the original BIG GUN® SPRINKLER

RING NOZZLE PERFORMANCE (U.S. UNITS)

Flow and diameter (feet) information at various pressures with different nozzle sizes.

100 RING NOZZLE — 24° TRAJECTORY

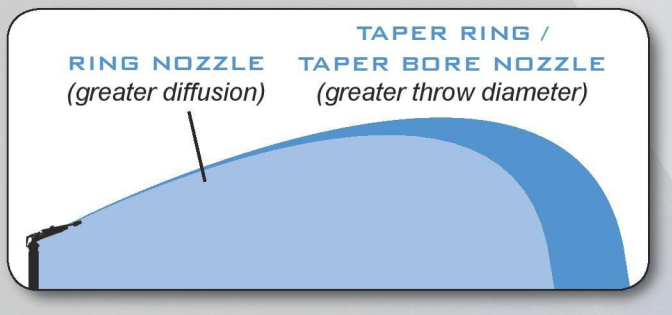
	0.71"		0.77"		0.81"		0.86"		0.89"		0.93"		0.96"	
PSI	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT
40	66	208	78	212	91	215	103	224	118	235	134	238	152	242
50	74	220	88	225	100	230	115	240	129	250	150	255	167	260
60	81	235	96	240	110	245	125	260	141	270	164	275	183	280
70	88	245	104	250	118	260	135	275	152	290	177	295	298	300
80	94	255	111	265	127	275	145	285	163	300	189	305	211	315
90	99	265	117	275	134	285	154	295	173	310	201	315	224	325
100	105	270	124	280	142	295	162	305	182	320	212	325	236	335
110	110	275	130	290	149	305	170	315	191	325	222	335	248	345

150 RING NOZZLE — 24° TRAJECTORY

	0.86"		0.97"		1.08"		1.18"		1.26"		1.34"		1.41"	
PSI	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT
50	100	245	130	265	165	285	205	300	255	320	300	335	350	350
60	110	260	143	280	182	300	225	315	275	335	330	350	385	365
70	120	270	155	290	197	310	245	330	295	350	355	365	415	380
80	128	280	165	300	210	320	260	340	315	360	380	380	445	395
90	135	290	175	310	223	330	275	350	335	370	405	390	475	405
100	143	300	185	320	235	340	290	360	355	380	425	400	500	415
110	150	310	195	330	247	350	305	370	370	390	445	410	525	425
120	157	315	204	335	258	360	320	380	385	400	465	420	545	435

200 RING NOZZLE — 27° TRAJECTORY

	1.29"		1.46"		1.56"		1.66"		1.74"		1.83"		1.93"	
PSI	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT	GPM	DIAM. FT
50	230	325	300	355	350	370	410	390	470	405	535	420	640	435
60	250	340	330	370	385	390	445	410	515	425	585	440	695	455
70	270	355	355	385	415	405	480	425	555	440	630	455	755	475
80	290	370	380	400	445	420	515	440	590	455	675	470	805	490
90	310	380	405	415	475	435	545	455	625	470	715	485	855	505
100	325	390	425	425	500	445	575	465	660	480	755	500	900	520
110	340	400	445	435	525	455	605	475	695	490	790	510	945	535
120	355	410	465	445	545	465	630	485	725	500	825	520	985	545
130	370	415	485	450	565	470	655	490	755	505	860	525	1025	550



Diameters are based on a 24° trajectory for the 100 and 150 series and a 27° trajectory for the 200 series. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Use of the wedge insert to modify trajectory will affect distance. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein.

Additional nozzle options and sizes available.

RING NOZZLE SET. The Ring Nozzle Set is an easy and economic way of changing nozzles to match the available water flow and pressure. These are commonly used where the available water flow and pressure are variable and or when the Big Gun is shifted between various water sources with different capacities. The abrupt orifice of the nozzle is less efficient so the radius of throw is less than that achieved with an equivalent diameter Taper Bore nozzle. The abrupt orifice of the Ring Nozzle does break the stream of water up more, which can be an advantage in low pressure applications. The Ring Nozzle comes with a set of rings.

the original BIG GUN® SPRINKLER

RING NOZZLE PERFORMANCE (METRIC)

Flow and diameter (meters) information at various pressures with different nozzle sizes.

100 RING NOZZLE — 24° TRAJECTORY

	18.0 mm			19.5 mm			20.6 mm			21.8 mm			22.7 mm			23.6 mm			24.5 mm		
Kg/cm²	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M
3.5	4.66	16.7	67.0	5.58	20.0	69.0	6.36	22.9	70.0	7.24	26.1	73.0	8.10	29.2	76.0	9.45	34.0	78.0	10.6	38.0	79.0
4.0	4.98	17.9	70.6	5.96	21.4	71.8	6.80	24.5	73.6	7.74	27.9	77.3	8.66	31.2	80.3	10.1	36.4	82.3	11.3	40.7	83.3
5.0	5.57	20.0	75.4	6.66	24.0	76.7	7.60	27.4	79.7	8.65	31.2	84.4	9.68	34.8	88.4	11.3	40.7	90.4	12.6	45.5	91.7
6.0	6.10	21.9	79.7	7.30	26.2	82.7	8.33	30.0	85.7	9.48	34.1	88.7	10.6	38.2	91.3	12.4	44.6	94.7	13.8	49.8	97.7
7.0	6.59	23.7	82.0	7.88	28.3	85.0	9.00	32.3	90.0	10.2	36.9	93.0	11.5	41.2	98.0	13.4	48.1	99.0	15.0	53.8	102
8.0	7.04	25.3	84.9	8.43	30.3	89.3	9.62	34.6	94.3	11.0	39.4	97.3	12.3	44.1	99.4	14.3	51.5	103	16.0	57.5	106

150 RING NOZZLE — 24° TRAJECTORY

	21.8 mm			24.6 mm			27.4 mm			30.0 mm			32.0 mm			34.0 mm			35.8 mm		
Kg/cm²	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M
3.5	6.41	23.1	75.0	8.32	30.0	81.0	10.5	37.9	87.0	13.0	46.8	91.0	15.9	57.2	98.0	18.9	68.1	102	22.2	80.0	107
4.0	6.85	24.7	78.0	8.89	32.0	84.0	11.3	40.5	90.0	13.9	50.0	95.0	17.0	61.1	101	20.2	72.8	106	23.7	85.5	110
5.0	7.66	27.6	82.4	9.94	35.8	88.4	12.6	45.3	95.4	15.5	56.0	101	19.0	68.4	107	22.6	81.4	112	26.5	95.6	117
6.0	8.39	30.2	86.7	10.9	39.2	93.3	13.8	49.7	100	17.0	61.3	106	20.8	74.9	112	24.8	89.1	118	29.1	105	122
7.0	9.06	32.6	91.5	11.8	42.4	98.0	14.9	53.6	104	18.4	66.2	110	22.5	80.9	116	26.7	96.3	122	31.4	113	127
8.0	9.69	34.9	95.4	12.6	45.3	101	15.9	57.3	108	19.7	70.8	114	24.0	86.5	120	28.6	103	126	33.6	121	131
9.0	10.3	37.0	97.0	13.3	48.0	103	16.9	60.8	113	20.9	75.1	119	25.5	91.7	125	30.3	109	130	35.6	128	135

200 RING NOZZLE — 27° TRAJECTORY

	32.8 mm			37.1 mm			39.6 mm			42.2 mm			44.2 mm			46.5 mm			49.0 mm		
Kg/cm²	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M	L/S	M³/H	DIAM. M
3.5	14.5	52.3	99	18.9	68.1	108	22.2	80.0	113	25.8	92.7	119	30.1	108	123	33.7	121	128	40.3	145	133
4.0	15.5	55.9	103	20.2	72.8	116	23.8	85.5	117	27.5	99.1	123	32.2	116	128	36.1	103	132	43.1	155	137
5.0	17.4	62.5	109	22.6	81.4	118	26.6	95.6	124	30.8	110.8	131	36.0	130	135	40.3	145	140	48.2	174	146
6.0	19.0	68.5	115	24.8	89.1	125	29.1	105	131	33.7	121	137	39.4	142	141	44.2	159	146	52.8	190	152
7.0	20.5	74.0	119	26.7	96.3	130	31.4	113	136	36.4	131	142	42.6	153	146	47.7	172	152	57.1	205	159
8.0	22.0	79.1	123	28.6	103	134	33.6	121	140	39.0	140	146	45.5	164	150	51.0	184	157	61.0	220	164
9.0	23.3	83.9	127	30.3	109	137	35.6	128	143	41.3	149	149	48.3	174	154	54.1	195	160	64.7	233	168

See opposite side for performance notes and Ring Nozzle description.

ABI irrigation

WARRANTY AND DISCLAIMER: Nelson Big Gun® Sprinklers are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty, nor to make any representations or warranty not contained herein.

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