

# COLORED DISC ORIFICE CHART FOR 8" ROWS

*Application Rate (gal/ac) for Colored Disc Orifices*

## 8 INCH SPACING

**Electric Pump Pressure Recommendations (with 5 lb check valves):**

- Minimum: 10 PSI
- Maximum: 30 PSI

**Chart is for 10-34-0 Fertilizer (11.7 lb/gal material) @ 55-65°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.
- Water or 8.34 lb/gal material—multiply by the factor of 1.188
- 555 Fertilizer or 11.2 lb/gal—multiply by the factor of 1.024
- 28-0-0 Fertilizer or 10.65 lb/gal—multiply by the factor of 1.051

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DISC	PSI	4.5mph	5mph	5.5mph	6mph	6.5mph	7mph
Pink	5	3.78	3.38	3.08	2.82	2.60	2.42
	10	5.32	4.79	4.34	3.99	3.68	3.42
	15	6.58	5.92	5.40	4.94	4.55	4.23
	20	7.56	6.81	6.19	5.66	5.24	4.86
	25	8.40	7.56	6.88	6.28	5.81	5.40
	30	9.23	8.31	7.56	6.92	6.39	5.93

DISC	PSI	4.5mph	5mph	5.5mph	6mph	6.5mph	7mph
Gray	5	5.64	5.09	4.62	4.21	3.92	3.64
	10	7.97	7.18	6.52	5.98	5.53	5.12
	15	9.64	8.69	7.91	7.26	6.68	6.20
	20	12.05	10.83	9.83	9.04	8.33	7.74
	25	12.61	11.34	10.30	9.48	8.71	8.09
	30	13.74	12.35	11.20	10.30	9.49	8.82

DISC	PSI	4.5mph	5mph	5.5mph	6mph	6.5mph	7mph
Black	5	7.73	6.94	6.32	5.79	5.34	4.95
	10	10.92	9.81	8.93	8.18	7.55	7.00
	15	13.44	12.09	10.98	10.08	9.30	8.63
	20	15.55	13.97	12.71	11.66	10.74	9.97
	25	17.37	15.60	14.19	13.03	12.00	11.14
	30	18.91	16.98	15.45	14.18	13.06	12.12

DISC	PSI	4.5mph	5mph	5.5mph	6mph	6.5mph	7mph
Brown	5	10.40	9.34	8.50	7.80	7.18	6.67
	10	14.70	13.24	12.03	11.04	10.18	9.45
	15	17.92	16.11	14.65	13.44	12.39	11.51
	20	20.72	18.65	16.94	15.55	14.34	13.32
	25	23.24	20.92	19.01	17.45	16.09	14.94
	30	25.34	22.80	20.72	19.01	17.54	16.28

DISC	PSI	4.5mph	5mph	5.5mph	6mph	6.5mph	7mph
Orange	5	13.16	11.86	10.77	9.87	9.12	8.47
	10	18.61	16.75	15.23	13.95	12.88	11.96
	15	22.67	20.40	18.56	17.01	15.69	14.56
	20	26.32	23.69	21.53	19.74	18.22	16.91
	25	29.40	26.45	24.05	22.05	20.34	18.88
	30	32.19	28.97	26.32	24.14	22.28	20.69

DISC	PSI	4.5mph	5mph	5.5mph	6mph	6.5mph	7mph
Red	5	23.95	21.54	19.59	17.95	16.56	15.38
	10	33.86	30.47	27.35	25.40	23.44	21.75
	15	41.44	37.28	33.90	31.08	28.67	26.62
	20	47.86	43.07	39.16	35.91	33.13	30.76
	25	53.47	48.11	43.75	40.10	37.00	34.35
	30	58.64	52.75	47.98	43.99	40.57	37.66