

INJECTOR ORIFICE CHARTS

WATER OR 8.34 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!!**

WATER 8.34 lb/gal material

		GALLONS PER ACRE 30" SPACING			
ORIFICE	PSI	5 MPH	6 MPH	7 MPH	8 MPH
001 .026 WHITE	15	2.4	2.0	1.7	1.5
	20	2.8	2.3	2.0	1.8
	30	3.4	2.9	2.5	2.1
	40	4.0	3.3	2.8	2.5
0015 .031 BLACK	15	3.6	3.0	2.6	2.3
	20	4.7	3.5	3.0	2.6
	30	5.1	4.3	3.7	3.2
	40	5.9	5.0	4.7	3.7
002 .036 SILVER	15	4.8	4.0	3.5	3.0
	20	5.6	4.7	4.0	3.5
	30	6.9	5.7	4.9	4.3
	40	7.9	6.6	5.7	5.0
003 .041 NEON ORANGE	15	7.3	6.1	5.2	4.5
	20	8.4	7.0	6.0	5.3
	30	10.3	8.6	7.4	6.4
	40	11.9	9.9	8.5	7.4
004 .047 NEON GREEN	15	9.7	8.1	6.9	6.1
	20	11.2	9.3	8.0	7.0
	30	13.7	11.4	9.8	8.6
	40	15.8	13.2	11.3	9.9
005 .053 GOLD METALLIC	15	12.1	10.1	8.7	7.6
	20	14.0	11.7	10.0	8.8
	30	17.2	14.3	12.3	10.7
	40	19.8	16.5	14.1	12.4
006 .058 PLUM PURPLE	15	14.5	12.1	10.4	9.1
	20	16.8	14.0	12.0	10.5
	30	21	17.2	14.7	12.9
	40	24	19.8	17.0	14.9
008 .067 APPLE RED	15	19.4	16.2	13.9	12.1
	20	22	18.7	16.0	14.0
	30	27	23	19.6	17.2
	40	32	26	23	19.8
010 .073 SKY BLUE	15	24	20	17.3	15.2
	20	28	23	20	17.5
	30	34	29	25	21
	40	40	33	28	25
015 .092 BERRY PINK	15	36	30	26	23
	20	42	35	30	26
	30	51	43	37	32
	40	59	50	42	37
020 .103 SUN YELLOW	15	48	40	35	30
	20	56	47	40	35
	30	69	57	49	43
	40	79	66	57	49
030 9/64 WALNUT BROWN	15	73	61	52	45
	20	84	70	60	53
	30	103	86	73	64
	40	119	99	85	74
040 5/32 DEEP BLUE	15	97	81	69	61
	20	112	93	80	70
	30	137	114	98	86
	40	158	132	113	99

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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