





TurboDrop® Variable Rate Nozzle - 15" Spacing



Each TurboDrop® Variable Rate nozzle will cover the range of two to three standard TurboDrop® nozzle sizes. The flow rate increases more rapidly with an increase in pressure, making Variable Rate nozzles useful in covering wider speed ranges or providing on-the-go variable rate application. As with all ag spray nozzles, it is important to match droplet size to the application type. The DualFan Variable Rate will provide a smaller droplet size spectrum compared to the single fan version, as well as deliver dual spray coverage.

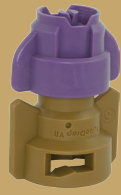

- 3x flow rate at constant speed (Variable rate applications)
- 3x speed range at constant GPA rate (Variable speed applications)
- Flow tolerance: $\pm 10-15\%$
- Flow control (vs. pressure control) systems will be more accurate
- Flush with clean water after each use
- Operate above 45 psi for best patterning
- Tabulations based on spraying water at 70°F

Pressure Range: 40-140psi **Materials of Construction:** Polyacetal, EPDM, Stainless Steel

TDVR015		TWVR015		Press. PSI	DROPLET SIZE ASABE	DROPLET SIZE ASABE	Flow GPM	Application Rate GPA at MPH based on 15" spacing										
								5	6	8	10	11	12	13	14	15	16	17
40	XC	VC	0.17	13.5	11.2	8.4	6.7	6.1	5.6	5.2	4.8	4.5	4.2	4.0	3.7	3.5		
50	VC	VC	0.22	17.4	14.5	10.9	8.7	7.9	7.3	6.7	6.2	5.8	5.4	5.1	4.8	4.6		
60	VC	C	0.27	21.4	17.8	13.4	10.7	9.7	8.9	8.2	7.6	7.1	6.7	6.3	5.9	5.6		
70	C	C	0.33	26.1	21.8	16.3	13.1	11.9	10.9	10.1	9.3	8.7	8.2	7.7	7.3	6.9		
80	M	M	0.38	30.1	25.1	18.8	15.0	13.7	12.5	11.6	10.7	10.0	9.4	8.9	8.4	7.9		
90	M	M	0.42	33.3	27.7	20.8	16.6	15.1	13.9	12.8	11.9	11.1	10.4	9.8	9.2	8.8		
100	M	F	0.45	35.6	29.7	22.3	17.8	16.2	14.9	13.7	12.7	11.9	11.1	10.5	9.9	9.4		
120	F	F	0.50	39.6	33.0	24.8	19.8	18.0	16.5	15.2	14.1	13.2	12.4	11.6	11.0	10.4		
140	F	F	0.54	42.8	35.6	26.7	21.4	19.4	17.8	16.4	15.3	14.3	13.4	12.6	11.9	11.3		

TDVR02		TWVR02		Press. PSI	DROPLET SIZE ASABE	DROPLET SIZE ASABE	Flow GPM	Application Rate GPA at MPH based on 15" spacing										
								5	6	8	10	11	12	13	14	15	16	17
40	XC	VC	0.22	17.4	14.5	10.9	8.7	7.9	7.3	6.7	6.2	5.8	5.4	5.1	4.8	4.6		
50	XC	VC	0.29	23.0	19.1	14.4	11.5	10.4	9.6	8.8	8.2	7.7	7.2	6.8	6.4	6.0		
60	VC	C	0.42	33.3	27.7	20.8	16.6	15.1	13.9	12.8	11.9	11.1	10.4	9.8	9.2	8.8		
70	C	C	0.51	40.4	33.7	25.2	20.2	18.4	16.8	15.5	14.4	13.5	12.6	11.9	11.2	10.6		
80	C	M	0.58	45.9	38.3	28.7	23.0	20.9	19.1	17.7	16.4	15.3	14.4	13.5	12.8	12.1		
90	M	M	0.64	50.7	42.2	31.7	25.3	23.0	21.1	19.5	18.1	16.9	15.8	14.9	14.1	13.3		
100	M	M	0.69	54.6	45.5	34.2	27.3	24.8	22.8	21.0	19.5	18.2	17.1	16.1	15.2	14.4		
120	M	F	0.75	59.4	49.5	37.1	29.7	27.0	24.8	22.8	21.2	19.8	18.6	17.5	16.5	15.6		
140	F	F	0.82	64.9	54.1	40.6	32.5	29.5	27.1	25.0	23.2	21.6	20.3	19.1	18.0	17.1		

TDVR03		TWVR03		Press. PSI	DROPLET SIZE ASABE	DROPLET SIZE ASABE	Flow GPM	Application Rate GPA at MPH based on 15" spacing										
								5	6	8	10	11	12	13	14	15	16	17
40	XC	VC	0.33	26.1	21.8	16.3	13.1	11.9	10.9	10.1	9.3	8.7	8.2	7.7	7.3	6.9		
50	XC	VC	0.41	32.5	27.1	20.3	16.2	14.8	13.5	12.5	11.6	10.8	10.1	9.6	9.0	8.5		
60	VC	C	0.51	40.4	33.7	25.2	20.2	18.4	16.8	15.5	14.4	13.5	12.6	11.9	11.2	10.6		
70	VC	C	0.67	53.1	44.2	33.2	26.5	24.1	22.1	20.4	19.0	17.7	16.6	15.6	14.7	14.0		
80	C	M	0.80	63.4	52.8	39.6	31.7	28.8	26.4	24.4	22.6	21.1	19.8	18.6	17.6	16.7		
90	C	M	0.87	68.9	57.4	43.1	34.5	31.3	28.7	26.5	24.6	23.0	21.5	20.3	19.1	18.1		
100	M	M	0.93	73.7	61.4	46.0	36.8	33.5	30.7	28.3	26.3	24.6	23.0	21.7	20.5	19.4		
120	M	F	1.02	80.8	67.3	50.5	40.4	36.7	33.7	31.1	28.9	26.9	25.2	23.8	22.4	21.3		
140	M	F	1.10	87.1	72.6	54.5	43.6	39.6	36.3	33.5	31.1	29.0	27.2	25.6	24.2	22.9		

TDVR05		TWVR05		Press. PSI	DROPLET SIZE ASABE	DROPLET SIZE ASABE	Flow GPM	Application Rate GPA at MPH based on 15" spacing										
								5	6	8	10	11	12	13	14	15	16	17
40			0.78	61.8	51.5	38.6	30.9	28.1	25.7	23.8	22.1	20.6	19.3	18.2	17.2	16.3		
50			0.98	77.6	64.7	48.5	38.8	35.3	32.3	29.9	27.7	25.9	24.3	22.8	21.6	20.4		
60			1.15	91.1	75.9	56.9	45.5	41.4	38.0	35.0	32.5	30.4	28.5	26.8	25.3	24.0		
70			1.33	105.3	87.8	65.8	52.7	47.9	43.9	40.5	37.6	35.1	32.9	31.0	29.3	27.7		
80	TBD	TBD	1.45	114.8	95.7	71.8	57.4	52.2	47.9	44.2	41.0	38.3	35.9	33.8	31.9	30.2		
90			1.57	124.3	103.6	77.7	62.2	56.5	51.8	47.8	44.4	41.4	38.9	36.6	34.5	32.7		
100			1.69	133.8	111.5	83.7	66.9	60.8	55.8	51.5	47.8	44.6	41.8	39.4	37.2	35.2		
120			1.80	142.6	118.8	89.1	71.3	64.8	59.4	54.8	50.9	47.5	44.6	41.9	39.6	37.5		
140			1.89	149.7	124.7	93.6	74.8	68.0	62.4	57.6	53.5	49.9	46.8	44.0	41.6	39.4		