ORIGINAL BIG GUN

PLASTIC TAPER RING NOZZLES FOR THE **100 SERIES BIG GUN®** SPRINKLERS

12469 CAP

12470-0XX NOZZLE
(XX = NOZZLE SIZE IN MM)

(12470-0127 = 12.7 MM NOZZLE)

12782 BODY

12700 100TR PLASTIC CAP + BODY

100 TAPER RING NOZZLE — 24° TRAJECTORY — **U.S. UNITS**

Pressure (PSI)	12.7 mm		14 mm		16 mm		17 mm		18 mm		19 mm		20 mm		21 mm		22 mm		23 mm		24 mm	
	0.50"		0.55"		0.63"		0.67"		0.71"		0.75"		0.79"		0.83"		0.87"		0.91"		0.95"	
	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)
40	43	94	53	98	67	106	76	110	86	113	98	117	110	121	125	125	136	127	151	130	166	138
50	48	99	59	105	75	112	85	116	97	120	110	125	123	129	139	133	152	136	169	140	185	144
60	53	107	65	112	83	120	94	123	106	127	120	132	135	137	153	141	167	143	186	147	203	152
70	57	111	70	117	89	125	101	130	114	134	130	139	146	143	165	148	180	150	200	155	219	160
80	61	114	75	121	95	130	108	135	122	139	139	144	156	149	176	153	193	157	214	162	235	168
90	65	119	80	125	101	134	115	139	130	145	147	150	166	154	187	159	204	162	227	167	249	173
100	69	124	84	130	107	139	121	144	137	149	155	154	175	159	197	164	216	167	240	172	262	178
110	72	129	88	135	112	144	127	149	143	154	163	159	183	163	207	168	226	171	251	177	275	182

100 TAPER RING NOZZLE — 24° TRAJECTORY — **METRIC UNITS**

Pressure (bar)	12.7 mm			14 mm			16 mm			17 mm			18 mm			19 mm			20 mm			21 mm			22 mm			23 mm			24 mm		
	0.50"			0.55"			0.63"			0.67"			0.71"			0.75"			0.79"			0.83"			0.87"			0.91"			0.95"		
	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)	L/S	M³/HR	RAD. (M)
2.75	2.7	9.7	28.5	3.3	12.0	30.0	4.2	15.2	32.5	4.8	17.3	33.5	5.4	19.6	34.5	6.2	22.3	35.5	6.9	24.9	37.0	7.9	28.3	38.0	8.6	30.8	38.5	9.5	34.3	39.5	10.4	37.6	41.5
3.0	2.8	10.2	29.0	3.5	12.5	30.5	4.4	15.9	33.0	5.0	18.0	34.0	5.7	20.5	35.0	6.5	23.2	36.5	7.2	26.1	38.0	8.2	29.5	39.0	9.0	32.2	39.5	9.9	35.8	40.5	10.9	39.3	42.5
3.5	3.1	11.0	30.5	3.8	13.5	32.0	4.8	17.2	34.5	5.4	19.5	35.5	6.1	22.1	37.0	7.0	25.1	38.0	7.8	28.2	39.5	8.9	31.9	40.5	9.7	34.8	41.5	10.7	38.7	42.5	11.8	42.4	44.5
4.0	3.3	11.8	31.5	4.0	14.5	33.5	5.1	18.4	36.0	5.8	20.9	37.0	6.6	23.6	38.5	7.5	26.8	40.0	8.4	30.1	41.0	9.5	34.1	42.5	10.3	37.2	43.0	11.5	41.4	44.5	12.6	45.3	46.0
4.5	3.5	12.5	33.0	4.3	15.4	34.5	5.4	19.5	37.0	6.2	22.2	38.5	7.0	25.1	40.0	7.9	28.5	41.5	8.9	32.0	42.5	10.0	36.2	44.0	11.0	39.5	45.0	12.2	43.9	46.0	13.4	48.1	47.5
5.0	3.7	13.2	34.0	4.5	16.2	35.5	5.7	20.6	38.5	6.5	23.4	39.5	7.3	26.4	41.0	8.3	30.0	42.5	9.4	33.7	44.0	10.6	38.1	45.5	11.6	41.7	46.5	12.9	46.3	47.5	14.1	50.7	49.5
5.5	3.9	13.9	35.0	4.7	17.0	37.0	6.0	21.6	39.5	6.8	24.5	41.0	7.7	27.7	42.5	8.7	31.5	44.0	9.8	35.4	45.5	11.1	40.0	46.5	12.1	43.7	47.5	13.5	48.6	49.0	14.8	53.2	50.5
6.0	4.0	14.5	36.0	4.9	17.8	38.0	6.3	22.6	40.5	7.1	25.6	42.0	8.0	29.0	43.5	9.1	32.9	45.0	10.3	37.0	46.5	11.6	41.8	48.0	12.7	45.7	49.0	14.1	50.7	50.5	15.4	55.6	52.0
6.5	4.2	15.1	37.0	5.1	18.5	39.0	6.5	23.5	41.5	7.4	26.7	43.0	8.4	30.1	44.5	9.5	34.2	46.0	10.7	38.5	47.5	12.1	43.5	49.0	13.2	47.5	50.0	14.7	52.8	51.5	16.1	57.8	53.5
7.0	4.4	15.7	38.0	5.3	19.2	40.0	6.8	24.4	42.5	7.7	27.7	44.0	8.7	31.3	45.5	9.9	35.5	47.0	11.1	40.0	48.5	12.5	45.1	50.0	13.7	49.3	51.0	15.2	54.8	52.5	16.7	60.0	54.5
7.5	4.5	16.3	39.0	5.5	19.9	41.0	7.0	25.3	43.5	8.0	28.7	45.0	9.0	32.4	46.5	10.2	36.8	48.0	11.5	41.4	49.5	13.0	46.7	51.0	14.2	51.1	52.0	15.8	56.8	53.5	17.3	62.1	55.5

Radii 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. Pressure refers to pressure at the nozzle.

TAPER RING NOZZLE. This nozzle combines the changeability of a Ring Nozzle with some of the efficiency of a Taper Bore Nozzle.

848 Airport Road, Walla Walla, Washington 99362 U.S.A. / Tel: +1 509.525.7660 / Fax: +1 509.525.7907 / nelsonirrigation.com

NELSON