

TURBODROP®



TurboDrop® Variable Rate Fertilizer Nozzle

**TURBODROP®
VARIABLE RATE
FERTILIZER
(TDVRF)**



TDVRF015
TDVRF02
TDVRF03
TDVRF05

**TURBODROP®
VARIABLE RATE
FERTILIZER
HOSE BARB
(TDVRHB)**



TDVRHB015
TDVRHB02
TDVRHB03
TDVRHB05

The TurboDrop Variable Rate fertilizer nozzle is designed to apply liquid fertilizer at a 4-5x flow rate range to allow for varying fertilizer requirements of the target crop. It is available in a six hole streaming version (TDVRF) for use on standard sprayers, and a hose barb version (TDVRHB) for tool bars, nitrogen applicators and other dedicated fertilizer rigs.

The TurboDrop Variable Rate may be operated from 10-140 psi, allowing up to a 5x rate change at a given speed. Additionally, 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. New check valve (MKII) design improves flow accuracy to ± 5%.

The TDVRF and TDVRHB are now "airless," providing a wider operating range, and eliminating the possibility of fertilizer spitting from the side.

Pressure Range: 10-140 psi **Materials of Construction:** Polyacetal, stainless steel, EPDM

TDVRHB015		TDVRF015		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING *															
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.123	12.2	9.1	7.3	6.1	5.2	4.6	4.1	3.7	3.3	3.0	2.8	2.6	2.4	2.3	2.1	2.0	1.8			
20	0.174	17.2	12.9	10.3	8.6	7.4	6.5	5.7	5.2	4.7	4.3	4.0	3.7	3.4	3.2	3.0	2.9	2.6			
30	0.266	26.3	19.8	15.8	13.2	11.3	9.9	8.8	7.9	7.2	6.6	6.1	5.6	5.3	4.9	4.6	4.4	4.0			
40	0.350	34.7	26.0	20.8	17.3	14.9	13.0	11.6	10.4	9.5	8.7	8.0	7.4	6.9	6.5	6.1	5.8	5.2			
50	0.391	38.7	29.0	23.2	19.4	16.6	14.5	12.9	11.6	10.6	9.7	8.9	8.3	7.7	7.3	6.8	6.5	5.8			
60	0.443	43.9	32.9	26.3	21.9	18.8	16.4	14.6	13.2	12.0	11.0	10.1	9.4	8.8	8.2	7.7	7.3	6.6			
70	0.483	47.8	35.9	28.7	23.9	20.5	17.9	15.9	14.3	13.0	12.0	11.0	10.2	9.6	9.0	8.4	8.0	7.2			
80	0.516	51.1	38.3	30.7	25.5	21.9	19.2	17.0	15.3	13.9	12.8	11.8	10.9	10.2	9.6	9.0	8.5	7.7			
100	0.566	56.0	42.0	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.9	9.3	8.4			
120	0.620	61.4	46.0	36.8	30.7	26.3	23.0	20.5	18.4	16.7	15.3	14.2	13.2	12.3	11.5	10.8	10.2	9.2			
140	0.670	66.3	49.7	39.8	33.2	28.4	24.9	22.1	19.9	18.1	16.6	15.3	14.2	13.3	12.4	11.7	11.1	9.9			
TDVRHB02		TDVRF02		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING *															
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.180	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9	4.5	4.1	3.8	3.6	3.3	3.1	3.0	2.7			
20	0.251	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.5	6.8	6.2	5.7	5.3	5.0	4.7	4.4	4.1	3.7			
30	0.384	38.0	28.5	22.8	19.0	16.3	14.3	12.7	11.4	10.4	9.5	8.8	8.1	7.6	7.1	6.7	6.3	5.7			
40	0.512	50.7	38.0	30.4	25.3	21.7	19.0	16.9	15.2	13.8	12.7	11.7	10.9	10.1	9.5	8.9	8.4	7.6			
50	0.575	56.9	42.7	34.2	28.5	24.4	21.3	19.0	17.1	15.5	14.2	13.1	12.2	11.4	10.7	10.0	9.5	8.5			
60	0.653	64.6	48.5	38.8	32.3	27.7	24.2	21.5	19.4	17.6	16.2	14.9	13.9	12.9	12.1	11.4	10.8	9.7			
70	0.696	68.9	51.7	41.3	34.5	29.5	25.8	23.0	20.7	18.8	17.2	15.9	14.8	13.8	12.9	12.2	11.5	10.3			
80	0.744	73.7	55.2	44.2	36.8	31.6	27.6	24.6	22.1	20.1	18.4	17.0	15.8	14.7	13.8	13.0	12.3	11.0			
100	0.821	81.3	61.0	48.8	40.6	34.8	30.5	27.1	24.4	22.2	20.3	18.8	17.4	16.3	15.2	14.3	13.5	12.2			
120	0.900	89.1	66.8	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	17.8	16.7	15.7	14.9	13.4			
140	0.972	96.2	72.2	57.7	48.1	41.2	36.1	32.1	28.9	26.2	24.1	22.2	20.6	19.2	18.0	17.0	16.0	14.4			
TDVRHB03		TDVRF03		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING *															
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.230	22.8	17.1	13.7	11.4	9.8	8.5	7.6	6.8	6.2	5.7	5.3	4.9	4.6	4.3	4.0	3.8	3.4			
20	0.326	32.3	24.2	19.4	16.1	13.8	12.1	10.8	9.7	8.8	8.1	7.4	6.9	6.5	6.1	5.7	5.4	4.8			
30	0.492	48.7	36.5	29.2	24.4	20.9	18.3	16.2	14.6	13.3	12.2	11.2	10.4	9.7	9.1	8.6	8.1	7.3			
40	0.661	65.4	49.1	39.3	32.7	28.0	24.5	21.8	19.6	17.8	16.4	15.1	14.0	13.1	12.3	11.5	10.9	9.8			
50	0.739	73.2	54.9	43.9	36.6	31.4	27.4	24.4	21.9	20.0	18.3	16.9	15.7	14.6	13.7	12.9	12.2	11.0			
60	0.825	81.7	61.3	49.0	40.8	35.0	30.6	27.2	24.5	22.3	20.4	18.8	17.5	16.3	15.3	14.4	13.6	12.3			
70	0.885	87.6	65.7	52.6	43.8	37.5	32.9	29.2	26.3	23.9	21.9	20.2	18.8	17.5	16.4	15.5	14.6	13.1			
80	0.943	93.4	70.0	56.0	46.7	40.0	35.0	31.1	28.0	25.5	23.3	21.5	20.0	18.7	17.5	16.5	15.6	14.0			
100	1.054	104.3	78.3	62.6	52.2	44.7	39.1	34.8	31.3	28.5	26.1	24.1	22.4	20.9	19.6	18.4	17.4	15.7			
120	1.154	114.2	85.7	68.5	57.1	49.0	42.8	38.1	34.3	31.2	28.6	26.4	24.5	22.8	21.4	20.2	19.0	17.1			
140	1.247	123.5	92.6	74.1	61.7	52.9	46.3	41.2	37.0	33.7	30.9	28.5	26.5	24.7	23.1	21.8	20.6	18.5			
TDVRHB05		TDVRF05		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING *															
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.454	44.9	33.7	27.0	22.5	19.3	16.9	15.0	13.5	12.3	11.2	10.4	9.6	9.0	8.4	7.9	7.5	6.7			
20	0.642	63.6	47.7	38.1	31.8	27.2	23.8	21.2	19.1	17.3	15.9	14.7	13.6	12.7	11.9	11.2	10.6	9.5			
30	0.758	75.0	56.3	45.0	37.5	32.2	28.1	25.0	22.5	20.5	18.8	17.3	16.1	15.0	14.1	13.2	12.5	11.3			
40	0.930	92.1	69.1	55.2	46.0	39.5	34.5	30.7	27.6	25.1	23.0	21.2	19.7	18.4	17.3	16.2	15.3	13.8			
50	1.039	102.9	77.1	61.7	51.4	44.1	38.6	34.3	30.9	28.1	25.7	23.7	22.0	20.6	19.3	18.2	17.1	15.4			
60	1.091	108.0	81.0	64.8	54.0	46.3	40.5	36.0	32.4	29.5	27.0	24.9	23.1	21.6	20.3	19.1	18.0	16.2			
70	1.269	125.6	94.2	75.4	62.8	53.8	47.1	41.9	37.7	34.3	31.4	29.0	26.9	25.1	23.6	22.2	20.9	18.8			
80	1.368	135.4	101.6	81.3	67.7	58.0	50.8	45.1	40.6	36.9	33.9	31.3	29.0	27.1	25.4	23.9	22.6	20.3			
100	1.530	151.5	113.6	90.9	75.7	64.9	56.8	50.5	45.4	41.3	37.9	35.0	32.5	30.3	28.4	26.7	25.2	22.7			
120	1.676	165.9	124.4	99.6	83.0	71.1	62.2	55.3	49.8	45.3	41.5	38.3	35.6	33.2	31.1	29.3	27.7	24.9			
140	1.810	179.2	134.4	107.5	89.6	76.8	67.2	59.7	53.8	48.9	44.8	41.4	38.4	35.8	33.6	31.6	29.9	26.9			

* For alternate nozzle spacing, please contact Greenleaf Technologies or visit our website.