

the original **BIG GUN®** SPRINKLER

TAPER RING NOZZLE PERFORMANCE (U.S. UNITS)

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

75 TAPER RING NOZZLE — 24° TRAJECTORY

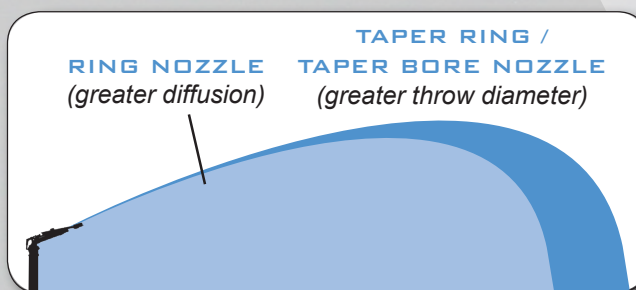
PSI	0.4"		0.45"		0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
25	—	—	—	—	—	—	42	146	50	155	59	161	69	167	80	174	91	182
30	—	—	—	—	37	158	45	158	55	165	64	172	75	182	87	187	99	192
35	—	—	32	154	40	164	49	172	59	178	69	191	81	196	93	202	106	208
40	27	149	35	160	43	171	52	180	63	190	74	198	87	204	98	213	112	221
45	29	155	37	167	46	180	56	189	67	198	79	206	91	214	104	223	118	230
50	30	161	39	174	48	186	59	195	70	203	83	212	95	220	109	230	123	237
55	32	165	41	179	50	193	62	203	74	213	87	221	100	230	115	239	130	247
60	33	169	42	184	53	198	64	208	77	220	91	228	104	237	120	245	136	254
65	35	172	44	189	55	205	67	216	80	227	95	237	109	247	125	254	142	263
70	36	175	45	194	57	210	69	221	83	232	98	243	113	254	129	260	147	270
75	37	179	47	201	59	217	72	228	86	239	101	250	117	261	134	268	153	277
80	39	182	49	207	61	222	74	234	89	244	105	256	121	266	138	274	158	283

100 TAPER RING NOZZLE — 24° TRAJECTORY

PSI	16 mm		17 mm		18 mm		19 mm		20 mm		21 mm		22 mm		23 mm		24 mm	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
40	67	212	76	219	86	225	98	233	110	242	125	250	136	254	151	259	166	275
50	75	224	85	231	97	240	110	250	123	258	139	266	152	271	169	279	185	288
60	83	239	94	246	106	254	120	264	135	273	153	281	167	286	186	294	203	303
70	89	249	101	259	114	268	130	277	146	286	165	295	180	300	200	309	219	320
80	95	259	108	269	122	278	139	288	156	297	176	306	193	313	214	324	235	336
90	101	268	115	278	130	289	147	299	166	308	187	317	204	324	227	334	249	345
100	107	278	121	288	137	298	155	308	175	318	197	327	216	334	240	344	262	355
110	112	288	127	298	143	308	163	317	183	326	207	336	226	342	251	353	275	364

150 TAPER RING NOZZLE — 24° TRAJECTORY

PSI	22 mm		24 mm		26 mm		28 mm		30 mm		32 mm		34 mm	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
50	135	270	164	286	196	302	233	318	274	333	319	347	369	358
60	148	284	179	301	214	317	255	334	301	351	350	367	405	378
70	159	299	194	315	231	331	276	349	325	366	378	382	437	393
80	170	310	207	330	247	346	295	364	347	381	404	397	467	409
90	181	320	220	340	262	357	313	377	368	396	429	411	495	424
100	191	329	231	350	277	366	330	386	388	405	452	423	522	436
110	200	339	243	359	290	376	346	397	407	416	474	433	548	446
120	209	349	253	369	303	386	361	407	425	426	495	443	572	457



Diameters are based on a 24° trajectory. 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. Go to www.nelsonirrigation.com or contact the factory for nozzle performance.

TAPER RING NOZZLE. This nozzle combines the changeability of a Ring Nozzle with some of the efficiency of a Taper Bore Nozzle. When ordering the Taper Ring Nozzle, specify the size as only one Taper Ring comes with the nozzle body and cap. Additional taper ring sizes can be purchased. *The Taper Ring Nozzle should not be used with the Nozzle Valve End Gun.*

the original **BIG GUN®** SPRINKLER

TAPER RING NOZZLE PERFORMANCE (METRIC)

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

75 TAPER RING NOZZLE — 24° TRAJECTORY

Kg/cm ²	10.2 mm			11.4 mm			12.7 mm			14.0 mm			15.2 mm			16.5 mm			17.8 mm			19.1 mm			20.3 mm		
	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M
1.75	—	—	—	—	—	—	—	—	—	2.64	9.5	44	3.17	11.4	48	3.72	13.4	49	4.30	15.5	51	4.91	17.7	54	5.59	20.1	56
2.00	—	—	—	—	—	—	2.33	8.4	48	2.82	10.2	48	3.39	12.2	51	3.98	14.3	52	4.59	16.5	56	5.25	18.9	58	5.97	21.5	59
2.50	—	—	—	2.11	7.6	47	2.61	9.4	50	3.16	11.4	53	3.79	13.6	55	4.45	16.0	58	5.14	18.5	60	5.87	21.1	62	6.68	24.0	64
3.00	1.83	6.6	47	2.32	8.3	50	2.86	10.3	53	3.46	12.4	57	4.15	14.9	59	4.88	17.6	61	5.63	20.3	63	6.43	23.1	66	7.32	26.3	69
3.50	1.98	7.1	49	2.50	9.0	52	3.09	11.1	57	3.74	13.4	60	4.48	16.1	62	5.27	19.0	64	6.08	21.9	67	6.95	25.0	70	7.90	28.4	73
4.00	2.11	7.6	50	2.67	9.6	54	3.30	11.9	59	3.99	14.4	62	4.79	17.2	65	5.63	20.3	67	6.50	23.4	71	7.43	26.7	73	8.45	30.4	76
4.50	2.24	8.1	52	2.84	10.2	57	3.50	12.6	62	4.24	15.2	66	5.08	18.3	68	5.97	21.5	71	6.89	24.8	75	7.88	28.4	78	8.96	32.3	80
5.00	2.36	8.5	53	2.99	10.8	60	3.69	13.3	64	4.46	16.1	68	5.35	19.3	70	6.30	22.7	74	7.26	26.1	78	8.30	29.9	80	9.45	34.0	84
5.50	2.48	8.9	55	3.13	11.3	62	3.87	13.9	66	4.68	16.9	70	5.61	20.2	73	6.60	23.8	77	7.62	27.4	81	8.71	31.3	83	9.90	35.7	86
6.00	2.59	9.3	56	3.27	11.8	63	4.04	14.6	68	4.89	17.6	72	5.86	21.1	74	6.90	24.8	79	7.96	28.6	84	9.09	32.7	85	10.3	37.2	87

100 TAPER RING NOZZLE — 24° TRAJECTORY

Kg/cm ²	16 mm			17 mm			18 mm			19 mm			20 mm			21 mm			22 mm			23 mm			24 mm		
	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M
3.5	4.83	17.4	69	5.47	19.7	71	6.22	22.4	74	7.06	25.4	77	7.89	28.4	79	8.92	32.1	82	9.75	35.1	83	10.9	39.1	86	11.9	42.7	89
4.0	5.19	18.7	72	5.89	21.2	75	6.64	23.9	77	7.53	27.1	80	8.44	30.4	83	9.58	34.5	85	10.4	37.6	87	11.6	41.9	89	12.7	45.8	92
4.5	5.47	19.7	75	6.22	22.4	78	7.03	25.3	80	7.97	28.7	83	8.97	32.3	86	10.1	36.5	88	11.1	39.9	90	12.3	44.3	93	13.5	48.5	96
5.0	5.78	20.8	77	6.56	23.6	80	7.39	26.6	83	8.42	30.3	86	9.47	34.1	88	10.7	38.5	91	11.7	42.0	93	13.0	46.7	96	14.2	51.2	99
5.5	6.06	21.8	79	6.86	24.7	82	7.78	28.0	85	8.83	31.8	88	9.92	35.7	91	11.2	40.3	94	12.3	44.2	96	13.6	49.0	99	14.9	53.8	103
6.0	6.33	22.8	81	7.19	25.9	84	8.14	29.3	88	9.22	33.2	91	10.4	37.4	93	11.7	42.2	96	12.8	46.0	98	14.2	51.2	101	15.6	56.2	105
6.5	6.61	23.8	84	7.50	27.0	87	8.47	30.5	90	9.58	34.5	93	10.8	39.0	96	12.2	43.9	98	13.3	48.0	101	14.8	53.4	104	16.2	58.4	107
7.0	6.86	24.7	86	7.78	28.0	89	8.78	31.6	92	9.94	35.8	95	11.2	40.4	98	12.6	45.5	101	13.9	49.9	103	15.4	55.4	106	16.8	60.6	109
7.5	7.08	25.5	88	8.06	29.0	91	9.06	32.6	94	10.3	37.2	97	11.6	41.7	100	13.1	47.2	103	14.3	51.5	104	15.9	57.2	108	17.4	62.7	111

150 TAPER RING NOZZLE — 24° TRAJECTORY

Kg/cm ²	22 mm			24 mm			26 mm			28 mm			30 mm			32 mm			34 mm								
	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M	L/S	M ³ /H	DIAM. M
3.5	8.67	31.2	83	10.5	37.9	88	12.6	45.2	93	14.9	53.8	98	17.6	63.3	102	20.5	73.7	107	23.7	85.3	110	23.7	85.3	110	25.4	91.3	115
4.0	9.28	33.4	86	11.2	40.4	91	13.4	48.3	96	16.0	57.5	101	18.9	67.9	107	21.9	78.9	111	25.4	91.3	115	25.4	91.3	115	26.9	96.8	118
4.5	9.81	35.3	90	11.9	42.9	95	14.2	51.1	99	16.9	61.0	105	20.0	71.9	110	23.2	83.7	115	26.9	96.8	118	26.9	96.8	118	28.3	102	122
5.0	10.3	37.1	92	12.6	45.2	98	15.0	53.9	103	17.9	64.4	108	21.1	75.8	113	24.5	88.2	118	28.3	102	122	28.3	102	122	29.7	107	125
5.5	10.8	38.9	95	13.2	47.4	101	15.7	56.6	106	18.8	67.6	111	22.1	79.5	117	25.7	92.5	122	29.7	107	125	29.7	107	125	31.1	112	129
6.0	11.3	40.8	97	13.8	49.6	103	16.4	59.1	108	19.6	70.6	114	23.1	83.0	120	26.9	96.7	125	31.1	112	129	31.1	112	129	32.2	116	131
6.5	11.8	42.5	99	14.3	51.5	106	17.1	61.6	110	20.4	73.5	117	24.0	86.4	122	28.1	101	128	32.2	116	131	32.2	116	131	33.6	121	134
7.0	12.2	44.1	101	14.8	53.4	108	17.8	64.0	113	21.2	76.2	119	24.9	89.6	125	28.9	104	130	33.6	121	134	33.6	121	134	34.7	125	136
7.5	12.7	45.6	104	15.4	55.4	110	18.4	66.1	115	21.9	78.9	121	25.8	92.8	127	30.0	108	132	34.7	125	136	34.7	125	136	35.8	129	139
8.0	13.1	47.1	106	15.9	57.1	112	19.0	68.3	117	22.6	81.4	124	26.6	95.8	129	31.1	112	135	35.8	129	139	35.8	129	139			

See opposite side for performance notes and Taper Ring Nozzle description.



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