

NELSON®



MULTI-ARC™ Nozzles

Five different Multi-Arc™ nozzles provide a diversity of patterns and trajectories. One-piece filter screen and nozzle seat insures that debris will never reach the nozzle.

No more dry spots or flooding due to pattern alteration. Use of the filter screen allows installer to adjust water flow and diameter of coverage simply by turning the stainless steel nozzle screw. The Multi-Arc™ nozzles have adjustable arc patterns ranging from 25° to 360° and are color coded by radius for easy identification.

7170

- *Operating range:* 20-40 psi (1.4-2.0 bars)
- *Radius:* 7'
- *Trajectory:* 5°

7270

- *Operating range:* 20-40 psi (1.4-2.0 bars)
- *Radius:* 10'
- *Trajectory:* 10°

7370

- *Operating range:* 20-40 psi (1.4-2.0 bars)
- *Radius:* 12'
- *Trajectory:* 28°

7070

- *Operating range:* 20-40 psi (1.4-2.0 bars)
- *Radius:* 15'
- *Trajectory:* 28°

7470

- *Operating range:* 20-40 psi (1.4-2.0 bars)
- *Radius:* 17'
- *Trajectory:* 28°

7'-17'

MULTI-ARC™ Nozzles

Features

Adjustable arc settings from 25° to 360°

M.A.N.
nozzles

Optimal pressure 25 PSI
Maximum pressure 40 PSI
Discharge rate 0.2 - 5.5 GPM

Screen size: 0.15 x .015

Built-in diffuser screw allows radius reduction of up to 25%

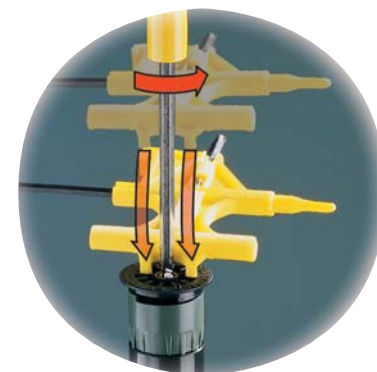
Vandal resistant adjustment mechanism

Debris resistant

Matched precipitation rates

NEW IN 2001:

Nelson's all-in-one wrench(976-52497) is used on Multi-Arc™ Nozzles (M.A.N.) to hold the arc position while adjusting the radius.



M.A.N. Nozzle Performance

Pressure PSI	Radius ft	Discharge GPM	Precipitation Rate		Nozzle Shape	Pressure Bar	Radius m	Discharge L/min	Discharge m ³ /hr	Precipitation Rate ¹	
			in/hr	mm/hr						in/hr	mm/hr
71707/Multi-Arc											
20	7.0	1.10	2.2	1.9	FULL (360°)	1.4	2.1	0.25	4.2	55.1	47.7
25	7.0	1.24	2.4	2.1		1.7	2.1	0.28	4.7	62.1	53.8
30	8.0	1.35	2.0	1.8		2.0	2.4	0.31	5.1	51.8	44.8
20	7.0	0.82	2.2	1.9	3/4 (270°)	1.4	2.1	0.19	3.1	54.7	47.4
25	7.0	0.92	2.4	2.1		1.7	2.1	0.21	3.5	61.4	53.2
30	8.0	1.02	2.1	1.8		2.0	2.4	0.23	3.9	52.1	45.2
20	7.0	0.76	2.2	1.9	2/3 (240°)	1.4	2.1	0.17	2.9	57.1	49.4
25	7.0	0.86	2.5	2.2		1.7	2.1	0.20	3.3	64.6	55.9
30	8.0	0.93	2.1	1.8		2.0	2.4	0.21	3.5	53.5	46.3
20	7.0	0.57	2.2	1.9	1/2 (180°)	1.4	2.1	0.13	2.2	57.1	49.4
25	7.0	0.65	2.6	2.2		1.7	2.1	0.15	2.5	65.1	56.4
30	8.0	0.70	2.1	1.8		2.0	2.4	0.16	2.6	53.7	46.5
20	7.0	0.37	2.2	1.9	1/3 (120°)	1.4	2.1	0.08	1.4	55.6	48.1
25	7.0	0.43	2.5	2.2		1.7	2.1	0.10	1.6	64.6	55.9
30	8.0	0.46	2.1	1.8		2.0	2.4	0.10	1.7	52.9	45.8
20	7.0	0.30	2.4	2.0	1/4 (90°)	1.4	2.1	0.07	1.1	60.1	52.0
25	7.0	0.35	2.8	2.4		1.7	2.1	0.08	1.3	70.1	60.7
30	8.0	0.38	2.3	2.0		2.0	2.4	0.09	1.4	58.3	50.5
727010/Multi-Arc											
20	10.0	1.27	1.2	1.1	FULL (360°)	1.4	3.0	0.29	4.8	31.2	27.0
25	10.0	1.43	1.4	1.2		1.7	3.0	0.32	5.4	35.1	30.4
30	11.0	1.57	1.3	1.1		2.0	3.4	0.36	5.9	31.8	27.6
20	10.0	0.97	1.2	1.1	3/4 (270°)	1.4	3.0	0.22	3.7	31.7	27.5
25	10.0	1.08	1.4	1.2		1.7	3.0	0.25	4.1	35.3	30.6
30	11.0	1.19	1.3	1.1		2.0	3.4	0.27	4.5	32.2	27.9
20	10.0	0.93	1.3	1.2	2/3 (240°)	1.4	3.0	0.21	3.5	34.3	29.7
25	10.0	1.04	1.5	1.3		1.7	3.0	0.24	3.9	38.2	33.1
30	11.0	1.14	1.4	1.2		2.0	3.4	0.26	4.3	34.8	30.1
20	10.0	0.70	1.4	1.2	1/2 (180°)	1.4	3.0	0.16	2.6	34.4	29.7
25	10.0	0.78	1.5	1.3		1.7	3.0	0.18	3.0	38.3	33.1
30	11.0	0.86	1.4	1.2		2.0	3.4	0.20	3.3	34.9	30.2
20	10.0	0.46	1.3	1.2	1/3 (120°)	1.4	3.0	0.10	1.7	34.0	29.5
25	10.0	0.51	1.5	1.3		1.7	3.0	0.12	1.9	37.9	32.8
30	11.0	0.57	1.4	1.2		2.0	3.4	0.13	2.1	34.5	29.9
20	10.0	0.40	1.5	1.3	1/4 (90°)	1.4	3.0	0.09	1.5	39.3	34.0
25	10.0	0.48	1.9	1.6		1.7	3.0	0.11	1.8	47.1	40.8
30	11.0	0.53	1.7	1.5		2.0	3.4	0.12	2.0	43.0	37.2
737012/Multi-Arc											
20	12.0	1.73	1.2	1.0	FULL (360°)	1.4	3.7	0.39	6.5	29.5	25.5
25	12.0	1.93	1.3	1.1		1.7	3.7	0.44	7.3	32.9	28.5
30	13.0	2.12	1.2	1.0		2.0	4.0	0.48	8.0	30.8	26.7
20	12.0	1.36	1.2	1.1	3/4 (270°)	1.4	3.7	0.31	5.1	30.9	26.8
25	12.0	1.53	1.4	1.2		1.7	3.7	0.35	5.8	34.8	30.1
30	13.0	1.68	1.3	1.1		2.0	4.0	0.38	6.4	32.5	28.2
20	12.0	1.26	1.3	1.1	2/3 (240°)	1.4	3.7	0.29	4.8	32.3	28.0
25	12.0	1.42	1.4	1.2		1.7	3.7	0.32	5.4	36.4	31.5
30	13.0	1.57	1.3	1.2		2.0	4.0	0.36	5.9	34.2	29.6
20	12.0	0.95	1.3	1.1	1/2 (180°)	1.4	3.7	0.22	3.6	32.4	28.0
25	12.0	1.07	1.4	1.2		1.7	3.7	0.24	4.0	36.5	31.6
30	13.0	1.18	1.3	1.2		2.0	4.0	0.27	4.5	34.3	29.7
20	12.0	0.63	1.3	1.1	1/3 (120°)	1.4	3.7	0.14	2.4	32.1	27.8
25	12.0	0.71	1.4	1.2		1.7	3.7	0.16	2.7	36.1	31.3
30	13.0	0.78	1.3	1.2		2.0	4.0	0.18	2.9	33.9	29.4
20	12.0	0.50	1.3	1.2	1/4 (90°)	1.4	3.7	0.11	1.9	34.1	29.5
25	12.0	0.56	1.5	1.3		1.7	3.7	0.13	2.1	38.2	33.1
30	13.0	0.67	1.5	1.3		2.0	4.0	0.15	2.5	38.9	33.7
707015/Multi-Arc											
20	14.0	1.73	0.9	0.7	FULL (360°)	1.4	4.3	0.39	6.5	21.7	18.8
25	15.0	1.93	0.8	0.7		1.7	4.6	0.44	7.3	21.0	18.2
30	16.0	2.12	0.8	0.7		2.0	4.9	0.48	8.0	20.3	17.6
20	14.0	1.36	0.9	0.8	3/4 (270°)	1.4	4.3	0.31	5.1	22.7	19.7
25	15.0	1.53	0.9	0.8		1.7	4.6	0.35	5.8	22.2	19.3
30	16.0	1.68	0.8	0.7		2.0	4.9	0.38	6.4	21.5	18.6
20	14.0	1.26	0.9	0.8	2/3 (240°)	1.4	4.3	0.29	4.8	23.7	20.5
25	15.0	1.42	0.9	0.8		1.7	4.6	0.32	5.4	23.3	20.2
30	16.0	1.57	0.9	0.8		2.0	4.9	0.36	5.9	22.6	19.5
20	14.0	0.95	0.9	0.8	1/2 (180°)	1.4	4.3	0.22	3.6	23.8	20.6
25	15.0	1.07	0.9	0.8		1.7	4.6	0.24	4.0	23.3	20.2
30	16.0	1.18	0.9	0.8		2.0	4.9	0.27	4.5	22.6	19.6
20	14.0	0.63	0.9	0.8	1/3 (120°)	1.4	4.3	0.14	2.4	23.5	20.4
25	15.0	0.71	0.9	0.8		1.7	4.6	0.16	2.7	23.1	20.0
30	16.0	0.78	0.9	0.8		2.0	4.9	0.18	2.9	22.4	19.4
20	14.0	0.50	1.0	0.9	1/4 (90°)	1.4	4.3	0.11	1.9	25.0	21.7
25	15.0	0.56	1.0	0.8		1.7	4.6	0.13	2.1	24.4	21.2
30	16.0	0.67	1.0	0.9		2.0	4.9	0.15	2.5	25.7	22.2
747017/Multi-Arc											
20	16.0	3.87	1.5	1.3	FULL (360°)	1.4	4.9	0.88	14.6	37.1	32.1
25	17.0	4.50	1.5	1.3		1.7	5.2	1.02	17.0	38.2	33.1
30	18.0	4.82	1.4	1.2		2.0	5.5	1.09	18.2	36.5	31.6
20	16.0	2.90	1.5	1.3	3/4 (270°)	1.4	4.9	0.66	11.0	37.1	32.1
25	17.0	3.38	1.5	1.3		1.7	5.2	0.77	12.8	38.3	33.1
30	18.0	3.61	1.4	1.2		2.0	5.5	0.82	13.7	36.5	31.6
20	16.0	2.58	1.5	1.3	2/3 (240°)	1.4	4.9	0.59	9.8	37.1	32.1
25	17.0	3.00	1.5	1.3		1.7	5.2	0.68	11.4	38.2	33.1
30	18.0	3.21	1.4	1.2		2.0	5.5	0.73	12.1	36.5	31.6
20	16.0	1.94	1.5	1.3	1/2 (180°)	1.4	4.9	0.44	7.3	37.2	32.2
25	17.0	2.25	1.5	1.3		1.7	5.2	0.51	8.5	38.2	33.1
30	18.0	2.41	1.4	1.2		2.0	5.5	0.55	9.1	36.5	31.6
20	16.0	1.29	1.5	1.3	1/3 (120°)	1.4	4.9	0.29	4.9	37.1	32.1
25	17.0	1.50	1.5	1.3		1.7	5.2	0.34	5.7	38.2	33.1
30	18.0	1.61	1.4	1.2		2.0	5.5	0.37	6.1	36.6	31.7
20	16.0	0.97	1.5	1.3	1/4 (90°)	1.4	4.9	0.22	3.7	37.2	32.2
25	17.0	1.13	1.5	1.3		1.7	5.2	0.26	4.3	38.4	33.2
30	18.0	1.20	1.4	1.2		2.0	5.5	0.27	4.5	36.4	31.5

¹Precipitation rates for square and triangular spacing calculated at 50% of diameter for half-circle operation. Assumes zero wind for precipitation and radius. Adjust for local conditions.