

# TURBODROP®



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

TDVRF015  
TDVRF02  
TDVRF03  
TDVRF05

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

TDVRHB015  
TDVRHB02  
TDVRHB03  
TDVRHB05

**TURBODROP®  
VARIABLE RATE  
FERTILIZER  
QUICK CONNECT  
(TDVREX)**

TDVREX015  
TDVREX02  
TDVREX03  
TDVREX05

## TurboDrop® Variable Rate Fertilizer Nozzle

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. 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, TDVREX, and TDVRHB can maintain a constant gpa rate over a 5x speed change. The TurboDrop Variable Rate check valve design keeps flow accuracy to ± 5%.

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, and the TDVREX a quick connect, for ease of installation on fertilizer rigs, replacing standard orifice discs.

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

TDVRF015	Press.	Flow	GALLONS PER ACRE BASED ON 30" NOZZLE SPACING *																	
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	
	10	0.123	8.1	6.1	4.9	4.1	3.5	3.0	2.7	2.4	2.2	2.0	1.9	1.7	1.6	1.5	1.4	1.4	1.2	
20	0.174	11.5	8.6	6.9	5.7	4.9	4.3	3.8	3.4	3.1	2.9	2.7	2.5	2.3	2.2	2.0	1.9	1.7		
30	0.266	17.6	13.2	10.5	8.8	7.5	6.6	5.9	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	2.6		
40	0.350	23.1	17.3	13.9	11.6	9.9	8.7	7.7	6.9	6.3	5.8	5.3	5.0	4.6	4.3	4.1	3.9	3.5		
50	0.391	25.8	19.4	15.5	12.9	11.1	9.7	8.6	7.7	7.0	6.5	6.0	5.5	5.2	4.8	4.6	4.3	3.9		
60	0.443	29.2	21.9	17.5	14.6	12.5	11.0	9.7	8.8	8.0	7.3	6.7	6.3	5.8	5.5	5.2	4.9	4.4		
70	0.483	31.9	23.9	19.1	15.9	13.7	12.0	10.6	9.6	8.7	8.0	7.4	6.8	6.4	6.0	5.6	5.3	4.8		
80	0.516	34.1	25.5	20.4	17.0	14.6	12.8	11.4	10.2	9.3	8.5	7.9	7.3	6.8	6.4	6.0	5.7	5.1		
100	0.566	37.4	28.0	22.4	18.7	16.0	14.0	12.5	11.2	10.2	9.3	8.6	8.0	7.5	7.0	6.6	6.2	5.6		
120	0.620	40.9	30.7	24.6	20.5	17.5	15.3	13.6	12.3	11.2	10.2	9.4	8.8	8.2	7.7	7.2	6.8	6.1		
140	0.670	44.2	33.2	26.5	22.1	19.0	16.6	14.7	13.3	12.1	11.1	10.2	9.5	8.8	8.3	7.8	7.4	6.6		
TDVRHB02	Press.	Flow	GALLONS PER ACRE BASED ON 30" NOZZLE SPACING *																	
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	
	10	0.180	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2	3.0	2.7	2.5	2.4	2.2	2.1	2.0	1.8	
20	0.251	16.6	12.4	9.9	8.3	7.1	6.2	5.5	5.0	4.5	4.1	3.8	3.5	3.3	3.1	2.9	2.8	2.5		
30	0.384	25.3	19.0	15.2	12.7	10.9	9.5	8.4	7.6	6.9	6.3	5.8	5.4	5.1	4.8	4.5	4.2	3.8		
40	0.512	33.8	25.3	20.3	16.9	14.5	12.7	11.3	10.1	9.2	8.4	7.8	7.2	6.8	6.3	6.0	5.6	5.1		
50	0.575	38.0	28.5	22.8	19.0	16.3	14.2	12.7	11.4	10.4	9.5	8.8	8.1	7.6	7.1	6.7	6.3	5.7		
60	0.653	43.1	32.3	25.9	21.5	18.5	16.2	14.4	12.9	11.8	10.8	9.9	9.2	8.6	8.1	7.6	7.2	6.5		
70	0.696	45.9	34.5	27.6	23.0	19.7	17.2	15.3	13.8	12.5	11.5	10.6	9.8	9.2	8.6	8.1	7.7	6.9		
80	0.744	49.1	36.8	29.5	24.6	21.0	18.4	16.4	14.7	13.4	12.3	11.3	10.5	9.8	9.2	8.7	8.2	7.4		
100	0.821	54.2	40.6	32.5	27.1	23.2	20.3	18.1	16.3	14.8	13.5	12.5	11.6	10.8	10.2	9.6	9.0	8.1		
120	0.900	59.4	44.6	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	10.5	9.9	8.9		
140	0.972	64.2	48.1	38.5	32.1	27.5	24.1	21.4	19.2	17.5	16.0	14.8	13.7	12.8	12.0	11.3	10.7	9.6		
TDVREX03	Press.	Flow	GALLONS PER ACRE BASED ON 30" NOZZLE SPACING *																	
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	
	10	0.230	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6	4.1	3.8	3.5	3.3	3.0	2.8	2.7	2.5	2.3	
20	0.326	21.5	16.1	12.9	10.8	9.2	8.1	7.2	6.5	5.9	5.4	5.0	4.6	4.3	4.0	3.8	3.6	3.2		
30	0.492	32.5	24.4	19.5	16.2	13.9	12.2	10.8	9.7	8.9	8.1	7.5	7.0	6.5	6.1	5.7	5.4	4.9		
40	0.661	43.6	32.7	26.2	21.8	18.7	16.4	14.5	13.1	11.9	10.9	10.1	9.3	8.7	8.2	7.7	7.3	6.5		
50	0.739	48.8	36.6	29.3	24.4	20.9	18.3	16.3	14.6	13.3	12.2	11.3	10.5	9.8	9.1	8.6	8.1	7.3		
60	0.825	54.5	40.8	32.7	27.2	23.3	20.4	18.2	16.3	14.9	13.6	12.6	11.7	10.9	10.2	9.6	9.1	8.2		
70	0.885	58.4	43.8	35.0	29.2	25.0	21.9	19.5	17.5	15.9	14.6	13.5	12.5	11.7	11.0	10.3	9.7	8.8		
80	0.943	62.2	46.7	37.3	31.1	26.7	23.3	20.7	18.7	17.0	15.6	14.4	13.3	12.4	11.7	11.0	10.4	9.3		
100	1.054	69.6	52.2	41.7	34.8	29.8	26.1	23.2	20.9	19.0	17.4	16.1	14.9	13.9	13.0	12.3	11.6	10.4		
120	1.154	76.2	57.1	45.7	38.1	32.6	28.6	25.4	22.8	20.8	19.0	17.6	16.3	15.2	14.3	13.4	12.7	11.4		
140	1.247	82.3	61.7	49.4	41.2	35.3	30.9	27.4	24.7	22.4	20.6	19.0	17.6	16.5	15.4	14.5	13.7	12.3		
TDVRF05	Press.	Flow	GALLONS PER ACRE BASED ON 30" NOZZLE SPACING *																	
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	
	10	0.454	30.0	22.5	18.0	15.0	12.8	11.2	10.0	9.0	8.2	7.5	6.9	6.4	6.0	5.6	5.3	5.0	4.5	
20	0.642	42.4	31.8	25.4	21.2	18.2	15.9	14.1	12.7	11.6	10.6	9.8	9.1	8.5	7.9	7.5	7.1	6.4		
30	0.758	50.0	37.5	30.0	25.0	21.4	18.8	16.7	15.0	13.6	12.5	11.5	10.7	10.0	9.4	8.8	8.3	7.5		
40	0.930	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		
50	1.039	68.6	51.4	41.1	34.3	29.4	25.7	22.9	20.6	18.7	17.1	15.8	14.7	13.7	12.9	12.1	11.4	10.3		
60	1.091	72.0	54.0	43.2	36.0	30.9	27.0	24.0	21.6	19.6	18.0	16.6	15.4	14.4	13.5	12.7	12.0	10.8		
70	1.269	83.8	62.8	50.3	41.9	35.9	31.4	27.9	25.1	22.8	20.9	19.3	17.9	16.8	15.7	14.8	14.0	12.6		
80	1.368	90.3	67.7	54.2	45.1	38.7	33.9	30.1	27.1	24.6	22.6	20.8	19.3	18.1	16.9	15.9	15.0	13.5		
100	1.530	101.0	75.7	60.6	50.5	43.3	37.9	33.7	30.3	27.5	25.2	23.3	21.6	20.2	18.9	17.8	16.8	15.1		
120	1.676	110.6	83.0	66.4	55.3	47.4	41.5	36.9	33.2	30.2	27.7	25.5	23.7	22.1	20.7	19.5	18.4	16.6		
140	1.810	119.5	89.6	71.7	59.7	51.2	44.8	39.8	35.8	32.6	29.9	27.6	25.6	23.9	22.4	21.1	19.9	17.9		

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