

# INJECTOR ORIFICE CHARTS

## 10-34-0 & 3-18-18

11.7 lb/gal

10-34-0 & 3-18-18 OR 11.7 LB/GAL

### Pressure Recommendations: (with 5 lb check valves)

- ▶ Electric pumps: 12-30 PSI
- ▶ Hydraulic or piston pumps: 15-60 PSI

### Charts are based @ 60°F

- ▶ Cleanliness, viscosity, and temperature affect the flow rate.
  - ▶ Heavier fertilizers will have 5-15% less flow than chart indicates for a certain pressure.
  - ▶ Cold fertilizers will cause system pressure to increase at a given application rate.
  - ▶ The electric pump systems will have reduced flow and increased electrical current draw due to cold fertilizer increasing operating pressure. Use the largest orifice possible for cold weather operation.
  - ▶ **PLEASE NOTE:** We normally recommend using only 1 orifice under pressure when running 7-15 lbs of pressure. However, using 2 orifices under pressure can be beneficial because it will help eliminate fertilizer splatter or misting/volatilization of fertilizer when done in the following manner:
    - Use the correct size orifice above for 15-30 psi pressures
    - Use 2-3 times size orifice below, creating 5-7 lbs pressure to stream fertilizer into the soil
- NEVER USE 2 OF THE SAME SIZE ORIFICES IN YOUR SYSTEM!!**

### GALLONS PER ACRE 30" SPACING

ORIFICE	PSI	5 MPH	6 MPH	7 MPH	8 MPH
<b>001</b> .026 WHITE	15	2.0	1.7	1.4	1.3
	20	2.4	1.9	1.7	1.5
	30	2.9	2.5	2.1	1.8
	40	3.4	2.8	2.4	2.1
<b>0015</b> .031 BLACK	15	3.1	2.5	2.2	1.9
	20	4.0	3.0	2.5	2.2
	30	4.3	3.6	3.1	2.7
	40	5.0	4.2	4.0	3.1
<b>002</b> .036 SILVER	15	4.1	3.4	3.0	2.5
	20	4.7	4.0	3.4	3.0
	30	5.8	4.8	4.2	3.6
	40	6.7	5.6	4.8	4.2
<b>003</b> .041 NEON ORANGE	15	6.2	5.2	4.4	3.8
	20	7.1	5.9	5.1	4.5
	30	8.7	7.3	6.3	5.4
	40	10.1	8.4	7.2	6.3
<b>004</b> .047 NEON GREEN	15	8.2	6.9	5.8	5.2
	20	9.5	7.9	6.8	5.9
	30	11.6	9.7	8.3	7.3
	40	13.4	11.2	9.6	8.4
<b>005</b> .053 GOLD METALLIC	15	10.3	8.6	7.4	6.4
	20	11.9	9.9	8.5	7.5
	30	14.6	12.1	10.4	9.1
	40	16.8	14.0	11.9	10.5
<b>006</b> .058 PLUM PURPLE	15	12.3	10.3	8.8	7.7
	20	14.2	11.9	10.2	8.9
	30	17.8	14.6	12.5	10.9
	40	20	16.8	14.4	12.6
<b>008</b> .067 APPLE RED	15	16.4	13.7	11.8	10.3
	20	18.6	15.8	13.6	11.9
	30	23	19.5	16.6	14.6
	40	27	22	19.5	16.8
<b>010</b> .073 SKY BLUE	15	20	16.9	14.7	12.9
	20	24	19.5	16.9	14.8
	30	29	25	21	17.8
	40	34	28	24	21
<b>015</b> .092 BERRY PINK	15	31	25	22	19.5
	20	36	30	25	22
	30	43	36	31	27
	40	50	42	36	31
<b>020</b> .103 SUN YELLOW	15	41	34	30	25
	20	47	40	34	30
	30	58	48	42	36
	40	67	56	48	42
<b>030</b> 9/64 WALNUT BROWN	15	62	52	44	38
	20	71	59	51	45
	30	87	73	62	54
	40	101	84	72	63
<b>040</b> 5/32 DEEP BLUE	15	82	69	58	52
	20	95	79	68	59
	30	116	97	83	73
	40	134	112	96	84

### WHERE TABLES ARE BASED ON 30" NOZZLE SPACING

OTHER SPACING	26"	28"	32"	34"	36"	38"	40"	42"	44"
CONVERSION FACTOR (multiply)	1.15	1.07	.94	.88	.83	.79	.75	.71	.68

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