.3	86
40	7.34	83	8.54	84	9.8	86	11.1	88	12.5	89	14.1	90	15.7	90	17.4	92
45	7.78	84	9.06	85	10.4	88	11.8	90	13.3	90	15.0	92	16.6	93	18.4	94
50	8.20	86	9.55	86	11.0	90	12.4	92	14.0	92	15.8	94	17.5	94	19.4	96
55	8.60	87	10.01	88	11.5	92	13.1	94	14.7	95	16.5	96	18.4	96	20.4	96
60	8.99	88	10.46	88	12.0	92	13.6	96	15.3	98	17.3	98	19.2	98	21.3	98
65	9.35	90	10.88	90	12.5	96	14.2	98	16.0	100	18.0	100	20.0	100	22.2	100
70	9.71	92	11.29	94	13.0	98	14.7	100	16.6	100	18.7	102	20.7	102	23.0	104
75	10.05	94	11.60	96	13.4	100	15.2	100	17.1	102	19.3	104	21.5	104	23.8	106
80	10.38	96	12.07	98	13.9	102	15.7	103	17.7	104	19.9	106	22.2	106	24.6	106

MODEL F44AAB — 8° TRAJECTORY

A heavy-duty, high-capacity pivot sprinkler for low pressure operation. Because of the wide operating range of pressure and gallonage, only one model is required from the pivot point to the end gun. Competitive sprinklers require at least two models. Save inventory and cost.

HIGH CAPACITY. From a low of 2 gpm to over 20 gpm, fewer sprinklers are required and pivot package costs are reduced.

LOW PRESSURE. From 20 psi, the F44AAB operates over the widest pressure range of any sprinkler in its class. Save energy and cost.

SELECT FROM 2 NOZZLE TYPES:

1. Standard Nozzle (Model 3RN) w/ size range 1/8 to 19/64" (#16 to #38) — psi range 20 to 60 psi

*These products are no longer being produced and are not for sale. Information is provided for reference purposes only.

NOTE: Stated performance at **BASE PRESSURE.**

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

MODEL F43P — SINGLE NOZZLE — MAX. STREAM HT. IS 9' ABOVE NOZ. (3/16" NOZ. @ normal operating press.)

NOZ. PSI	5/32"		11/64"		3/16"		13/64"		7/32"		15/64"		1/4"		17/64"		9/32"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	3.52	85	4.24	88	5.00	90	5.90	91	6.85	93	7.8	94	8.9	95	10.0	96	11.2	97
30	3.85	89	4.64	92	5.50	95	6.50	98	7.55	100	8.6	101	9.8	102	11.0	103	12.3	104
35	4.16	92	5.02	95	5.96	98	7.05	101	8.20	104	9.3	105	10.6	106	11.9	107	13.3	108
40	4.45	94	5.37	97	6.38	100	7.55	103	8.80	106	10.0	107	11.4	109	12.8	111	14.3	112
45	4.72	95	5.70	99	6.78	102	8.00	105	9.35	108	10.6	110	12.1	112	13.6	114	15.2	116
50	4.98	96	6.01	100	7.16	104	8.45	107	9.90	110	11.2	112	12.8	114	14.3	116	16.0	119
55	5.22	97	6.30	101	7.52	106	8.85	109	10.40	112	11.7	114	13.4	116	15.0	118	16.8	122
60	5.45	98	6.57	102	7.85	107	9.25	110	10.75	113	12.2	116	13.9	118	15.6	120	17.5	124
65	5.68	99	6.83	103	8.18	108	9.60	111	11.10	114	12.7	117	14.5	120	16.2	122	18.1	126
70	5.90	100	7.09	104	8.50	109	9.95	112	11.40	115	13.2	118	15.0	121	16.8	124	18.7	128
75	6.11	101	7.34	105	8.80	110	10.25	113	11.70	116	13.6	119	15.5	122	17.3	125	19.2	129
80	6.30	102	7.58	106	9.09	111	10.50	114	12.00	117	14.0	120	16.0	123	17.8	126	19.7	130

MODEL F43PV — SINGLE NOZZLE W/ VANE — MAX. STREAM HT. IS 9' ABOVE NOZ. (3/16" NOZ. @ normal operating press.)

NOZ. PSI	5/32"		11/64"		3/16"		13/64"		7/32"		15/64"		1/4"		17/64"		9/32"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
40	4.45	100	5.37	103	6.38	105	7.55	109	8.80	112	10.0	115	11.4	119	12.8	120	14.3	122
45	4.72	101	5.70	105	6.78	107	8.00	111	9.35	116	10.6	119	12.1	123	13.6	124	15.2	126
50	4.98	102	6.01	106	7.16	109	8.45	113	9.90	119	11.2	122	12.8	126	14.3	128	16.0	130
55	5.22	103	6.30	107	7.52	110	8.85	115	10.40	121	11.7	124	13.4	128	15.0	131	16.8	134
60	5.45	104	6.57	108	7.85	111	9.25	116	10.75	123	12.2	126	13.9	130	15.6	134	17.5	138
65	5.68	105	6.83	109	8.18	112	9.60	117	11.10	124	12.7	128	14.5	132	16.2	137	18.1	141
70	5.90	106	7.09	110	8.50	113	9.95	118	11.40	125	13.2	130	15.0	134	16.8	139	18.7	144
75	6.11	107	7.34	111	8.80	114	10.25	119	11.70	126	13.6	131	15.5	136	17.3	141	19.2	146
80	6.30	108	7.58	112	9.09	115	10.50	120	12.00	127	14.0	132	16.0	138	17.8	143	19.7	148

MODEL F43 — TWO NOZZLES — MAX. STREAM HT. IS 9' ABOVE NOZ. (3/16" NOZ. @ normal operating press.)

NOZ. PSI	5/32" x 3/32"		11/64" x 3/32"		3/16" x 3/32"		3/16" x 1/8" Noz.		13/64" x 1/8"		7/32" x 1/8" Noz.		15/64" x 1/8"		1/4" x 1/8"		17/64" x 1/8"		9/32" x 1/8"	
	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.	GPM	DIA. FT.
25	4.83	85	5.55	88	6.31	90	7.40	90	8.30	91	9.25	93	10.2	94	11.3	95	12.5	96	13.6	97
30	5.28	89	6.07	92	6.93	95	8.15	95	9.15	98	10.20	100	11.2	101	12.4	102	13.7	103	14.9	104
35	5.71	92	6.57	95	7.51	98	8.83	98	9.93	101	11.10	103	12.1	105	13.4	106	14.8	107	16.2	108
40	6.11	94	7.03	97	8.03	100	9.46	100	10.65	103	11.90	106	13.0	107	14.4	109	15.9	111	17.4	112
45	6.48	95	7.46	99	8.53	102	10.05	102	11.30	105	12.65	108	13.8	110	15.3	112	16.8	114	18.5	116
50	6.82	96	7.87	100	9.00	104	10.60	104	11.90	107	13.35	110	14.6	112	16.1	114	17.7	116	19.5	119
55	7.15	97	8.25	101	9.45	106	11.10	106	12.50	109	14.00	112	15.3	114	16.9	116	18.6	118	20.4	122
60	7.47	98	8.60	102	9.86	107	11.60	107	13.00	110	14.50	113	16.0	116	17.7	118	19.4	120	21.3	124
65	7.78	99	8.93	103	10.27	108	12.10	108	13.50	111	15.00	114	16.6	117	18.4	120	20.1	122	22.2	126
70	8.08	100	9.25	104	10.66	109	12.50	109	14.00	112	15.45	115	17.2	118	19.0	121	20.8	124	22.9	128
75	8.37	101	9.56	105	11.02	110	12.90	110	14.40	113	15.90	116	17.7	119	19.6	122	21.5	125	23.6	129
80	8.65	102	9.87	106	11.36	111	13.25	111	14.80	114	16.30	117	18.2	120	20.2	123	22.1	126	24.3	130

NOTE: Stated performance at **NOZZLE PRESSURE.**

PLEASE REFER TO "WARRANTY AND DISCLAIMER" STATEMENT ON PAGE 16

MODEL F70AP — (Data gathered from sprinkler on 12' riser — no wind)

BASE PSI	7/32"		1/4"		9/32"		19/64"		5/16"		21/64"		11/32"		23/64"		3/8"		13/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	7.66	45	9.96	47	12.4	49	13.9	50	15.8	51	17.0	52	18.5	53	20.1	54	21.8	55	25.3	57
40	8.85	48	11.5	50	14.3	52	16.0	53	18.2	54	19.6	55	21.4	56	23.2	57	25.2	58	29.2	60
50	9.80	50	12.8	52	16.1	55	17.8	56	20.2	57	21.8	58	23.9	59	25.9	60	28.1	61	32.7	63
60	10.8	52	14.1	54	17.8	57	19.7	58	22.2	59	23.9	60	26.1	61	28.3	62	30.8	64	36.0	65
70	11.7	53	15.3	56	19.2	59	21.2	60	23.8	61	25.7	62	28.2	64	30.5	65	33.2	66	39.1	68
80	12.5	55	16.3	58	20.5	60	22.7	62	25.4	63	27.5	64	30.1	65	32.6	66	35.5	67	41.8	70

MODEL F70APV — (Data gathered from sprinkler on 12' riser — no wind)

BASE PSI	7/32"		1/4"		9/32"		19/64"		5/16"		21/64"		11/32"		23/64"		3/8"		13/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	7.66	55	9.96	58	12.4	60	13.7	60	15.3	61	16.5	61	18.0	62	19.6	63	21.0	64	23.9	66
40	8.85	58	11.5	61	14.3	64	15.8	64	17.7	65	19.1	65	20.8	65	22.6	67	24.3	68	27.6	70
50	9.80	61	12.8	64	16.0	67	17.7	69	19.7	69	21.4	70	23.3	70	25.2	72	27.0	73	30.8	77
60	10.8	64	14.0	67	17.6	70	19.4	71	21.6	73	23.3	74	25.5	75	27.5	77	29.4	78	33.8	80
70	11.7	66	15.1	69	19.0	72	20.9	74	23.3	75	25.3	77	27.6	78	29.7	79	31.9	80	36.5	83
80	12.5	68	16.1	71	20.3	74	22.4	76	24.9	78	27.0	79	29.5	80	31.7	82	34.1	83	39.0	85

MODEL F70P — (Sprinkler tested at 35" nozzle height — no wind)

BASE PSI	7/32"		1/4"		9/32"		19/64"		5/16"		21/64"		11/32"		23/64"		3/8"		13/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	7.66	49	9.96	51	12.4	53	13.9	54	15.8	55	17.0	56	18.5	57	20.1	58	21.8	59	25.3	60
40	8.85	53	11.5	55	14.3	57	16.0	58	18.2	59	19.6	60	21.4	61	23.2	62	25.2	63	29.2	65
50	9.80	56	12.8	59	16.1	61	17.8	62	20.2	63	21.8	64	23.9	65	25.9	66	28.1	67	32.7	69
60	10.8	59	14.1	62	17.8	64	19.7	65	22.2	66	23.9	67	26.1	68	28.3	69	30.8	70	36.0	72
70	11.7	61	15.3	64	19.2	67	21.2	68	23.8	69	25.7	70	28.2	71	30.5	72	33.2	73	39.1	75
80	12.5	64	16.3	67	20.5	69	22.7	70	25.4	72	27.5	73	30.1	74	32.6	75	35.5	76	41.8	78

MODEL F70PV — (Sprinkler tested at 35" nozzle height — no wind)

BASE PSI	7/32"		1/4"		9/32"		19/64"		5/16"		21/64"		11/32"		23/64"		3/8"		13/32"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	7.66	51	9.96	53	12.4	56	13.7	57	15.3	58	16.5	59	18.0	60	19.6	61	21.0	62	23.9	64
40	8.85	55	11.5	58	14.3	61	15.8	62	17.7	63	19.1	65	20.8	66	22.6	67	24.3	68	27.6	70
50	9.80	59	12.8	62	16.0	65	17.7	66	19.7	68	21.4	69	23.3	70	25.2	72	27.0	73	30.8	75
60	10.8	62	14.0	66	17.6	69	19.4	70	21.6	72	23.3	73	25.5	74	27.5	76	29.4	77	33.8	79
70	11.7	65	15.1	69	19.0	72	20.9	74	23.3	75	25.3	76	27.6	78	29.7	79	31.9	81	36.5	83
80	12.5	68	16.1	72	20.3	75	22.4	77	24.9	78	27.0	80	29.5	81	31.7	82	34.1	84	39.0	86

NOTE: The F70A, F70AV, F70, and F70P are available with secondary nozzle sizes of 7/64" to 5/16" Consult NIC for double nozzle performance information.

NOTE: Stated performance at **BASE PRESSURE**.

MODEL F80AP — (Data gathered from sprinkler on 12' riser — no wind)

BASE PSI	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		19/32"		5/8"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
40	21.8	61	26.0	62	30.5	64	34.5	66	39.9	68	45.0	69	50.7	71	57.0	72	62.9	73	69.0	75
50	24.6	64	29.1	66	34.1	68	38.9	70	44.7	71	50.5	73	56.8	75	63.4	76	70.4	78	77.4	79
60	27.0	67	32.1	69	37.6	71	43.0	73	49.3	75	55.7	76	62.5	78	70.0	80	77.3	81	85.4	83
70	29.0	69	34.8	72	40.7	74	46.7	76	53.2	78	60.4	79	67.7	81	75.8	83	83.8	84	92.8	86
80	31.0	72	37.3	74	43.7	76	50.0	78	57.0	80	64.7	82	72.5	84	81.3	85	89.9	87	99.2	89
90	33.2	74	39.4	76	46.2	78	52.9	81	60.8	82	68.5	84	76.8	86	86.3	88	95.3	90	104	91
100	35.0	76	41.5	78	48.8	80	55.8	83	64.0	85	72.6	87	81.0	88	90.9	90	101	92	110	94

MODEL F80APV — (Data gathered from sprinkler on 12' riser — no wind)

BASE PSI	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		19/32"		5/8"	
	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
40	21.8	66	26.0	68	30.4	71	34.4	73	39.4	76	44.6	78	50.2	80	56.2	82	62.2	84	68.1	86
50	24.2	71	28.8	74	33.8	76	38.5	79	44.1	81	50.1	84	56.3	86	62.8	89	69.5	91	76.2	93
60	26.5	75	31.5	78	37.2	81	42.5	84	48.6	87	55.1	89	61.8	92	69.0	94	76.4	97	83.9	99
70	28.6	79	34.0	82	40.1	86	46.0	89	52.5	91	59.6	94	66.9	97	74.7	99	82.6	102	90.6	104
80	30.6	83	36.4	86	42.8	89	49.3	93	56.2	96	63.8	98	71.7	101	80.0	104	88.4	107	96.9	109
90	32.6	86	38.6	90	45.4	93	52.3	96	60.0	100	67.6	102	75.9	105	85.0	108	93.7	111	102	113
100	34.4	89	40.7	93	47.9	97	55.1	100	63.2	103	71.2	106	80.0	109	89.6	112	98.8	115	108	118

NOTE: The F80AP and F80APV are available with secondary nozzle sizes of 7/64" to 5/16". Consult NIC for double nozzle performance information.

NOTE: Stated performance at **BASE PRESSURE**.

PERFORMANCE NOTE

Sprinkler performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions, or other factors. Nelson Irrigation Corporation makes no representation regarding droplet conditions, uniformity, or application rates.

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