

BOOMINATOR

From



**Boomless
Spray Nozzle**

Features

- All nozzles carry a 3-YEAR LIMITED WARRANTY against defects in materials and workmanship.
- All nozzles are CNC Machined from stainless steel. NO PLASTIC PARTS to wear or break.
- All nozzles are INDIVIDUALLY FACTORY TESTED to ensure correct spray pattern.

Benefits

- Boominator nozzles produce a superior spray pattern with even distribution over the entire width.
- Boominator nozzles produce a heavy droplet pattern for minimal drift and better crop penetration.
- Boominator nozzles can easily spray around obstacles and over uneven terrain.

Suitable Applications

- De-icing on roads, bridges, pavements, runways and car parks
- Spraying fence lines and public rights of way
- Dust suppression and damping of surfaces.
- Lawn, turf and nursery applications
- Orchard, vineyard and vegetable spraying
- Ponds lake and canals. Aquatic pest and weed control
- Insect control - for example fly control on a land fill site.

Short Pattern Spray Nozzle

All Short Pattern Spray Nozzles were tested at a height of 45 cm. (Recommended operating height is between 30 & 90 cm) These nozzles are designed for left or right-hand mounting and provide an outward to downward spray pattern.

Short Pattern Nozzles are listed in light green in the application charts



Roadside Spray Nozzle

All Roadside Spray Nozzles were tested at a height of 90 cm. (Recommended operating height is between 45 & 120 cm) These nozzles are designed for right-hand work and therefore must be attached at the front of the sprayer. They provide a wide spray pattern without kickback under the nozzle.

Roadside Pattern Nozzles are listed in orange in the application charts



Regular Pattern Spray Nozzles

All Regular Pattern Spray Nozzles were tested at a height of 90 cm. (Recommended operating height is between 45 & 120 cm) These nozzles are designed for left or right-hand mounting and provide a wide spray pattern with approximately 15° of kickback under the nozzle. When using left-hand and right-hand nozzles together, adjust nozzles to allow for 2.5 - 5 cm of kickback overlap between the nozzles to prevent streaking in spray coverage. Nozzles can be rotated to adjust distance of spray pattern outward or amount of kickback under the nozzle

Regular Pattern Nozzles are listed in pink in the application charts



Full Pattern Spray Nozzles

All Full Pattern Spray Nozzles were tested at a height of 90 cm. (Recommended operating height is between 45 & 120 cm) These nozzles are designed to provide a full left-hand to right-hand spray pattern from a single centrally mounted nozzle.

Full Pattern Nozzles are listed in yellow in the application charts



Nozzle Installation Tips and Operation

Nozzle Height Adjustment

Nozzles can be used at various heights within the recommended range. However this will affect the spray pattern width and the litres / hectare applied.

Multi-Pass Spraying

When multi-pass spraying, be sure to overlap the ends of spray patterns 30 - 40 cm to ensure even coverage.



Adverse Wind Conditions

With boomless spray nozzles, as with other spraying methods, high or gusty wind conditions can cause drifting or pattern movements, adversely affecting spray coverage. If this occurs, wait for more favourable conditions before continuing.

Plumbing Requirements

Make sure that all plumbing and feed lines can properly supply the nozzle or nozzles at their rated l / Ha and pressure. The type of pump used and the length of the discharge hose will affect the volume and pressure delivered to the nozzle and nozzles.

Minimum hose size requirements are:

- | | | | |
|----|---|--------|--------------|
| 1) | - | ¼" NPT | 3/8" ID Hose |
| 2) | - | ¼" NPT | 1/2" ID Hose |
| 1 | - | ½" NPT | 3/4" ID Hose |
| 2) | - | ½" NPT | 1" ID Hose |



**ATV MOUNTED SPRAYER WITH
2 REGULAR PATTERN NOZZLES**



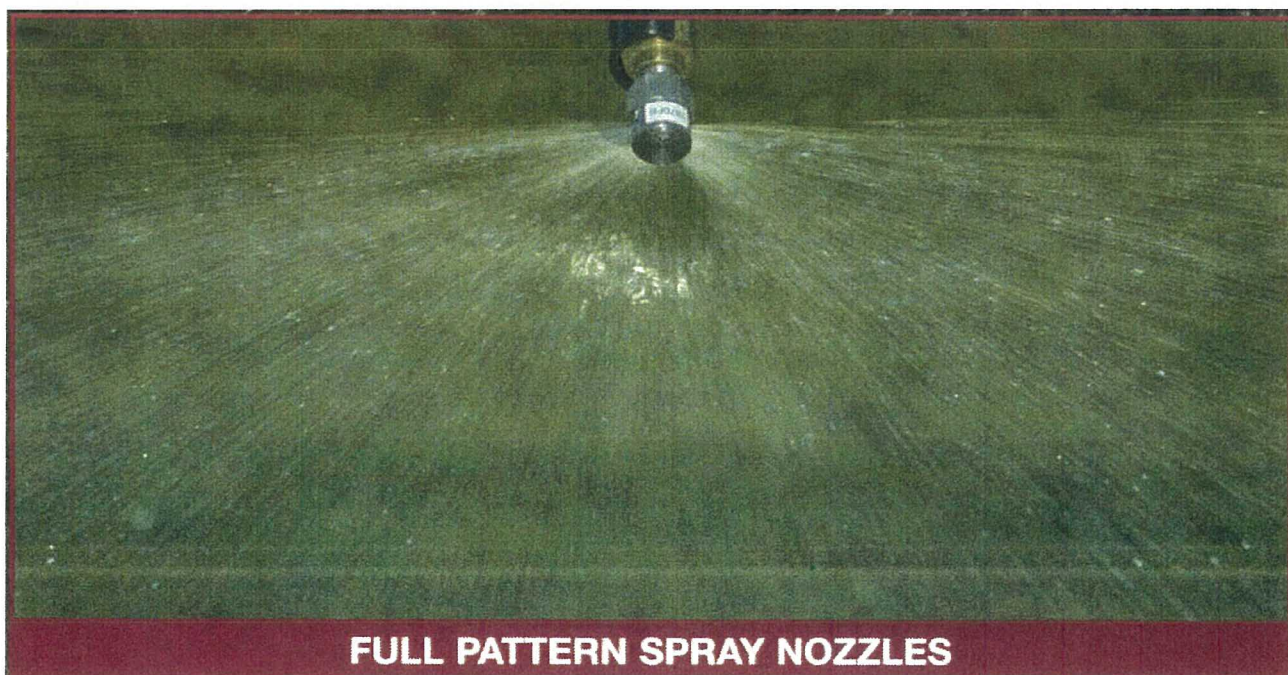
**TRUCK-MOUNTED SHORT
PATTERN SPRAY NOZZLES**

Full Pattern	Regular Pattern	Short Pattern	Roadside Pattern	Width Metres	Pressure Bar	L/Min	Speed KPH								
							4	5	6	8	10	12	14	16	18
							l/ha								
	1160 1/4" NPT			4.88	1.00	3.16	97	78	65	49	39	32	28	24	22
					1.25	3.53	109	87	72	54	43	36	31	27	24
					1.50	3.87	119	95	79	59	48	40	34	30	26
					1.75	4.18	128	103	86	64	51	43	37	32	29
					2.00	4.47	137	110	92	69	55	46	39	34	31
					2.50	5.00	154	123	102	77	61	51	44	38	34
1400FM 1/4" NPT				6.71	1.00	5.44	122	97	81	61	49	41	35	30	27
					1.25	6.08	136	109	91	68	54	45	39	34	30
					1.50	6.66	149	119	99	74	60	50	43	37	33
					1.75	7.19	161	129	107	80	64	54	46	40	36
					2.00	7.69	172	138	115	86	69	57	49	43	38
					2.50	8.60	192	154	128	96	77	64	55	48	43
1250FS 1/4" NPT	1250 1/4" NPT		1250RS 1/4" NPT	4.88	1.00	4.8	148	118	98	74	59	49	42	37	33
					1.25	5.37	165	132	110	82	66	55	47	41	37
					1.50	5.88	181	145	120	90	72	60	52	45	40
					1.75	6.35	195	156	130	98	78	65	56	49	43
					2.00	6.79	209	167	139	104	83	70	60	52	46
					2.50	7.59	233	187	156	117	93	78	67	58	52
1400FS 1/4" NPT	1400 1/4" NPT		1400RS 1/4" NPT	5.18	1.00	5.44	158	126	105	79	63	53	45	39	35
					1.25	6.08	176	141	117	88	70	59	50	44	39
					1.50	6.66	193	154	129	96	77	64	55	48	43
					1.75	7.20	208	167	139	104	83	69	60	52	46
					2.00	7.69	223	178	149	111	89	74	64	56	50
					2.50	8.60	249	199	166	125	100	83	71	62	55
1870FL 1/4" NPT				9.14	1.00	9.63	158	126	105	79	63	53	45	40	35
					1.25	10.77	177	141	118	88	71	59	50	44	39
					1.50	11.79	194	155	129	97	77	65	55	48	43
					1.75	12.74	209	167	139	105	84	70	60	52	46
					2.00	13.62	224	179	149	112	89	75	64	56	50
					2.50	15.23	250	200	167	125	100	83	71	62	56
1870FM 1/4" NPT				7.00	1.00	9.63	206	165	138	103	83	69	59	52	46
					1.25	10.77	231	185	154	115	92	77	66	58	51
					1.50	11.79	253	202	168	126	101	84	72	63	56
					1.75	12.74	273	218	182	136	109	91	78	68	61
					2.00	13.62	292	233	195	146	117	97	83	73	65
					2.50	15.23	326	261	218	163	131	109	93	82	73
1870FS 1/4" NPT	1870 1/4" NPT		1870RS 1/4" NPT	5.49	1.00	9.63	263	210	175	132	105	88	75	66	58
					1.25	10.77	294	235	196	147	118	98	84	74	65
					1.50	11.79	322	258	215	161	129	107	92	81	72
					1.75	12.74	348	278	232	174	139	116	99	87	77
					2.00	13.62	372	298	248	186	149	124	106	93	83
					2.50	15.23	416	333	277	208	166	139	119	104	92
2650FL 1/2" NPT				11.60	1.00	21.64	280	224	187	140	112	93	80	70	62
					1.25	24.19	313	250	209	156	125	104	89	78	70
					1.50	26.50	343	274	228	171	137	114	98	86	76
					1.75	28.63	370	296	247	185	148	123	106	93	82
					2.00	30.60	396	317	264	198	158	132	113	99	88
					2.50	34.22	442	354	295	221	177	147	126	111	98

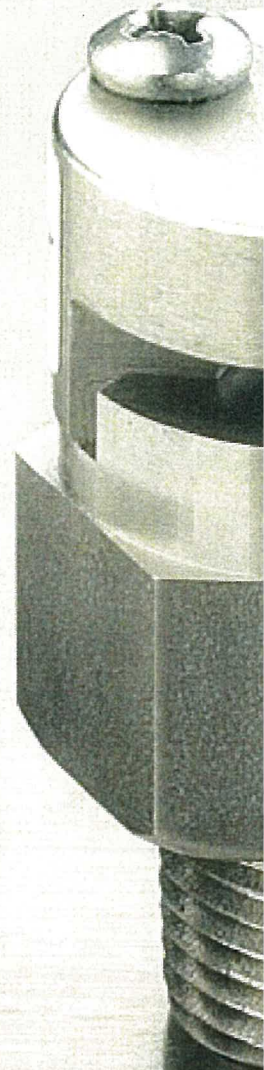
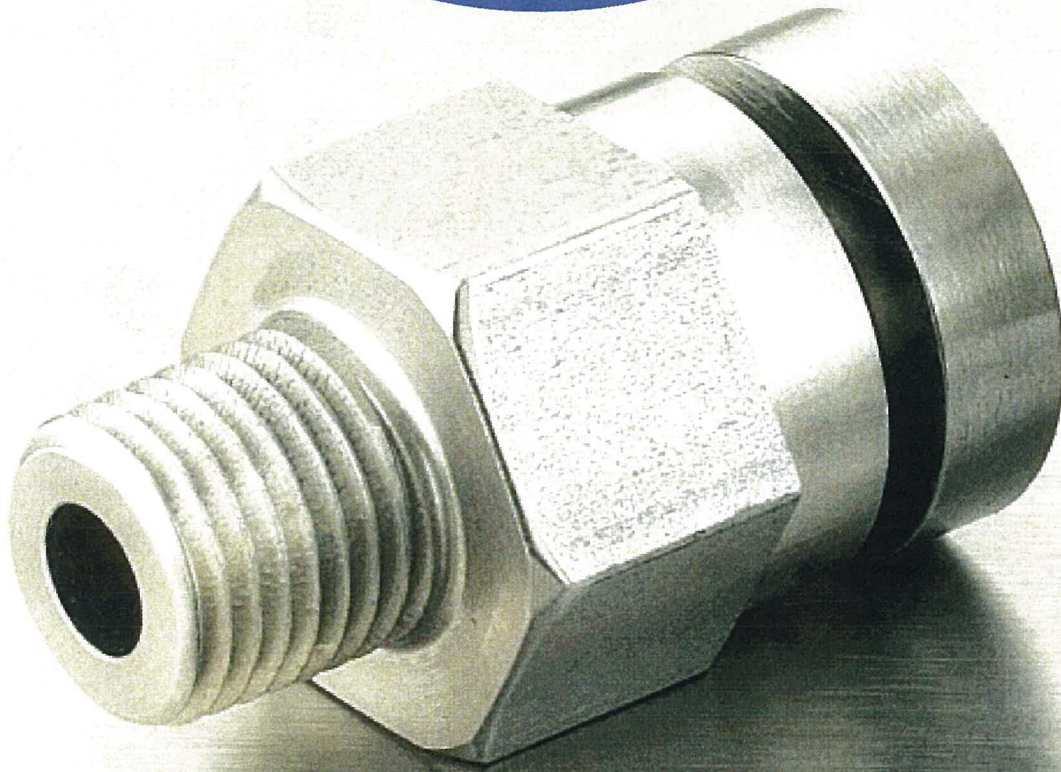
Full Pattern	Regular Pattern	Short Pattern	Roadside Pattern	Width Metres	Pressure Bar	L/Min	Speed KPH								
							4	5	6	8	10	12	14	16	18
							l/ha								
		1165		1.50	1.00	3.16	316	253	211	158	126	105	90	79	70
					1.25	3.53	353	283	236	177	141	118	101	88	79
					1.50	3.87	387	310	258	194	155	129	111	97	86
					1.75	4.18	418	334	279	209	167	139	119	105	93
					2.00	4.47	447	358	298	223	179	149	128	112	99
					2.50	5.00	500	400	333	250	200	167	143	125	111
		1406		1.83	1.00	5.44	446	357	297	223	178	149	127	111	99
					1.25	6.08	498	399	332	249	199	166	142	125	111
					1.50	6.66	546	437	364	273	218	182	156	136	121
					1.75	7.19	590	472	393	295	236	197	168	147	131
					2.00	7.69	630	504	420	315	252	210	180	158	140
					2.50	8.60	705	564	470	352	282	235	201	176	157
3120FL				12.20	1.00	36.42	448	358	299	224	179	149	128	112	100
					1.25	40.72	501	401	334	250	200	167	143	125	111
					1.50	44.61	548	439	366	274	219	183	157	137	122
					1.75	48.18	592	474	395	296	237	197	169	148	132
					2.00	51.51	633	507	422	317	253	211	181	158	141
					2.50	57.59	708	566	472	354	283	236	202	177	157
		1871		3.05	1.00	9.6	472	378	315	236	189	157	135	118	105
					1.25	10.73	528	422	352	264	211	176	151	132	117
					1.50	11.76	578	463	385	289	231	193	165	145	128
					1.75	12.70	625	500	416	312	250	208	178	156	139
					2.00	13.58	668	534	445	334	267	223	191	167	148
					2.50	15.18	747	597	498	373	299	249	213	187	166
		1255		1.50	1.00	4.8	480	384	320	240	192	160	137	120	107
					1.25	5.37	537	429	358	268	215	179	153	134	119
					1.50	5.88	588	470	392	294	235	196	168	147	131
					1.75	6.35	635	508	423	317	254	212	181	159	141
					2.00	6.79	679	543	453	339	272	226	194	170	151
					2.50	7.59	759	607	506	379	304	253	217	190	169
	2650 1/2" NPT		2650RS 1/2" NPT	6.10	1.00	21.43	527	422	351	263	211	176	151	132	117
					1.25	23.96	589	471	393	295	236	196	168	147	131
					1.50	26.25	645	516	430	323	258	215	184	161	143
					1.75	28.35	697	558	465	349	279	232	199	174	155
					2.00	30.31	745	596	497	373	298	248	213	186	166
					2.50	33.88	833	667	555	417	333	278	238	208	185
	3120 1/2" NPT		3120RS 1/2" NPT	6.40	1.00	23.03	540	432	360	270	216	180	154	135	120
					1.25	25.75	603	483	402	302	241	201	172	151	134
					1.50	28.21	661	529	441	331	264	220	189	165	147
					1.75	30.47	714	571	476	357	286	238	204	179	159
					2.00	32.57	763	611	509	382	305	254	218	191	170
					2.50	36.41	853	683	569	427	341	284	244	213	190
3750FL				12.20	1.00	44.15	543	434	362	271	217	181	155	136	121
					1.25	49.36	607	486	405	303	243	202	173	152	135
					1.50	54.07	665	532	443	332	266	222	190	166	148
					1.75	58.40	718	574	479	359	287	239	205	180	160
					2.00	62.44	768	614	512	384	307	256	219	192	171
					2.50	69.81	858	687	572	429	343	286	245	215	191

Full Pattern	Regular Pattern	Short Pattern	Roadside Pattern	Width Metres	Pressure Bar	L/Min	Speed KPH								
							4	5	6	8	10	12	14	16	18
							l/ha								
4370FL 1/2" NPT				13.40	1.00	52.15	584	467	389	292	234	195	167	146	130
					1.25	58.31	653	522	435	326	261	218	186	163	145
					1.50	63.87	715	572	477	357	286	238	204	179	159
					1.75	68.99	772	618	515	386	309	257	221	193	172
					2.00	73.75	826	660	550	413	330	275	236	206	183
					2.50	82.46	923	738	615	462	369	308	264	231	205
2650FM 1/2" NPT				5.49	1.00	21.64	591	473	394	296	237	197	169	148	131
					1.25	24.19	661	529	441	331	264	220	189	165	147
					1.50	26.50	724	579	483	362	290	241	207	181	161
					1.75	28.63	782	626	521	391	313	261	223	196	174
					2.00	30.60	836	669	557	418	334	279	239	209	186
					2.50	34.22	935	748	623	467	374	312	267	234	208
2650FS 1/2" NPT				4.88	1.00	21.64	665	532	443	333	266	222	190	166	148
					1.25	24.19	744	595	496	372	297	248	212	186	165
					1.50	26.50	815	652	543	407	326	272	233	204	181
					1.75	28.63	880	704	587	440	352	293	251	220	196
					2.00	30.60	941	753	627	470	376	314	269	235	209
					2.50	34.22	1052	841	701	526	421	351	300	263	234
3120FM 1/2" NPT				8.23	1.00	36.42	664	531	443	332	266	221	190	166	148
					1.25	40.72	742	594	495	371	297	247	212	186	165
					1.50	44.61	813	650	542	406	325	271	232	203	181
					1.75	48.18	878	702	585	439	351	293	251	220	195
					2.00	51.51	939	751	626	469	375	313	268	235	209
					2.50	57.59	1050	840	700	525	420	350	300	262	233
		1404 1/4" NPT		1.22	1.00	5.44	669	535	446	334	268	223	191	167	149
					1.25	6.08	748	598	499	374	299	249	214	187	166
					1.50	6.66	819	655	546	410	328	273	234	205	182
					1.75	7.20	885	708	590	442	354	295	253	221	197
					2.00	7.69	946	757	631	473	378	315	270	236	210
					2.50	8.60	1058	846	705	529	423	353	302	264	235
3750FM 1/2" NPT				9.14	1.00	44.15	725	580	483	362	290	242	207	181	161
					1.25	49.36	810	648	540	405	324	270	231	203	180
					1.50	54.07	887	710	592	444	355	296	254	222	197
					1.75	58.40	959	767	639	479	383	320	274	240	213
					2.00	62.44	1025	820	683	512	410	342	293	256	228
					2.50	69.81	1146	917	764	573	458	382	327	286	255
3120FS 1/2" NPT				7.01	1.00	36.42	779	623	520	390	312	260	223	195	173
					1.25	40.72	871	697	581	436	349	290	249	218	194
					1.50	44.61	954	764	636	477	382	318	273	239	212
					1.75	48.18	1031	825	687	515	412	344	295	258	229
					2.00	51.51	1102	882	735	551	441	367	315	276	245
					2.50	57.59	1232	986	821	616	493	411	352	308	274
		1876 1/4" NPT		1.83	1.00	9.6	787	630	525	393	315	262	225	197	175
					1.25	10.73	880	704	587	440	352	293	251	220	196
					1.50	11.76	964	771	642	482	385	321	275	241	214
					1.75	12.70	1041	833	694	520	416	347	297	260	231
					2.00	13.58	1113	890	742	556	445	371	318	278	247
					2.50	15.18	1244	995	829	622	498	415	355	311	276

Full Pattern	Regular Pattern	Short Pattern	Roadside Pattern	Width Metres	Pressure Bar	L/Min	Speed KPH								
							4	5	6	8	10	12	14	16	18
		1253		0.91			l/ha								
		1/4" NPT		0.91	1.00	4.8	791	633	527	396	316	264	226	198	176
			1.25		5.37	885	708	590	442	354	295	253	221	197	
			1.50		5.88	969	775	646	485	388	323	277	242	215	
			1.75		6.35	1047	837	698	523	419	349	299	262	233	
			2.00		6.79	1119	895	746	559	448	373	320	280	249	
			2.50		7.59	1251	1001	834	626	500	417	357	313	278	
	3750		3750RS	7.01											
	1/2" NPT		1/2" NPT	7.01	1.00	38.39	821	657	548	411	329	274	235	205	183
		1.25			42.92	918	735	612	459	367	306	262	230	204	
		1.50			47.02	1006	805	671	503	402	335	287	252	224	
		1.75			50.79	1087	869	724	543	435	362	310	272	241	
		2.00			54.29	1162	929	774	581	465	387	332	290	258	
		2.50			60.70	1299	1039	866	649	520	433	371	325	289	
	4370		4370RS	7.62											
	1/2" NPT		1/2" NPT	7.62	1.00	44.15	869	695	579	435	348	290	248	217	193
		1.25			49.36	972	777	648	486	389	324	278	243	216	
		1.50			54.07	1064	852	710	532	426	355	304	266	237	
		1.75			58.40	1150	920	766	575	460	383	328	287	255	
		2.00			62.44	1229	983	819	615	492	410	351	307	273	
		2.50			69.81	1374	1099	916	687	550	458	393	344	305	
		2951		3.05											
	1/2" NPT			3.05	1.00	21.43	1054	843	703	527	422	351	301	263	234
		1.25			23.96	1178	943	786	589	471	393	337	295	262	
		1.50			26.25	1291	1033	861	645	516	430	369	323	287	
		1.75			28.35	1394	1115	929	697	558	465	398	349	310	
		2.00			30.31	1490	1192	994	745	596	497	426	373	331	
		2.50			33.88	1666	1333	1111	833	667	555	476	417	370	
		3121		3.05											
	1/2" NPT			3.05	1.00	23.03	1133	906	755	566	453	378	324	283	252
		1.25			25.75	1266	1013	844	633	507	422	362	317	281	
		1.50			28.21	1387	1110	925	694	555	462	396	347	308	
		1.75			30.47	1498	1199	999	749	599	499	428	375	333	
		2.00			32.57	1602	1281	1068	801	641	534	458	400	356	
		2.50			36.41	1791	1433	1194	895	716	597	512	448	398	



FULL PATTERN SPRAY NOZZLES



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