Spray Nozzles

Nozzle #	Pressure PSI	TDVR Droplet Size	TWVR Droplet Size	Flow GPM	APPLICATION RATE GPA at MPH BASED ON 20" SPACING 4 mph	5 mph	6 mph	8 mph	10 mph	12 mph	14 mph	16 mph	18 mph	20 mph
TDVR015	40	XC	VC	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
	50	VC	VC	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.6	3.3
	60	VC	C	0.27	20.0	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.5	4.0
TWVR015	70	C	C	0.33	24.5	19.6	16.3	12.3	9.8	8.2	7.0	6.1	5.4	4.9
	80	M	M	0.38	28.2	22.6	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6
	90	M	M	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2
	100	M	F	0.45	33.4	26.7	22.3	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	40	XC	VC	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.6	3.3
TDVR02	50	XC	VC	0.29	21.5	17.2	14.4	10.8	8.6	7.2	6.2	5.4	4.8	4.3
	60	VC	C	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2
TWVR02	70	C	C	0.51	37.9	30.3	25.2	18.9	15.1	12.6	10.8	9.5	8.4	7.6
	80	C	M	0.58	43.1	34.5	28.7	21.5	17.2	14.4	12.3	10.8	9.6	8.6
	90	M	M	0.64	47.5	38.0	31.7	23.8	19.0	15.8	13.6	11.9	10.6	9.5
	100	M	F	0.69	51.2	41.0	34.2	25.6	20.5	17.1	14.6	12.8	11.4	10.2
	40	XC	VC	0.33	24.5	19.6	16.3	12.3	9.8	8.2	7.0	6.1	5.4	4.9
TDVR03	50	XC	VC	0.41	30.4	24.4	20.3	15.2	12.2	10.1	8.7	7.6	6.8	6.1
	60	VC	C	0.51	37.9	30.3	25.2	18.9	15.1	12.6	10.8	9.5	8.4	7.6
TWVR03	70	VC	C	0.67	49.7	39.8	33.2	24.9	19.9	16.6	14.2	12.4	11.1	9.9
	80	C	M	0.80	59.4	47.5	39.6	29.7	23.8	19.8	17.0	14.9	13.2	11.9
	90	C	M	0.87	64.6	51.7	43.1	32.3	25.8	21.5	18.5	16.1	14.4	12.9
	100	M	F	0.93	69.1	55.2	46.0	34.5	27.6	23.0	19.7	17.3	15.3	13.8
	40			0.78	57.9	46.3	38.6	29.0	23.2	19.3	16.5	14.5	12.9	11.6
TDVR05	50			0.98	72.8	58.2	48.5	36.4	29.1	24.3	20.8	18.2	16.2	14.6
	60			1.15	85.4	68.3	56.9	42.7	34.2	28.5	24.4	21.3	19.0	17.1
TWVR05	70	TBD	TBD	1.33	98.8	79.0	65.8	49.4	39.5	32.9	28.2	24.7	21.9	19.8
	80			1.45	107.7	86.1	71.8	53.8	43.1	35.9	30.8	26.9	23.9	21.5
	90			1.57	116.6	93.3	77.7	58.3	46.6	38.9	33.3	29.1	25.9	23.3
	100			1.69	125.5	100.4	83.7	62.7	50.2	41.8	35.9	31.4	27.9	25.1

Tabulation Based on Spraying Water at 70° F.

F = Fine VF = Very Fine M = Medium C = Coarse VC = Very Coarse XC = Extremely Coarse

Larger Droplets for Best Drift Control

TurboDrop® Variable Rate Broadcast Nozzles

TurboDrop® Variable Rate Nozzles ***(110° Flat Fan)*** will cover the range of three to four 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 TwinFan Variable Rate *(Twin 110° Flat Fans)* will provide a smaller droplet size spectrum compared to the single fan version, as well as deliver dual spray coverage.

TWVR015

TDVR03

- 3 Times Flow Rate at Constant Speed *(variable rate applications)*
- 3 Times Speed Range at Constant GPA Rate *(variable speed applications)*
- Flow Tolerance ± 10% to 15% - Flow Control *(vs. Pressure Control)* Systems Will Be More Accurate
- Use Flow Control Systems with Meters for Best Accuracy
- Operate Above 45 PSI for Best Pattern
- Tabulations Based On Spraying Water at 70° F.

Pressure Range: 40 to 140 PSI

Recommended Boom Height: 18" to 36" *(on 20" centers)*

Material of Construction: Polyacetal & EPDM

Part No.

GT TDVR015 thru **GT** TDVR05 — TurboDrop® Variable Rate Nozzles, 110° Fan .....

GT TWVR015 thru **GT** TWVR05 — TurboDrop® Variable Rate Nozzles, Twin 110° Fans .....

CALL FOR PRICING

TurboDrop® Variable Rate Nozzles

TurboDrop® Variable Rate Fertilizer Nozzles are designed to apply liquid fertilizer at a 4-5 times flow rate range to allow for varying fertilizer requirements of the target crop. Designed for tool bars, nitrogen applicators and other dedicated fertilizer rigs.

The TDVRF and TDVRHB can maintain a constant GPA rate over a 5x speed change.

The **TDVRF** utilizes a six hole streaming tip in order to minimize potential leaf burn while maximizing fertilizer distribution, maintaining uniformity with varying spray heights.

The **TDVRHB** utilizes a 3/8" hose barb for ease of installation on fertilizer rigs and acts as a variable flow metering orifice.

TDVRHB05

TDVRF05

TDVREX03

TDVRC Venturi Only

Nozzle #	Pressure PSI	Flow GPM	APPLICATION RATE GPA at MPH BASED ON 20" SPACING 4 mph	5 mph	6 mph	8 mph	10 mph	12 mph	14 mph	16 mph	18 mph	20 mph
TDVRF015	40	0.350	17.3	13.9	11.6	8.7	6.9	5.8	5.0	4.3	3.9	3.5
	50	0.391	19.4	15.5	12.9	9.7	7.7	6.5	5.5	4.8	4.3	3.9
	60	0.443	21.9	17.5	14.6	11.0	8.8	7.3	6.3	5.5	4.9	4.4
TDVRHB015	70	0.483	23.9	19.1	15.9	12.0	9.6	8.0	6.8	6.0	5.3	4.8
	80	0.516	25.5	20.4	17.0	12.8	10.2	8.5	7.3	6.4	5.7	5.1
TDVREX015	90	0.537	26.6	21.3	17.7	13.3	10.6	8.9	7.6	6.6	5.9	5.3
	100	0.566	28.0	22.4	18.7	14.0	11.2	9.3	8.0	7.0	6.2	5.6
	40	0.512	25.3	20.3	16.9	12.7	10.1	8.4	7.2	6.3	5.6	5.1
TDVRF02	50	0.575	28.5	22.8	19.0	14.2	11.4	9.5	8.1	7.1	6.3	5.7
	60	0.653	32.3	25.9	21.5	16.2	12.9	10.8	9.2	8.1	7.2	6.5
TDVRHB02	70	0.696	34.5	27.6	23.0	17.2	13.8	11.5	9.8	8.6	7.7	6.9
	80	0.744	36.8	29.5	24.6	18.4	14.7	12.3	10.5	9.2	8.2	7.4
TDVREX02	90	0.779	38.6	30.8	25.7	19.3	15.4	12.9	11.0	9.6	8.6	7.7
	100	0.821	40.6	32.5	27.1	20.3	16.3	13.5	11.6	10.2	9.0	8.1
	40	0.661	32.7	26.2	21.8	16.4	13.1	10.9	9.3	8.2	7.3	4.9
TDVRF03	50	0.739	36.6	29.3	24.4	18.3	14.6	12.2	10.5	9.1	8.1	6.5
	60	0.825	40.8	32.7	27.2	20.4	16.3	13.6	11.7	10.2	9.1	7.3
TDVRHB03	70	0.885	43.8	35.0	29.2	21.9	17.5	14.6	12.5	11.0	9.7	8.2
	80	0.943	46.7	37.3	31.1	23.3	18.7	15.6	13.3	11.7	10.4	8.8
TDVREX03	90	1.000	49.5	39.6	33.0	24.8	19.8	16.5	14.1	12.4	11.0	9.3
	100	1.054	52.2	41.7	34.8	26.1	20.9	17.4	14.9	13.0	11.6	9.9
	40	0.930	46.0	36.8	30.7	23.0	18.4	15.3	13.2	11.5	10.2	9.2
TDVRF05	50	1.039	51.4	41.1	34.3	25.7	20.6	17.1	14.7	12.9	11.4	10.3
	60	1.091	54.0	43.2	36.0	27.0	21.6	18.0	15.4	13.5	12.0	10.8
TDVRHB05	70	1.269	62.8	50.3	41.9	31.4	25.1	20.9	17.9	15.7	14.0	12.6
	80	1.368	67.7	54.2	45.1	33.9	27.1	22.6	19.3	16.9	15.0	13.5
TDVREXB05	90	1.451	71.8	57.5	47.9	35.9	28.7	23.9	20.5	18.0	16.0	14.4
	100	1.530	75.7	60.6	50.5	37.9	30.3	25.2	21.6	18.9	16.8	15.1

Tabulation Based on Spraying Water at 70° F.

- 4-5 Times Flow Rate at Constant Speed *(variable rate applications)*
- 4-5 Times Speed Range at Constant GPA Rate *(variable speed applications)*
- New Airless Design for Wider Operating Range
- Use Flow Control Systems with Meters for Best Accuracy
- 10 - 140 PSI Operating Range
- Easy-to-Clean
- Recommended Boom Height 18" to 36"

Part No.

GT TDVRHB015 thru **GT** TDVRHB05 — TurboDrop® Variable Rate Hose Barb (3/8") Nozzle .....

GT TDVRF015 thru **GT** TDVRF05 — TurboDrop® Variable Rate Nozzles, 6 Hole Stream .....

GT TDVREX015 thru **GT** TDVREX05 — TurboDrop® Variable Rate Nozzles With QuickJet Extension

GT TDVRC015 thru **GT** TDVRC05 — TurboDrop® Variable Rate Venturi Orifice Only .....

CALL FOR CURRENT PRICING