

# INJECTOR ORIFICE CHARTS

32-0-0 & 9-18-9 OR 11.04 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!!**

32-0-0 & 9-18-9  
11.04 lb/gal

		GALLONS PER ACRE 30" SPACING			
ORIFICE	PSI	5 MPH	6 MPH	7 MPH	8 MPH
001 .026 WHITE	15	2.1	1.7	1.5	1.3
	20	2.4	2.0	1.7	1.6
	30	3.0	2.5	2.2	1.8
	40	3.5	2.9	2.4	2.2
0015 .031 BLACK	15	3.1	2.6	2.3	2.0
	20	4.1	3.0	2.6	2.3
	30	4.4	3.7	3.2	2.8
	40	5.1	4.3	4.1	3.2
002 .036 SILVER	15	4.2	3.5	3.0	2.6
	20	4.9	4.1	3.5	3.0
	30	6.0	5.0	4.3	3.7
	40	6.9	5.7	5.0	4.3
003 .041 NEON ORANGE	15	6.3	5.3	4.5	3.9
	20	7.3	6.1	5.2	4.6
	30	9.0	7.5	6.4	5.6
	40	10.3	8.6	7.4	6.4
004 .047 NEON GREEN	15	8.4	7.0	6.0	5.3
	20	9.7	8.1	7.0	6.1
	30	11.9	9.9	8.5	7.5
	40	13.7	11.5	9.8	8.6
005 .053 GOLD METALLIC	15	10.5	8.8	7.6	6.6
	20	12.2	10.2	8.7	7.7
	30	15.0	12.4	10.7	9.3
	40	17.2	14.3	12.3	10.8
006 .058 PLUM PURPLE	15	12.6	10.5	9.0	7.9
	20	14.6	12.2	10.4	9.1
	30	18.3	15.0	12.8	11.2
	40	21	17.2	14.8	13.0
008 .067 APPLE RED	15	16.9	14.1	12.1	10.5
	20	19.1	16.3	13.9	12.2
	30	23	20	17.0	15.0
	40	28	23	20	17.2
010 .073 SKY BLUE	15	21	17.4	15.0	13.2
	20	24	20	17.4	15.2
	30	30	25	22	18.3
	40	35	29	24	22
015 .092 BERRY PINK	15	31	26	23	20
	20	37	30	26	23
	30	44	37	32	28
	40	51	43	37	32
020 .103 SUN YELLOW	15	42	35	30	26
	20	49	41	35	30
	30	60	50	43	37
	40	69	57	50	43
030 9/64 WALNUT BROWN	15	63	53	45	39
	20	73	61	52	46
	30	90	75	63	56
	40	103	86	74	64
040 5/32 DEEP BLUE	15	84	70	60	53
	20	97	81	70	61
	30	119	99	85	75
	40	137	115	98	86

## 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

**Schaffert**  
manufacturing & sales