

TURBO DROP®



TURBODROP® VARIABLE RATE 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 $\pm 5\%$.

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 $\frac{3}{8}$ " 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 15" NOZZLE SPACING *															
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	20	30	40	50	60	70	80	100	120	140	15	16	17	18	19	20	21	22
 (approx. ISO 015-03)	10	0.123	16.2	12.2	9.8	8.2	7.0	6.0	5.4	4.8	4.4	4.0	3.8	3.4	3.2	3.0	2.8	2.4
	20	0.174	23.0	17.2	13.8	11.4	9.8	8.6	7.6	6.8	6.2	5.8	5.4	5.0	4.6	4.4	4.0	3.4
	30	0.266	35.2	26.4	21.0	17.6	15.0	13.2	11.8	10.6	9.6	8.8	8.2	7.6	7.0	6.6	6.2	5.2
	40	0.350	46.2	34.6	27.8	23.2	19.8	17.4	15.4	13.8	12.6	11.6	10.6	10.0	9.2	8.6	8.2	7.0
	50	0.391	51.6	38.8	31.0	25.8	22.2	19.4	17.2	15.4	14.0	13.0	12.0	11.0	10.4	9.6	9.2	7.8
	60	0.443	58.4	43.8	35.0	29.2	25.0	22.0	19.4	17.6	16.0	14.6	13.4	12.6	11.6	11.0	10.4	8.8
	70	0.483	63.8	47.8	38.2	31.8	27.4	24.0	21.2	19.2	17.4	16.0	14.8	13.6	12.8	12.0	11.2	9.6
	80	0.516	68.2	51.0	40.8	34.0	29.2	25.6	22.8	20.4	18.6	17.0	15.8	14.6	13.6	12.8	12.0	10.2
	100	0.566	74.8	56.0	44.8	37.4	32.0	28.0	25.0	22.4	20.4	18.6	17.2	16.0	15.0	14.0	13.2	11.2
	120	0.620	81.8	61.4	49.2	41.0	35.0	30.6	27.2	24.6	22.4	20.4	18.8	17.6	16.4	15.4	14.4	12.2
	140	0.670	88.4	66.4	53.0	44.2	38.0	33.2	29.4	26.6	24.2	22.2	20.4	19.0	17.6	16.6	15.6	13.2
TDVRHB02	Press.	Flow	GALLONS PER ACRE BASED ON 15" NOZZLE SPACING *															
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	20	30	40	50	60	70	80	100	120	140	15	16	17	18	19	20	21	22
 (approx. ISO 02-04)	10	0.180	23.8	17.8	14.2	11.8	10.2	9.0	8.0	7.2	6.4	6.0	5.4	5.0	4.8	4.4	4.2	3.6
	20	0.251	33.2	24.8	19.8	16.6	14.2	12.4	11.0	10.0	9.0	8.2	7.6	7.0	6.6	6.2	5.8	5.0
	30	0.384	50.6	38.0	30.4	25.4	21.8	19.0	16.8	15.2	13.8	12.6	11.6	10.8	10.2	9.6	9.0	7.6
	40	0.512	67.6	50.6	40.6	33.8	29.0	25.4	22.6	20.2	18.4	16.8	15.6	14.4	13.6	12.6	12.0	10.2
	50	0.575	76.0	57.0	45.6	38.0	32.6	28.4	25.4	22.8	20.8	19.0	17.6	16.2	15.2	14.2	13.4	11.4
	60	0.653	86.2	64.6	51.8	43.0	37.0	32.4	28.8	25.8	23.6	21.6	19.8	18.4	17.2	16.2	15.2	13.0
	70	0.696	91.8	69.0	55.2	46.0	39.4	34.4	30.6	27.6	25.0	23.0	21.2	19.6	18.4	17.2	16.2	13.8
	80	0.744	98.2	73.6	59.0	49.2	42.0	36.8	32.8	29.4	26.8	24.6	22.6	21.0	19.6	18.4	17.4	14.8
	100	0.821	108.4	81.2	65.0	54.2	46.4	40.6	36.2	32.6	29.6	27.0	25.0	23.2	21.6	20.4	19.2	16.2
	120	0.900	118.8	89.2	71.2	59.4	51.0	44.6	39.6	35.6	32.4	29.8	27.4	25.4	23.8	22.2	21.0	17.8
	140	0.972	128.4	96.2	77.0	64.2	55.0	48.2	42.8	38.4	35.0	32.0	29.6	27.4	25.6	24.0	22.6	19.2
TDVREX03	Press.	Flow	GALLONS PER ACRE BASED ON 15" NOZZLE SPACING *															
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	20	30	40	50	60	70	80	100	120	140	15	16	17	18	19	20	21	22
 (approx. ISO 03-06)	10	0.230	30.4	22.8	18.2	15.2	13.0	11.4	10.2	9.2	8.2	7.6	7.0	6.6	6.0	5.6	5.4	4.6
	20	0.326	43.0	32.2	25.8	21.6	18.4	16.2	14.4	13.0	11.8	10.8	10.0	9.2	8.6	8.0	7.6	6.4
	30	0.492	65.0	48.8	39.0	32.4	27.8	24.4	21.6	19.4	17.8	16.2	15.0	14.0	13.0	12.2	11.4	9.8
	40	0.661	87.2	65.4	52.4	43.6	37.4	32.8	29.0	26.2	23.8	21.8	20.2	18.6	17.4	16.4	15.4	13.0
	50	0.739	97.6	73.2	58.6	48.8	41.8	36.6	32.6	29.2	26.6	24.4	22.6	21.0	19.6	18.2	17.2	14.6
	60	0.825	109.0	81.6	65.4	54.4	46.6	40.8	36.4	32.6	29.8	27.2	25.2	23.4	21.8	20.4	19.2	16.4
	70	0.885	116.8	87.6	70.0	58.4	50.0	43.8	39.0	35.0	31.8	29.2	27.0	25.0	23.4	22.0	20.6	17.6
	80	0.943	124.4	93.4	74.6	62.2	53.4	46.6	41.4	37.4	34.0	31.2	28.8	26.6	24.8	23.4	22.0	18.6
	100	1.054	139.2	104.4	83.4	69.6	59.6	52.2	46.4	41.8	38.0	34.8	32.2	29.8	27.8	26.0	24.6	20.8
	120	1.154	152.4	114.2	91.4	76.2	65.2	57.2	50.8	45.6	41.6	38.0	35.2	32.6	30.4	28.6	26.8	22.8
	140	1.247	164.6	123.4	98.8	82.4	70.6	61.8	54.8	49.4	44.8	41.2	38.0	35.2	33.0	30.8	29.0	24.6
TDVRF05	Press.	Flow	GALLONS PER ACRE BASED ON 15" NOZZLE SPACING *															
	PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	20	30	40	50	60	70	80	100	120	140	15	16	17	18	19	20	21	22
 (approx. ISO 05-10)	10	0.454	60.0	45.0	36.0	30.0	25.6	22.4	20.0	18.0	16.4	15.0	13.8	12.8	12.0	11.2	10.6	9.0
	20	0.642	84.8	63.6	50.8	42.4	36.4	31.8	28.2	25.4	23.2	21.2	19.6	18.2	17.0	15.8	15.0	14.2
	30	0.758	100.0	75.0	60.0	50.0	42.8	37.6	33.4	30.0	27.2	25.0	23.0	21.4	20.0	18.8	17.6	15.0
	40	0.930	122.8	92.0	73.6	61.4	52.6	46.0	41.0	36.8	33.4	30.6	28.4	26.4	24.6	23.0	21.6	18.4
	50	1.039	137.2	102.8	82.2	68.6	58.6	51.4	45.8	41.2	37.4	34.2	31.6	29.4	27.4	25.8	24.2	20.6
	60	1.091	144.0	108.0	86.4	72.0	61.8	54.0	48.0	43.2	39.2	36.0	33.2	30.8	28.8	27.0	25.4	21.6
	70	1.269	167.6	125.6	100.6	83.8	71.8	62.8	55.8	50.2	45.6	41.8	38.6	35.8	33.6	31.4	29.6	25.2
	80	1.368	180.6	135.4	108.4	90.2	77.4	67.8	60.2	54.2	49.2	45.2	41.6	38.6	36.2	33.8	31.8	27.0
	100	1.530	202.0	151.4	121.2	101.0	86.6	75.8	67.4	60.6	55.0	50.4	46.6	43.2	40.4	37.8	35.6	30.2
	120	1.676	221.2	166.0	132.8	110.6	94.8	83.0	73.8	66.4	60.4	55.4	51.0	47.4	44.2	41.4	39.0	33.2
	140	1.810	239.0	179.2	143.4	119.4	102.4	89.6	79.6	71.6	65.2	59.8	55.2	51.2	47.8	44.8	42.2	35.8

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