2021 Nozzle & Orifice Guide

Issued November 1, 2021

v2020.04

360 Nozzle & Orifice Guide

Table of Contents

Content	Page Number(s)
Guidelines and Conversion Factors	2
VR Nozzles Rate Charts	3 - 6
Disk Orifice Rate Charts	7 - 18

Orifice and Nozzle Rate Guidelines

1. It is assumed that your application (360 Y-DROP or 360 BANDIT) will apply two bands of nutrients (one on each side of the plant base.) With Y-drop this occurs by running a base unit between every row.
2. Your specific machine's application pressure may not reach the entire range displayed in the orifce & nozzle flow rate tables. Please be sure to take the capability of the specific sprayer or system into consideration prior to size selection.
3. When applying solutions other than UAN, application rates may vary due to product weight. Example - Ammonium Thiosulfate or Potassium Thiosulfate (you will need to use the proper conversion factor based on that nutrient).
4. To accommodate the fact that the outermost drag hoses only apply to one side of the row on most 360 Y-DROP systems, the outermost orifice plate will need to have double the capacity in order to apply a full rate to the row. The **Double Rate Correlation Table** below shows which orifice plates will need to be included for the outermost drag hose on each side of the sprayer.

Solution Properties		
Solution	**Density of Solution lbs/gal.**	**Conversion Factor unitless**
UAN (28%)	10.65	1.13
UAN (32%)	11.08	1.15
Water	8.34	1

Double Rate Correlation Orifice Plate Sizes Standard Application Sizes		
Inside rows		**Outside rows**
48	→	73
57	→	78
61	→	91
73	→	103
78	→	110
91	→	132
High Volume Applications - Some sizes not stocked		
103	→	172
110	→	196
132	→	234

UAN Constants

- UAN (28%) - Weight per gallon 10.65 lbs @ 28% Nitrogen = **2.98 lbs N per gallon 28%**
- UAN (32%) - Weight per gallon 11.08 lbs @ 32% Nitrogen = **3.55 lbs N per gallon 32%**

EXAMPLE #1: Desire to apply 50 lbs Nitrogen using 32% UAN

$$\frac{\textbf{50}\ (\text{lbs N})}{\textbf{3.55}\ (\text{lbs. N per gallon UAN 32\%})} = \textbf{14.08 GPA}$$

- You would need to apply 14.08 GPA of product
- Based on 32% weight per gallon vs. water you MUST apply a conversion factor for accurate application:
  14.08 (based on 32% UAN) × **1.15** (32% Conversion factor) = **16.19 GPA** (this is the GPA you reference in the chart).
- Utilize Rate Charts for Orifices or Variable Rate Nozzles attached - look at speed and rate range on charts based on 16.19 GPA to apply your target rate of 50 lbs N using 32% UAN (make sure to use chart based on your row spacing).

EXAMPLE #2: Desire to apply 50 lbs Nitrogen using 28% UAN

$$\frac{\textbf{50}\ (\text{lbs N})}{\textbf{2.98}\ (\text{lbs. N per gallon UAN 28\%})} = \textbf{16.78 GPA}$$

- You would need to apply 16.78 GPA of product
- Based on 28% weight per gallon vs. water you MUST apply a conversion factor for accurate application.
  16.78 (Based on 28% UAN) × **1.13** (28% Conversion factor) = **18.96** GPA (this is the GPA you reference in the chart).
- Utilize Rate Charts for Orifices or Variable Rate Nozzles attached - look at speed and rate range on charts based on 18.96 GPA to apply your target rate of 50 lbs N using 28% UAN (make sure to use chart based on your row spacing).

EXAMPLE #3: Desire to apply 40 GPA using 28% UAN

- Based on 28% weight per gallon vs. water you MUST apply a conversion factor for accurate application.
  40 (GPA 28%) × **1.13** (28% Conversion factor) = **45.2 GPA** (this is the GPA you reference in the chart).
- Utilize Rate Charts for Orifices or Variable Rate Nozzles attached - look at speed and rate range on charts based on 45.2 GPA to apply your target rate of 40 GPA using 28% UAN (make sure to use chart based on your row spacing).

Other Considerations

- For row widths other than 20”, 30” or 38", special consideration will need to be made to convert the rate tables into the correct values.
- Charts attached are made based on our recommended application of placing nutrients in a band on each side of the row. If application is only applied in a band on one side of the row, rate table values will need to be multiplied by two.

Turbo Drop Variable Rate Nozzle Rate Chart: TDVRF015

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
20	0.174	34.5	25.8	20.7	17.2	14.8	12.9	11.5	10.3	9.4	8.6	8.0	7.4	6.9	6.5	6.1	5.7	5.2
30	0.266	52.7	39.5	31.6	26.3	22.6	19.8	17.6	15.8	14.4	13.2	12.2	11.3	10.5	9.9	9.3	8.8	7.9
40	0.350	69.3	52.0	41.6	34.7	29.7	26.0	23.1	20.8	18.9	17.3	16.0	14.9	13.9	13.0	12.2	11.6	10.4
50	0.391	77.4	58.1	46.5	38.7	33.2	29.0	25.8	23.2	21.1	19.4	17.9	16.6	15.5	14.5	13.7	12.9	11.6
60	0.443	87.7	65.8	52.6	43.9	37.6	32.9	29.2	26.3	23.9	21.9	20.2	18.8	17.5	16.4	15.5	14.6	13.2
70	0.483	95.6	71.7	57.4	47.8	41.0	35.9	31.9	28.7	26.1	23.9	22.1	20.5	19.1	17.9	16.9	15.9	14.3
80	0.516	102.2	76.6	61.3	51.1	43.8	38.3	34.1	30.7	27.9	25.5	23.6	21.9	20.4	19.2	18.0	17.0	15.3
90	0.537	106.3	79.7	63.8	53.2	45.6	39.9	35.4	31.9	29.0	26.6	24.5	22.8	21.3	19.9	18.8	17.7	15.9
100	0.566	112.1	84.1	67.2	56.0	48.0	42.0	37.4	33.6	30.6	28.0	25.9	24.0	22.4	21.0	19.8	18.7	16.8
120	0.620	122.8	92.1	73.7	61.4	52.6	46.0	40.9	36.8	33.5	30.7	28.3	26.3	24.6	23.0	21.7	20.5	18.4
140	0.670	132.7	99.5	79.6	66.3	56.9	49.7	44.2	39.8	36.2	33.2	30.6	28.4	26.5	24.9	23.4	22.1	19.9

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
20	0.174	23.0	17.2	13.8	11.5	9.8	8.6	7.7	6.9	6.3	5.7	5.3	4.9	4.6	4.3	4.1	3.8	3.4
30	0.266	35.1	26.3	21.1	17.6	15.0	13.2	11.7	10.5	9.6	8.8	8.1	7.5	7.0	6.6	6.2	5.9	5.3
40	0.350	46.2	34.7	27.7	23.1	19.8	17.3	15.4	13.9	12.6	11.6	10.7	9.9	9.2	8.7	8.2	7.7	6.9
50	0.391	51.6	38.7	31.0	25.8	22.1	19.4	17.2	15.5	14.1	12.9	11.9	11.1	10.3	9.7	9.1	8.6	7.7
60	0.443	58.5	43.9	35.1	29.2	25.1	21.9	19.5	17.5	15.9	14.6	13.5	12.5	11.7	11.0	10.3	9.7	8.8
70	0.483	63.8	47.8	38.3	31.9	27.3	23.9	21.3	19.1	17.4	15.9	14.7	13.7	12.8	12.0	11.3	10.6	9.6
80	0.516	68.1	51.1	40.9	34.1	29.2	25.5	22.7	20.4	18.6	17.0	15.7	14.6	13.6	12.8	12.0	11.4	10.2
90	0.537	70.9	53.2	42.5	35.4	30.4	26.6	23.6	21.3	19.3	17.7	16.4	15.2	14.2	13.3	12.5	11.8	10.6
100	0.566	74.7	56.0	44.8	37.4	32.0	28.0	24.9	22.4	20.4	18.7	17.2	16.0	14.9	14.0	13.2	12.5	11.2
120	0.620	81.8	61.4	49.1	40.9	35.1	30.7	27.3	24.6	22.3	20.5	18.9	17.5	16.4	15.3	14.4	13.6	12.3
140	0.670	88.4	66.3	53.1	44.2	37.9	33.2	29.5	26.5	24.1	22.1	20.4	19.0	17.7	16.6	15.6	14.7	13.3

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	GPM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
20	0.174	18.1	13.6	10.9	9.1	7.8	6.8	6.0	5.4	4.9	4.5	4.2	3.9	3.6	3.4	3.2	3.0	2.7
30	0.266	27.7	20.8	16.6	13.9	11.9	10.4	9.2	8.3	7.6	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.2
40	0.350	36.5	27.4	21.9	18.2	15.6	13.7	12.2	10.9	9.9	9.1	8.4	7.8	7.3	6.8	6.4	6.1	5.5
50	0.391	40.7	30.6	24.4	20.4	17.5	15.3	13.6	12.2	11.1	10.2	9.4	8.7	8.1	7.6	7.2	6.8	6.1
60	0.443	46.2	34.6	27.7	23.1	19.8	17.3	15.4	13.8	12.6	11.5	10.7	9.9	9.2	8.7	8.1	7.7	6.9
70	0.483	50.3	37.8	30.2	25.2	21.6	18.9	16.8	15.1	13.7	12.6	11.6	10.8	10.1	9.4	8.9	8.4	7.6
80	0.516	53.8	40.3	32.3	26.9	23.0	20.2	17.9	16.1	14.7	13.4	12.4	11.5	10.8	10.1	9.5	9.0	8.1
90	0.537	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
100	0.566	59.0	44.2	35.4	29.5	25.3	22.1	19.7	17.7	16.1	14.7	13.6	12.6	11.8	11.1	10.4	9.8	8.8
120	0.620	64.6	48.5	38.8	32.3	27.7	24.2	21.5	19.4	17.6	16.2	14.9	13.8	12.9	12.1	11.4	10.8	9.7
140	0.670	69.8	52.4	41.9	34.9	29.9	26.2	23.3	20.9	19.0	17.5	16.1	15.0	14.0	13.1	12.3	11.6	10.5

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*Values within +/-5% of actual

Turbo Drop Variable Rate Nozzle Rate Chart: TDVRF02

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.251**	49.7	37.3	29.8	24.8	21.3	18.6	16.6	14.9	13.6	12.4	11.5	10.6	9.9	9.3	8.8	8.3	7.5
30	**0.384**	76.0	57.0	45.6	38.0	32.6	28.5	25.3	22.8	20.7	19.0	17.5	16.3	15.2	14.3	13.4	12.7	11.4
40	**0.512**	101.4	76.0	60.8	50.7	43.4	38.0	33.8	30.4	27.6	25.3	23.4	21.7	20.3	19.0	17.9	16.9	15.2
50	**0.575**	113.9	85.4	68.3	56.9	48.8	42.7	38.0	34.2	31.1	28.5	26.3	24.4	22.8	21.3	20.1	19.0	17.1
60	**0.653**	129.3	97.0	77.6	64.6	55.4	48.5	43.1	38.8	35.3	32.3	29.8	27.7	25.9	24.2	22.8	21.5	19.4
70	**0.696**	137.8	103.4	82.7	68.9	59.1	51.7	45.9	41.3	37.6	34.5	31.8	29.5	27.6	25.8	24.3	23.0	20.7
80	**0.744**	147.3	110.5	88.4	73.7	63.1	55.2	49.1	44.2	40.2	36.8	34.0	31.6	29.5	27.6	26.0	24.6	22.1
90	**0.779**	154.2	115.7	92.5	77.1	66.1	57.8	51.4	46.3	42.1	38.6	35.6	33.1	30.8	28.9	27.2	25.7	23.1
100	**0.821**	162.6	121.9	97.5	81.3	69.7	61.0	54.2	48.8	44.3	40.6	37.5	34.8	32.5	30.5	28.7	27.1	24.4
120	**0.900**	178.2	133.7	106.9	89.1	76.4	66.8	59.4	53.5	48.6	44.6	41.1	38.2	35.6	33.4	31.4	29.7	26.7
140	**0.972**	192.5	144.3	115.5	96.2	82.5	72.2	64.2	57.7	52.5	48.1	44.4	41.2	38.5	36.1	34.0	32.1	28.9

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.251**	33.1	24.8	19.9	16.6	14.2	12.4	11.0	9.9	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.5	5.0
30	**0.384**	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
40	**0.512**	67.6	50.7	40.6	33.8	29.0	25.3	22.5	20.3	18.4	16.9	15.6	14.5	13.5	12.7	11.9	11.3	10.1
50	**0.575**	75.9	56.9	45.5	38.0	32.5	28.5	25.3	22.8	20.7	19.0	17.5	16.3	15.2	14.2	13.4	12.7	11.4
60	**0.653**	86.2	64.6	51.7	43.1	36.9	32.3	28.7	25.9	23.5	21.5	19.9	18.5	17.2	16.2	15.2	14.4	12.9
70	**0.696**	91.9	68.9	55.1	45.9	39.4	34.5	30.6	27.6	25.1	23.0	21.2	19.7	18.4	17.2	16.2	15.3	13.8
80	**0.744**	98.2	73.7	58.9	49.1	42.1	36.8	32.7	29.5	26.8	24.6	22.7	21.0	19.6	18.4	17.3	16.4	14.7
90	**0.779**	102.8	77.1	61.7	51.4	44.1	38.6	34.3	30.8	28.0	25.7	23.7	22.0	20.6	19.3	18.1	17.1	15.4
100	**0.821**	108.4	81.3	65.0	54.2	46.4	40.6	36.1	32.5	29.6	27.1	25.0	23.2	21.7	20.3	19.1	18.1	16.3
120	**0.900**	118.8	89.1	71.3	59.4	50.9	44.6	39.6	35.6	32.4	29.7	27.4	25.5	23.8	22.3	21.0	19.8	17.8
140	**0.972**	128.3	96.2	77.0	64.2	55.0	48.1	42.8	38.5	35.0	32.1	29.6	27.5	25.7	24.1	22.6	21.4	19.2

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.251**	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.4	3.9
30	**0.384**	40.0	30.0	24.0	20.0	17.2	15.0	13.3	12.0	10.9	10.0	9.2	8.6	8.0	7.5	7.1	6.7	6.0
40	**0.512**	53.4	40.0	32.0	26.7	22.9	20.0	17.8	16.0	14.6	13.3	12.3	11.4	10.7	10.0	9.4	8.9	8.0
50	**0.575**	59.9	44.9	36.0	30.0	25.7	22.5	20.0	18.0	16.3	15.0	13.8	12.8	12.0	11.2	10.6	10.0	9.0
60	**0.653**	68.0	51.0	40.8	34.0	29.2	25.5	22.7	20.4	18.6	17.0	15.7	14.6	13.6	12.8	12.0	11.3	10.2
70	**0.696**	72.5	54.4	43.5	36.3	31.1	27.2	24.2	21.8	19.8	18.1	16.7	15.5	14.5	13.6	12.8	12.1	10.9
80	**0.744**	77.5	58.1	46.5	38.8	33.2	29.1	25.8	23.3	21.1	19.4	17.9	16.6	15.5	14.5	13.7	12.9	11.6
90	**0.779**	81.2	60.9	48.7	40.6	34.8	30.4	27.1	24.4	22.1	20.3	18.7	17.4	16.2	15.2	14.3	13.5	12.2
100	**0.821**	85.6	64.2	51.3	42.8	36.7	32.1	28.5	25.7	23.3	21.4	19.7	18.3	17.1	16.0	15.1	14.3	12.8
120	**0.900**	93.8	70.3	56.3	46.9	40.2	35.2	31.3	28.1	25.6	23.4	21.6	20.1	18.8	17.6	16.6	15.6	14.1
140	**0.972**	101.3	76.0	60.8	50.6	43.4	38.0	33.8	30.4	27.6	25.3	23.4	21.7	20.3	19.0	17.9	16.9	15.2

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*Values within +/-5% of actual

Turbo Drop Variable Rate Nozzle Rate Chart: TDVRF03

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.326**	64.5	48.4	38.7	32.3	27.7	24.2	21.5	19.4	17.6	16.1	14.9	13.8	12.9	12.1	11.4	10.8	9.7
30	**0.492**	97.4	73.1	58.4	48.7	41.7	36.5	32.5	29.2	26.6	24.4	22.5	20.9	19.5	18.3	17.2	16.2	14.6
40	**0.661**	130.9	98.2	78.5	65.4	56.1	49.1	43.6	39.3	35.7	32.7	30.2	28.0	26.2	24.5	23.1	21.8	19.6
50	**0.739**	146.3	109.7	87.8	73.2	62.7	54.9	48.8	43.9	39.9	36.6	33.8	31.4	29.3	27.4	25.8	24.4	21.9
60	**0.825**	163.4	122.5	98.0	81.7	70.0	61.3	54.5	49.0	44.6	40.8	37.7	35.0	32.7	30.6	28.8	27.2	24.5
70	**0.885**	175.2	131.4	105.1	87.6	75.1	65.7	58.4	52.6	47.8	43.8	40.4	37.5	35.0	32.9	30.9	29.2	26.3
80	**0.943**	186.7	140.0	112.0	93.4	80.0	70.0	62.2	56.0	50.9	46.7	43.1	40.0	37.3	35.0	32.9	31.1	28.0
90	**1.000**	198.0	148.5	118.8	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	29.7
100	**1.054**	208.7	156.5	125.2	104.3	89.4	78.3	69.6	62.6	56.9	52.2	48.2	44.7	41.7	39.1	36.8	34.8	31.3
120	**1.154**	228.5	171.4	137.1	114.2	97.9	85.7	76.2	68.5	62.3	57.1	52.7	49.0	45.7	42.8	40.3	38.1	34.3
140	**1.247**	246.9	185.2	148.1	123.5	105.8	92.6	82.3	74.1	67.3	61.7	57.0	52.9	49.4	46.3	43.6	41.2	37.0

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.326**	43.0	32.3	25.8	21.5	18.4	16.1	14.3	12.9	11.7	10.8	9.9	9.2	8.6	8.1	7.6	7.2	6.5
30	**0.492**	64.9	48.7	39.0	32.5	27.8	24.4	21.6	19.5	17.7	16.2	15.0	13.9	13.0	12.2	11.5	10.8	9.7
40	**0.661**	87.3	65.4	52.4	43.6	37.4	32.7	29.1	26.2	23.8	21.8	20.1	18.7	17.5	16.4	15.4	14.5	13.1
50	**0.739**	97.5	73.2	58.5	48.8	41.8	36.6	32.5	29.3	26.6	24.4	22.5	20.9	19.5	18.3	17.2	16.3	14.6
60	**0.825**	108.9	81.7	65.3	54.5	46.7	40.8	36.3	32.7	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.2	16.3
70	**0.885**	116.8	87.6	70.1	58.4	50.1	43.8	38.9	35.0	31.9	29.2	27.0	25.0	23.4	21.9	20.6	19.5	17.5
80	**0.943**	124.5	93.4	74.7	62.2	53.3	46.7	41.5	37.3	33.9	31.1	28.7	26.7	24.9	23.3	22.0	20.7	18.7
90	**1.000**	132.0	99.0	79.2	66.0	56.6	49.5	44.0	39.6	36.0	33.0	30.5	28.3	26.4	24.8	23.3	22.0	19.8
100	**1.054**	139.1	104.3	83.5	69.6	59.6	52.2	46.4	41.7	37.9	34.8	32.1	29.8	27.8	26.1	24.6	23.2	20.9
120	**1.154**	152.3	114.2	91.4	76.2	65.3	57.1	50.8	45.7	41.5	38.1	35.2	32.6	30.5	28.6	26.9	25.4	22.8
140	**1.247**	164.6	123.5	98.8	82.3	70.5	61.7	54.9	49.4	44.9	41.2	38.0	35.3	32.9	30.9	29.0	27.4	24.7

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.326**	34.0	25.5	20.4	17.0	14.6	12.7	11.3	10.2	9.3	8.5	7.8	7.3	6.8	6.4	6.0	5.7	5.1
30	**0.492**	51.3	38.5	30.8	25.6	22.0	19.2	17.1	15.4	14.0	12.8	11.8	11.0	10.3	9.6	9.0	8.5	7.7
40	**0.661**	68.9	51.7	41.3	34.4	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
50	**0.739**	77.0	57.8	46.2	38.5	33.0	28.9	25.7	23.1	21.0	19.3	17.8	16.5	15.4	14.4	13.6	12.8	11.6
60	**0.825**	86.0	64.5	51.6	43.0	36.8	32.2	28.7	25.8	23.4	21.5	19.8	18.4	17.2	16.1	15.2	14.3	12.9
70	**0.885**	92.2	69.2	55.3	46.1	39.5	34.6	30.7	27.7	25.2	23.1	21.3	19.8	18.4	17.3	16.3	15.4	13.8
80	**0.943**	98.3	73.7	59.0	49.1	42.1	36.9	32.8	29.5	26.8	24.6	22.7	21.1	19.7	18.4	17.3	16.4	14.7
90	**1.000**	104.2	78.2	62.5	52.1	44.7	39.1	34.7	31.3	28.4	26.1	24.0	22.3	20.8	19.5	18.4	17.4	15.6
100	**1.054**	109.8	82.4	65.9	54.9	47.1	41.2	36.6	33.0	30.0	27.5	25.3	23.5	22.0	20.6	19.4	18.3	16.5
120	**1.154**	120.3	90.2	72.2	60.1	51.5	45.1	40.1	36.1	32.8	30.1	27.8	25.8	24.1	22.5	21.2	20.0	18.0
140	**1.247**	130.0	97.5	78.0	65.0	55.7	48.7	43.3	39.0	35.4	32.5	30.0	27.8	26.0	24.4	22.9	21.7	19.5

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*Values within +/-5% of actual

Turbo Drop Variable Rate Nozzle Rate Chart: TDVRF05

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.642**	127.1	95.3	76.3	63.6	54.5	47.7	42.4	38.1	34.7	31.8	29.3	27.2	25.4	23.8	22.4	21.2	19.1
30	**0.758**	150.1	112.6	90.1	75.0	64.3	56.3	50.0	45.0	40.9	37.5	34.6	32.2	30.0	28.1	26.5	25.0	22.5
40	**0.930**	184.1	138.1	110.5	92.1	78.9	69.1	61.4	55.2	50.2	46.0	42.5	39.5	36.8	34.5	32.5	30.7	27.6
50	**1.039**	205.7	154.3	123.4	102.9	88.2	77.1	68.6	61.7	56.1	51.4	47.5	44.1	41.1	38.6	36.3	34.3	30.9
60	**1.091**	216.0	162.0	129.6	108.0	92.6	81.0	72.0	64.8	58.9	54.0	49.9	46.3	43.2	40.5	38.1	36.0	32.4
70	**1.269**	251.3	188.4	150.8	125.6	107.7	94.2	83.8	75.4	68.5	62.8	58.0	53.8	50.3	47.1	44.3	41.9	37.7
80	**1.368**	270.9	203.1	162.5	135.4	116.1	101.6	90.3	81.3	73.9	67.7	62.5	58.0	54.2	50.8	47.8	45.1	40.6
90	**1.451**	287.3	215.5	172.4	143.6	123.1	107.7	95.8	86.2	78.4	71.8	66.3	61.6	57.5	53.9	50.7	47.9	43.1
100	**1.530**	302.9	227.2	181.8	151.5	129.8	113.6	101.0	90.9	82.6	75.7	69.9	64.9	60.6	56.8	53.5	50.5	45.4
120	**1.676**	331.8	248.9	199.1	165.9	142.2	124.4	110.6	99.6	90.5	83.0	76.6	71.1	66.4	62.2	58.6	55.3	49.8
140	**1.810**	358.4	268.8	215.0	179.2	153.6	134.4	119.5	107.5	97.7	89.6	82.7	76.8	71.7	67.2	63.2	59.7	53.8

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.642**	84.7	63.6	50.8	42.4	36.3	31.8	28.2	25.4	23.1	21.2	19.6	18.2	16.9	15.9	15.0	14.1	12.7
30	**0.758**	100.1	75.0	60.0	50.0	42.9	37.5	33.4	30.0	27.3	25.0	23.1	21.4	20.0	18.8	17.7	16.7	15.0
40	**0.930**	122.8	92.1	73.7	61.4	52.6	46.0	40.9	36.8	33.5	30.7	28.3	26.3	24.6	23.0	21.7	20.5	18.4
50	**1.039**	137.1	102.9	82.3	68.6	58.8	51.4	45.7	41.1	37.4	34.3	31.6	29.4	27.4	25.7	24.2	22.9	20.6
60	**1.091**	144.0	108.0	86.4	72.0	61.7	54.0	48.0	43.2	39.3	36.0	33.2	30.9	28.8	27.0	25.4	24.0	21.6
70	**1.269**	167.5	125.6	100.5	83.8	71.8	62.8	55.8	50.3	45.7	41.9	38.7	35.9	33.5	31.4	29.6	27.9	25.1
80	**1.368**	180.6	135.4	108.3	90.3	77.4	67.7	60.2	54.2	49.2	45.1	41.7	38.7	36.1	33.9	31.9	30.1	27.1
90	**1.451**	191.5	143.6	114.9	95.8	82.1	71.8	63.8	57.5	52.2	47.9	44.2	41.0	38.3	35.9	33.8	31.9	28.7
100	**1.530**	202.0	151.5	121.2	101.0	86.6	75.7	67.3	60.6	55.1	50.5	46.6	43.3	40.4	37.9	35.6	33.7	30.3
120	**1.676**	221.2	165.9	132.7	110.6	94.8	83.0	73.7	66.4	60.3	55.3	51.1	47.4	44.2	41.5	39.0	36.9	33.2
140	**1.810**	238.9	179.2	143.4	119.5	102.4	89.6	79.6	71.7	65.2	59.7	55.1	51.2	47.8	44.8	42.2	39.8	35.8

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.642**	66.9	50.2	40.1	33.5	28.7	25.1	22.3	20.1	18.2	16.7	15.4	14.3	13.4	12.5	11.8	11.2	10.0
30	**0.758**	79.0	59.2	47.4	39.5	33.9	29.6	26.3	23.7	21.5	19.7	18.2	16.9	15.8	14.8	13.9	13.2	11.8
40	**0.930**	96.9	72.7	58.1	48.5	41.5	36.3	32.3	29.1	26.4	24.2	22.4	20.8	19.4	18.2	17.1	16.2	14.5
50	**1.039**	108.3	81.2	65.0	54.1	46.4	40.6	36.1	32.5	29.5	27.1	25.0	23.2	21.7	20.3	19.1	18.0	16.2
60	**1.091**	113.7	85.3	68.2	56.8	48.7	42.6	37.9	34.1	31.0	28.4	26.2	24.4	22.7	21.3	20.1	18.9	17.1
70	**1.269**	132.2	99.2	79.3	66.1	56.7	49.6	44.1	39.7	36.1	33.1	30.5	28.3	26.4	24.8	23.3	22.0	19.8
80	**1.368**	142.6	106.9	85.5	71.3	61.1	53.5	47.5	42.8	38.9	35.6	32.9	30.5	28.5	26.7	25.2	23.8	21.4
90	**1.451**	151.2	113.4	90.7	75.6	64.8	56.7	50.4	45.4	41.2	37.8	34.9	32.4	30.2	28.4	26.7	25.2	22.7
100	**1.530**	159.4	119.6	95.7	79.7	68.3	59.8	53.1	47.8	43.5	39.9	36.8	34.2	31.9	29.9	28.1	26.6	23.9
120	**1.676**	174.7	131.0	104.8	87.3	74.9	65.5	58.2	52.4	47.6	43.7	40.3	37.4	34.9	32.7	30.8	29.1	26.2
140	**1.810**	188.6	141.5	113.2	94.3	80.8	70.7	62.9	56.6	51.4	47.2	43.5	40.4	37.7	35.4	33.3	31.4	28.3

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*Values within +/-5% of actual

Disk Orifice Rate Chart: 37

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.122**	24.2	18.1	14.5	12.1	10.4	9.1	8.1	7.2	6.6	6.0	5.6	5.2	4.8	4.5	4.3	4.0	3.6
30	**0.149**	29.5	22.1	17.7	14.8	12.6	11.1	9.8	8.9	8.0	7.4	6.8	6.3	5.9	5.5	5.2	4.9	4.4
40	**0.172**	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
50	**0.192**	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
60	**0.211**	41.8	31.3	25.1	20.9	17.9	15.7	13.9	12.5	11.4	10.4	9.6	9.0	8.4	7.8	7.4	7.0	6.3
70	**0.228**	45.1	33.9	27.1	22.6	19.3	16.9	15.0	13.5	12.3	11.3	10.4	9.7	9.0	8.5	8.0	7.5	6.8
80	**0.243**	48.1	36.1	28.9	24.1	20.6	18.0	16.0	14.4	13.1	12.0	11.1	10.3	9.6	9.0	8.5	8.0	7.2
90	**0.257**	50.9	38.2	30.5	25.4	21.8	19.1	17.0	15.3	13.9	12.7	11.7	10.9	10.2	9.5	9.0	8.5	7.6
100	**0.272**	53.9	40.4	32.3	26.9	23.1	20.2	18.0	16.2	14.7	13.5	12.4	11.5	10.8	10.1	9.5	9.0	8.1

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.122**	16.1	12.1	9.7	8.1	6.9	6.0	5.4	4.8	4.4	4.0	3.7	3.5	3.2	3.0	2.8	2.7	2.4
30	**0.149**	19.7	14.8	11.8	9.8	8.4	7.4	6.6	5.9	5.4	4.9	4.5	4.2	3.9	3.7	3.5	3.3	3.0
40	**0.172**	22.7	17.0	13.6	11.4	9.7	8.5	7.6	6.8	6.2	5.7	5.2	4.9	4.5	4.3	4.0	3.8	3.4
50	**0.192**	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
60	**0.211**	27.9	20.9	16.7	13.9	11.9	10.4	9.3	8.4	7.6	7.0	6.4	6.0	5.6	5.2	4.9	4.6	4.2
70	**0.228**	30.1	22.6	18.1	15.0	12.9	11.3	10.0	9.0	8.2	7.5	6.9	6.4	6.0	5.6	5.3	5.0	4.5
80	**0.243**	32.1	24.1	19.2	16.0	13.7	12.0	10.7	9.6	8.7	8.0	7.4	6.9	6.4	6.0	5.7	5.3	4.8
90	**0.257**	33.9	25.4	20.4	17.0	14.5	12.7	11.3	10.2	9.3	8.5	7.8	7.3	6.8	6.4	6.0	5.7	5.1
100	**0.272**	35.9	26.9	21.5	18.0	15.4	13.5	12.0	10.8	9.8	9.0	8.3	7.7	7.2	6.7	6.3	6.0	5.4

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.122**	12.7	9.5	7.6	6.4	5.4	4.8	4.2	3.8	3.5	3.2	2.9	2.7	2.5	2.4	2.2	2.1	1.9
30	**0.149**	15.5	11.6	9.3	7.8	6.7	5.8	5.2	4.7	4.2	3.9	3.6	3.3	3.1	2.9	2.7	2.6	2.3
40	**0.172**	17.9	13.4	10.8	9.0	7.7	6.7	6.0	5.4	4.9	4.5	4.1	3.8	3.6	3.4	3.2	3.0	2.7
50	**0.192**	20.0	15.0	12.0	10.0	8.6	7.5	6.7	6.0	5.5	5.0	4.6	4.3	4.0	3.8	3.5	3.3	3.0
60	**0.211**	22.0	16.5	13.2	11.0	9.4	8.2	7.3	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.3
70	**0.228**	23.8	17.8	14.3	11.9	10.2	8.9	7.9	7.1	6.5	5.9	5.5	5.1	4.8	4.5	4.2	4.0	3.6
80	**0.243**	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	4.7	4.5	4.2	3.8
90	**0.257**	26.8	20.1	16.1	13.4	11.5	10.0	8.9	8.0	7.3	6.7	6.2	5.7	5.4	5.0	4.7	4.5	4.0
100	**0.272**	28.3	21.3	17.0	14.2	12.1	10.6	9.4	8.5	7.7	7.1	6.5	6.1	5.7	5.3	5.0	4.7	4.3

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 41

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.149**	29.5	22.1	17.7	14.8	12.6	11.1	9.8	8.9	8.0	7.4	6.8	6.3	5.9	5.5	5.2	4.9	4.4
30	**0.183**	36.2	27.2	21.7	18.1	15.5	13.6	12.1	10.9	9.9	9.1	8.4	7.8	7.2	6.8	6.4	6.0	5.4
40	**0.211**	41.8	31.3	25.1	20.9	17.9	15.7	13.9	12.5	11.4	10.4	9.6	9.0	8.4	7.8	7.4	7.0	6.3
50	**0.236**	46.7	35.0	28.0	23.4	20.0	17.5	15.6	14.0	12.7	11.7	10.8	10.0	9.3	8.8	8.2	7.8	7.0
60	**0.258**	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
70	**0.287**	56.8	42.6	34.1	28.4	24.4	21.3	18.9	17.0	15.5	14.2	13.1	12.2	11.4	10.7	10.0	9.5	8.5
80	**0.298**	59.0	44.3	35.4	29.5	25.3	22.1	19.7	17.7	16.1	14.8	13.6	12.6	11.8	11.1	10.4	9.8	8.9
90	**0.327**	64.7	48.6	38.8	32.4	27.7	24.3	21.6	19.4	17.7	16.2	14.9	13.9	12.9	12.1	11.4	10.8	9.7
100	**0.334**	66.1	49.6	39.7	33.1	28.3	24.8	22.0	19.8	18.0	16.5	15.3	14.2	13.2	12.4	11.7	11.0	9.9

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.149**	19.7	14.8	11.8	9.8	8.4	7.4	6.6	5.9	5.4	4.9	4.5	4.2	3.9	3.7	3.5	3.3	3.0
30	**0.183**	24.2	18.1	14.5	12.1	10.4	9.1	8.1	7.2	6.6	6.0	5.6	5.2	4.8	4.5	4.3	4.0	3.6
40	**0.211**	27.9	20.9	16.7	13.9	11.9	10.4	9.3	8.4	7.6	7.0	6.4	6.0	5.6	5.2	4.9	4.6	4.2
50	**0.236**	31.2	23.4	18.7	15.6	13.4	11.7	10.4	9.3	8.5	7.8	7.2	6.7	6.2	5.8	5.5	5.2	4.7
60	**0.258**	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
70	**0.287**	37.9	28.4	22.7	18.9	16.2	14.2	12.6	11.4	10.3	9.5	8.7	8.1	7.6	7.1	6.7	6.3	5.7
80	**0.298**	39.3	29.5	23.6	19.7	16.9	14.8	13.1	11.8	10.7	9.8	9.1	8.4	7.9	7.4	6.9	6.6	5.9
90	**0.327**	43.2	32.4	25.9	21.6	18.5	16.2	14.4	12.9	11.8	10.8	10.0	9.2	8.6	8.1	7.6	7.2	6.5
100	**0.334**	44.1	33.1	26.5	22.0	18.9	16.5	14.7	13.2	12.0	11.0	10.2	9.4	8.8	8.3	7.8	7.3	6.6

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.149**	15.5	11.6	9.3	7.8	6.7	5.8	5.2	4.7	4.2	3.9	3.6	3.3	3.1	2.9	2.7	2.6	2.3
30	**0.183**	19.1	14.3	11.4	9.5	8.2	7.2	6.4	5.7	5.2	4.8	4.4	4.1	3.8	3.6	3.4	3.2	2.9
40	**0.211**	22.0	16.5	13.2	11.0	9.4	8.2	7.3	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.3
50	**0.236**	24.6	18.4	14.8	12.3	10.5	9.2	8.2	7.4	6.7	6.1	5.7	5.3	4.9	4.6	4.3	4.1	3.7
60	**0.258**	26.9	20.2	16.1	13.4	11.5	10.1	9.0	8.1	7.3	6.7	6.2	5.8	5.4	5.0	4.7	4.5	4.0
70	**0.287**	29.9	22.4	17.9	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
80	**0.298**	31.1	23.3	18.6	15.5	13.3	11.6	10.4	9.3	8.5	7.8	7.2	6.7	6.2	5.8	5.5	5.2	4.7
90	**0.327**	34.1	25.6	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	**0.334**	34.8	26.1	20.9	17.4	14.9	13.1	11.6	10.4	9.5	8.7	8.0	7.5	7.0	6.5	6.1	5.8	5.2

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 45

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.177**	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5	9.6	8.8	8.1	7.5	7.0	6.6	6.2	5.8	5.3
30	**0.217**	43.0	32.2	25.8	21.5	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.1	7.6	7.2	6.4
40	**0.250**	49.5	37.1	29.7	24.8	21.2	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.4
50	**0.280**	55.4	41.6	33.3	27.7	23.8	20.8	18.5	16.6	15.1	13.9	12.8	11.9	11.1	10.4	9.8	9.2	8.3
60	**0.306**	60.6	45.4	36.4	30.3	26.0	22.7	20.2	18.2	16.5	15.1	14.0	13.0	12.1	11.4	10.7	10.1	9.1
70	**0.334**	66.1	49.6	39.7	33.1	28.3	24.8	22.0	19.8	18.0	16.5	15.3	14.2	13.2	12.4	11.7	11.0	9.9
80	**0.354**	70.1	52.6	42.1	35.0	30.0	26.3	23.4	21.0	19.1	17.5	16.2	15.0	14.0	13.1	12.4	11.7	10.5
90	**0.379**	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
100	**0.395**	78.2	58.7	46.9	39.1	33.5	29.3	26.1	23.5	21.3	19.6	18.0	16.8	15.6	14.7	13.8	13.0	11.7

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.177**	23.4	17.5	14.0	11.7	10.0	8.8	7.8	7.0	6.4	5.8	5.4	5.0	4.7	4.4	4.1	3.9	3.5
30	**0.217**	28.6	21.5	17.2	14.3	12.3	10.7	9.5	8.6	7.8	7.2	6.6	6.1	5.7	5.4	5.1	4.8	4.3
40	**0.250**	33.0	24.8	19.8	16.5	14.1	12.4	11.0	9.9	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.5	5.0
50	**0.280**	37.0	27.7	22.2	18.5	15.8	13.9	12.3	11.1	10.1	9.2	8.5	7.9	7.4	6.9	6.5	6.2	5.5
60	**0.306**	40.4	30.3	24.2	20.2	17.3	15.1	13.5	12.1	11.0	10.1	9.3	8.7	8.1	7.6	7.1	6.7	6.1
70	**0.334**	44.1	33.1	26.5	22.0	18.9	16.5	14.7	13.2	12.0	11.0	10.2	9.4	8.8	8.3	7.8	7.3	6.6
80	**0.354**	46.7	35.0	28.0	23.4	20.0	17.5	15.6	14.0	12.7	11.7	10.8	10.0	9.3	8.8	8.2	7.8	7.0
90	**0.379**	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
100	**0.395**	52.1	39.1	31.3	26.1	22.3	19.6	17.4	15.6	14.2	13.0	12.0	11.2	10.4	9.8	9.2	8.7	7.8

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.177**	18.4	13.8	11.1	9.2	7.9	6.9	6.1	5.5	5.0	4.6	4.3	4.0	3.7	3.5	3.3	3.1	2.8
30	**0.217**	22.6	17.0	13.6	11.3	9.7	8.5	7.5	6.8	6.2	5.7	5.2	4.8	4.5	4.2	4.0	3.8	3.4
40	**0.250**	26.1	19.5	15.6	13.0	11.2	9.8	8.7	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.3	3.9
50	**0.280**	29.2	21.9	17.5	14.6	12.5	10.9	9.7	8.8	8.0	7.3	6.7	6.3	5.8	5.5	5.1	4.9	4.4
60	**0.306**	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
70	**0.334**	34.8	26.1	20.9	17.4	14.9	13.1	11.6	10.4	9.5	8.7	8.0	7.5	7.0	6.5	6.1	5.8	5.2
80	**0.354**	36.9	27.7	22.1	18.4	15.8	13.8	12.3	11.1	10.1	9.2	8.5	7.9	7.4	6.9	6.5	6.1	5.5
90	**0.379**	39.5	29.6	23.7	19.7	16.9	14.8	13.2	11.8	10.8	9.9	9.1	8.5	7.9	7.4	7.0	6.6	5.9
100	**0.395**	41.2	30.9	24.7	20.6	17.6	15.4	13.7	12.3	11.2	10.3	9.5	8.8	8.2	7.7	7.3	6.9	6.2

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 48

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.202**	40.0	30.0	24.0	20.0	17.1	15.0	13.3	12.0	10.9	10.0	9.2	8.6	8.0	7.5	7.1	6.7	6.0
30	**0.248**	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
40	**0.286**	56.6	42.5	34.0	28.3	24.3	21.2	18.9	17.0	15.4	14.2	13.1	12.1	11.3	10.6	10.0	9.4	8.5
50	**0.320**	63.4	47.5	38.0	31.7	27.2	23.8	21.1	19.0	17.3	15.8	14.6	13.6	12.7	11.9	11.2	10.6	9.5
60	**0.350**	69.3	52.0	41.6	34.7	29.7	26.0	23.1	20.8	18.9	17.3	16.0	14.9	13.9	13.0	12.2	11.6	10.4
70	**0.372**	73.7	55.3	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	11.1
80	**0.391**	77.3	58.0	46.4	38.7	33.1	29.0	25.8	23.2	21.1	19.3	17.8	16.6	15.5	14.5	13.6	12.9	11.6
90	**0.404**	79.9	60.0	48.0	40.0	34.3	30.0	26.6	24.0	21.8	20.0	18.4	17.1	16.0	15.0	14.1	13.3	12.0
100	**0.412**	81.5	61.1	48.9	40.8	34.9	30.6	27.2	24.5	22.2	20.4	18.8	17.5	16.3	15.3	14.4	13.6	12.2

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.202**	26.7	20.0	16.0	13.3	11.4	10.0	8.9	8.0	7.3	6.7	6.2	5.7	5.3	5.0	4.7	4.4	4.0
30	**0.248**	32.7	24.6	19.6	16.4	14.0	12.3	10.9	9.8	8.9	8.2	7.6	7.0	6.5	6.1	5.8	5.5	4.9
40	**0.286**	37.8	28.3	22.7	18.9	16.2	14.2	12.6	11.3	10.3	9.4	8.7	8.1	7.6	7.1	6.7	6.3	5.7
50	**0.320**	42.2	31.7	25.3	21.1	18.1	15.8	14.1	12.7	11.5	10.6	9.7	9.1	8.4	7.9	7.5	7.0	6.3
60	**0.350**	46.2	34.7	27.7	23.1	19.8	17.3	15.4	13.9	12.6	11.6	10.7	9.9	9.2	8.7	8.2	7.7	6.9
70	**0.372**	49.1	36.8	29.5	24.6	21.1	18.4	16.4	14.7	13.4	12.3	11.3	10.5	9.8	9.2	8.7	8.2	7.4
80	**0.391**	51.6	38.7	30.9	25.8	22.1	19.3	17.2	15.5	14.1	12.9	11.9	11.0	10.3	9.7	9.1	8.6	7.7
90	**0.404**	53.3	40.0	32.0	26.6	22.8	20.0	17.8	16.0	14.5	13.3	12.3	11.4	10.7	10.0	9.4	8.9	8.0
100	**0.412**	54.3	40.8	32.6	27.2	23.3	20.4	18.1	16.3	14.8	13.6	12.5	11.6	10.9	10.2	9.6	9.1	8.2

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.202**	21.1	15.8	12.6	10.5	9.0	7.9	7.0	6.3	5.7	5.3	4.9	4.5	4.2	3.9	3.7	3.5	3.2
30	**0.248**	25.8	19.4	15.5	12.9	11.1	9.7	8.6	7.8	7.0	6.5	6.0	5.5	5.2	4.8	4.6	4.3	3.9
40	**0.286**	29.8	22.4	17.9	14.9	12.8	11.2	9.9	8.9	8.1	7.5	6.9	6.4	6.0	5.6	5.3	5.0	4.5
50	**0.320**	33.3	25.0	20.0	16.7	14.3	12.5	11.1	10.0	9.1	8.3	7.7	7.1	6.7	6.3	5.9	5.6	5.0
60	**0.350**	36.5	27.4	21.9	18.2	15.6	13.7	12.2	10.9	9.9	9.1	8.4	7.8	7.3	6.8	6.4	6.1	5.5
70	**0.372**	38.8	29.1	23.3	19.4	16.6	14.5	12.9	11.6	10.6	9.7	9.0	8.3	7.8	7.3	6.8	6.5	5.8
80	**0.391**	40.7	30.5	24.4	20.4	17.4	15.3	13.6	12.2	11.1	10.2	9.4	8.7	8.1	7.6	7.2	6.8	6.1
90	**0.404**	42.1	31.6	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.5	9.7	9.0	8.4	7.9	7.4	7.0	6.3
100	**0.412**	42.9	32.2	25.7	21.5	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.6	7.2	6.4

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 57

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.283**	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
30	**0.346**	68.5	51.4	41.1	34.3	29.4	25.7	22.8	20.6	18.7	17.1	15.8	14.7	13.7	12.8	12.1	11.4	10.3
40	**0.400**	79.2	59.4	47.5	39.6	33.9	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	11.9
50	**0.447**	88.5	66.4	53.1	44.3	37.9	33.2	29.5	26.6	24.1	22.1	20.4	19.0	17.7	16.6	15.6	14.8	13.3
60	**0.490**	97.0	72.8	58.2	48.5	41.6	36.4	32.3	29.1	26.5	24.3	22.4	20.8	19.4	18.2	17.1	16.2	14.6
70	**0.522**	103.4	77.5	62.0	51.7	44.3	38.8	34.5	31.0	28.2	25.8	23.9	22.2	20.7	19.4	18.2	17.2	15.5
80	**0.549**	108.8	81.6	65.3	54.4	46.6	40.8	36.3	32.6	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.1	16.3
90	**0.570**	112.9	84.7	67.7	56.4	48.4	42.3	37.6	33.9	30.8	28.2	26.0	24.2	22.6	21.2	19.9	18.8	16.9
100	**0.584**	115.6	86.7	69.4	57.8	49.5	43.3	38.5	34.7	31.5	28.9	26.7	24.8	23.1	21.7	20.4	19.3	17.3

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.283**	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
30	**0.346**	45.7	34.3	27.4	22.8	19.6	17.1	15.2	13.7	12.5	11.4	10.5	9.8	9.1	8.6	8.1	7.6	6.9
40	**0.400**	52.8	39.6	31.7	26.4	22.6	19.8	17.6	15.8	14.4	13.2	12.2	11.3	10.6	9.9	9.3	8.8	7.9
50	**0.447**	59.0	44.3	35.4	29.5	25.3	22.1	19.7	17.7	16.1	14.8	13.6	12.6	11.8	11.1	10.4	9.8	8.9
60	**0.490**	64.7	48.5	38.8	32.3	27.7	24.3	21.6	19.4	17.6	16.2	14.9	13.9	12.9	12.1	11.4	10.8	9.7
70	**0.522**	68.9	51.7	41.4	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	**0.549**	72.5	54.4	43.5	36.3	31.1	27.2	24.2	21.8	19.8	18.1	16.7	15.5	14.5	13.6	12.8	12.1	10.9
90	**0.570**	75.2	56.4	45.1	37.6	32.2	28.2	25.1	22.6	20.5	18.8	17.4	16.1	15.0	14.1	13.3	12.5	11.3
100	**0.584**	77.1	57.8	46.2	38.5	33.0	28.9	25.7	23.1	21.0	19.3	17.8	16.5	15.4	14.4	13.6	12.8	11.6

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.283**	29.5	22.1	17.7	14.7	12.6	11.1	9.8	8.8	8.0	7.4	6.8	6.3	5.9	5.5	5.2	4.9	4.4
30	**0.346**	36.1	27.0	21.6	18.0	15.5	13.5	12.0	10.8	9.8	9.0	8.3	7.7	7.2	6.8	6.4	6.0	5.4
40	**0.400**	41.7	31.3	25.0	20.8	17.9	15.6	13.9	12.5	11.4	10.4	9.6	8.9	8.3	7.8	7.4	6.9	6.3
50	**0.447**	46.6	34.9	27.9	23.3	20.0	17.5	15.5	14.0	12.7	11.6	10.7	10.0	9.3	8.7	8.2	7.8	7.0
60	**0.490**	51.1	38.3	30.6	25.5	21.9	19.1	17.0	15.3	13.9	12.8	11.8	10.9	10.2	9.6	9.0	8.5	7.7
70	**0.522**	54.4	40.8	32.6	27.2	23.3	20.4	18.1	16.3	14.8	13.6	12.6	11.7	10.9	10.2	9.6	9.1	8.2
80	**0.549**	57.3	42.9	34.4	28.6	24.5	21.5	19.1	17.2	15.6	14.3	13.2	12.3	11.5	10.7	10.1	9.5	8.6
90	**0.570**	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
100	**0.584**	60.8	45.6	36.5	30.4	26.1	22.8	20.3	18.3	16.6	15.2	14.0	13.0	12.2	11.4	10.7	10.1	9.1

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 61

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.330**	65.3	49.0	39.2	32.7	28.0	24.5	21.8	19.6	17.8	16.3	15.1	14.0	13.1	12.3	11.5	10.9	9.8
30	**0.404**	80.0	60.0	48.0	40.0	34.3	30.0	26.7	24.0	21.8	20.0	18.5	17.1	16.0	15.0	14.1	13.3	12.0
40	**0.466**	92.3	69.2	55.4	46.1	39.5	34.6	30.8	27.7	25.2	23.1	21.3	19.8	18.5	17.3	16.3	15.4	13.8
50	**0.521**	103.2	77.4	61.9	51.6	44.2	38.7	34.4	30.9	28.1	25.8	23.8	22.1	20.6	19.3	18.2	17.2	15.5
60	**0.571**	113.1	84.8	67.8	56.5	48.5	42.4	37.7	33.9	30.8	28.3	26.1	24.2	22.6	21.2	20.0	18.8	17.0
70	**0.613**	121.3	91.0	72.8	60.7	52.0	45.5	40.4	36.4	33.1	30.3	28.0	26.0	24.3	22.7	21.4	20.2	18.2
80	**0.658**	130.3	97.7	78.2	65.1	55.8	48.9	43.4	39.1	35.5	32.6	30.1	27.9	26.1	24.4	23.0	21.7	19.5
90	**0.701**	138.8	104.1	83.3	69.4	59.5	52.0	46.3	41.6	37.8	34.7	32.0	29.7	27.8	26.0	24.5	23.1	20.8
100	**0.741**	146.8	110.1	88.1	73.4	62.9	55.0	48.9	44.0	40.0	36.7	33.9	31.4	29.4	27.5	25.9	24.5	22.0

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.330**	43.6	32.7	26.1	21.8	18.7	16.3	14.5	13.1	11.9	10.9	10.1	9.3	8.7	8.2	7.7	7.3	6.5
30	**0.404**	53.3	40.0	32.0	26.7	22.9	20.0	17.8	16.0	14.5	13.3	12.3	11.4	10.7	10.0	9.4	8.9	8.0
40	**0.466**	61.5	46.1	36.9	30.8	26.4	23.1	20.5	18.5	16.8	15.4	14.2	13.2	12.3	11.5	10.9	10.3	9.2
50	**0.521**	68.8	51.6	41.3	34.4	29.5	25.8	22.9	20.6	18.8	17.2	15.9	14.7	13.8	12.9	12.1	11.5	10.3
60	**0.571**	75.4	56.5	45.2	37.7	32.3	28.3	25.1	22.6	20.6	18.8	17.4	16.2	15.1	14.1	13.3	12.6	11.3
70	**0.613**	80.9	60.7	48.5	40.4	34.7	30.3	27.0	24.3	22.1	20.2	18.7	17.3	16.2	15.2	14.3	13.5	12.1
80	**0.658**	86.8	65.1	52.1	43.4	37.2	32.6	28.9	26.1	23.7	21.7	20.0	18.6	17.4	16.3	15.3	14.5	13.0
90	**0.701**	92.5	69.4	55.5	46.3	39.6	34.7	30.8	27.8	25.2	23.1	21.3	19.8	18.5	17.3	16.3	15.4	13.9
100	**0.741**	97.8	73.4	58.7	48.9	41.9	36.7	32.6	29.4	26.7	24.5	22.6	21.0	19.6	18.3	17.3	16.3	14.7

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.330**	34.4	25.8	20.6	17.2	14.7	12.9	11.5	10.3	9.4	8.6	7.9	7.4	6.9	6.4	6.1	5.7	5.2
30	**0.404**	42.1	31.6	25.3	21.1	18.0	15.8	14.0	12.6	11.5	10.5	9.7	9.0	8.4	7.9	7.4	7.0	6.3
40	**0.466**	48.6	36.4	29.1	24.3	20.8	18.2	16.2	14.6	13.2	12.1	11.2	10.4	9.7	9.1	8.6	8.1	7.3
50	**0.521**	54.3	40.7	32.6	27.1	23.3	20.4	18.1	16.3	14.8	13.6	12.5	11.6	10.9	10.2	9.6	9.0	8.1
60	**0.571**	59.5	44.6	35.7	29.8	25.5	22.3	19.8	17.9	16.2	14.9	13.7	12.8	11.9	11.2	10.5	9.9	8.9
70	**0.613**	63.8	47.9	38.3	31.9	27.4	23.9	21.3	19.2	17.4	16.0	14.7	13.7	12.8	12.0	11.3	10.6	9.6
80	**0.658**	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
90	**0.701**	73.0	54.8	43.8	36.5	31.3	27.4	24.3	21.9	19.9	18.3	16.9	15.6	14.6	13.7	12.9	12.2	11.0
100	**0.741**	77.2	57.9	46.3	38.6	33.1	29.0	25.7	23.2	21.1	19.3	17.8	16.6	15.4	14.5	13.6	12.9	11.6

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 73

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.467**	92.5	69.3	55.5	46.2	39.6	34.7	30.8	27.7	25.2	23.1	21.3	19.8	18.5	17.3	16.3	15.4	13.9
30	**0.572**	113.3	84.9	68.0	56.6	48.5	42.5	37.8	34.0	30.9	28.3	26.1	24.3	22.7	21.2	20.0	18.9	17.0
40	**0.660**	130.7	98.0	78.4	65.3	56.0	49.0	43.6	39.2	35.6	32.7	30.2	28.0	26.1	24.5	23.1	21.8	19.6
50	**0.738**	146.1	109.6	87.7	73.1	62.6	54.8	48.7	43.8	39.9	36.5	33.7	31.3	29.2	27.4	25.8	24.4	21.9
60	**0.808**	160.0	120.0	96.0	80.0	68.6	60.0	53.3	48.0	43.6	40.0	36.9	34.3	32.0	30.0	28.2	26.7	24.0
70	**0.852**	168.8	126.6	101.3	84.4	72.3	63.3	56.3	50.6	46.0	42.2	38.9	36.2	33.8	31.6	29.8	28.1	25.3
80	**0.901**	178.4	133.8	107.0	89.2	76.5	66.9	59.5	53.5	48.7	44.6	41.2	38.2	35.7	33.4	31.5	29.7	26.8
90	**0.941**	186.3	139.7	111.8	93.1	79.8	69.9	62.1	55.9	50.8	46.6	43.0	39.9	37.3	34.9	32.9	31.0	27.9
100	**0.972**	192.4	144.3	115.5	96.2	82.5	72.2	64.1	57.7	52.5	48.1	44.4	41.2	38.5	36.1	34.0	32.1	28.9

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.467**	61.6	46.2	37.0	30.8	26.4	23.1	20.5	18.5	16.8	15.4	14.2	13.2	12.3	11.6	10.9	10.3	9.2
30	**0.572**	75.5	56.6	45.3	37.8	32.4	28.3	25.2	22.7	20.6	18.9	17.4	16.2	15.1	14.2	13.3	12.6	11.3
40	**0.660**	87.1	65.3	52.3	43.6	37.3	32.7	29.0	26.1	23.8	21.8	20.1	18.7	17.4	16.3	15.4	14.5	13.1
50	**0.738**	97.4	73.1	58.4	48.7	41.7	36.5	32.5	29.2	26.6	24.4	22.5	20.9	19.5	18.3	17.2	16.2	14.6
60	**0.808**	106.7	80.0	64.0	53.3	45.7	40.0	35.6	32.0	29.1	26.7	24.6	22.9	21.3	20.0	18.8	17.8	16.0
70	**0.852**	112.5	84.4	67.5	56.3	48.2	42.2	37.5	33.8	30.7	28.1	26.0	24.1	22.5	21.1	19.9	18.8	16.9
80	**0.901**	118.9	89.2	71.4	59.5	51.0	44.6	39.6	35.7	32.4	29.7	27.4	25.5	23.8	22.3	21.0	19.8	17.8
90	**0.941**	124.2	93.1	74.5	62.1	53.2	46.6	41.4	37.3	33.9	31.0	28.7	26.6	24.8	23.3	21.9	20.7	18.6
100	**0.972**	128.3	96.2	77.0	64.1	55.0	48.1	42.8	38.5	35.0	32.1	29.6	27.5	25.7	24.1	22.6	21.4	19.2

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.467**	48.7	36.5	29.2	24.3	20.9	18.2	16.2	14.6	13.3	12.2	11.2	10.4	9.7	9.1	8.6	8.1	7.3
30	**0.572**	59.6	44.7	35.8	29.8	25.5	22.4	19.9	17.9	16.3	14.9	13.8	12.8	11.9	11.2	10.5	9.9	8.9
40	**0.660**	68.8	51.6	41.3	34.4	29.5	25.8	22.9	20.6	18.8	17.2	15.9	14.7	13.8	12.9	12.1	11.5	10.3
50	**0.738**	76.9	57.7	46.1	38.5	33.0	28.8	25.6	23.1	21.0	19.2	17.7	16.5	15.4	14.4	13.6	12.8	11.5
60	**0.808**	84.2	63.2	50.5	42.1	36.1	31.6	28.1	25.3	23.0	21.1	19.4	18.0	16.8	15.8	14.9	14.0	12.6
70	**0.852**	88.8	66.6	53.3	44.4	38.1	33.3	29.6	26.6	24.2	22.2	20.5	19.0	17.8	16.7	15.7	14.8	13.3
80	**0.901**	93.9	70.4	56.3	46.9	40.2	35.2	31.3	28.2	25.6	23.5	21.7	20.1	18.8	17.6	16.6	15.6	14.1
90	**0.941**	98.0	73.5	58.8	49.0	42.0	36.8	32.7	29.4	26.7	24.5	22.6	21.0	19.6	18.4	17.3	16.3	14.7
100	**0.972**	101.3	76.0	60.8	50.6	43.4	38.0	33.8	30.4	27.6	25.3	23.4	21.7	20.3	19.0	17.9	16.9	15.2

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 78

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.544**	107.7	80.8	64.6	53.9	46.2	40.4	35.9	32.3	29.4	26.9	24.9	23.1	21.5	20.2	19.0	18.0	16.2
30	**0.667**	132.1	99.0	79.2	66.0	56.6	49.5	44.0	39.6	36.0	33.0	30.5	28.3	26.4	24.8	23.3	22.0	19.8
40	**0.770**	152.5	114.3	91.5	76.2	65.3	57.2	50.8	45.7	41.6	38.1	35.2	32.7	30.5	28.6	26.9	25.4	22.9
50	**0.861**	170.5	127.9	102.3	85.2	73.1	63.9	56.8	51.1	46.5	42.6	39.3	36.5	34.1	32.0	30.1	28.4	25.6
60	**0.943**	186.7	140.0	112.0	93.4	80.0	70.0	62.2	56.0	50.9	46.7	43.1	40.0	37.3	35.0	32.9	31.1	28.0
70	**0.999**	197.9	148.4	118.7	98.9	84.8	74.2	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	29.7
80	**1.061**	210.0	157.5	126.0	105.0	90.0	78.8	70.0	63.0	57.3	52.5	48.5	45.0	42.0	39.4	37.1	35.0	31.5
90	**1.113**	220.4	165.3	132.3	110.2	94.5	82.7	73.5	66.1	60.1	55.1	50.9	47.2	44.1	41.3	38.9	36.7	33.1
100	**1.157**	229.0	171.8	137.4	114.5	98.2	85.9	76.3	68.7	62.5	57.3	52.9	49.1	45.8	42.9	40.4	38.2	34.4

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.544**	71.8	53.9	43.1	35.9	30.8	26.9	23.9	21.5	19.6	18.0	16.6	15.4	14.4	13.5	12.7	12.0	10.8
30	**0.667**	88.0	66.0	52.8	44.0	37.7	33.0	29.3	26.4	24.0	22.0	20.3	18.9	17.6	16.5	15.5	14.7	13.2
40	**0.770**	101.6	76.2	61.0	50.8	43.6	38.1	33.9	30.5	27.7	25.4	23.5	21.8	20.3	19.1	17.9	16.9	15.2
50	**0.861**	113.7	85.2	68.2	56.8	48.7	42.6	37.9	34.1	31.0	28.4	26.2	24.4	22.7	21.3	20.1	18.9	17.0
60	**0.943**	124.5	93.4	74.7	62.2	53.3	46.7	41.5	37.3	33.9	31.1	28.7	26.7	24.9	23.3	22.0	20.7	18.7
70	**0.999**	131.9	98.9	79.1	66.0	56.5	49.5	44.0	39.6	36.0	33.0	30.4	28.3	26.4	24.7	23.3	22.0	19.8
80	**1.061**	140.0	105.0	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	30.0	28.0	26.3	24.7	23.3	21.0
90	**1.113**	147.0	110.2	88.2	73.5	63.0	55.1	49.0	44.1	40.1	36.7	33.9	31.5	29.4	27.6	25.9	24.5	22.0
100	**1.157**	152.7	114.5	91.6	76.3	65.4	57.3	50.9	45.8	41.6	38.2	35.2	32.7	30.5	28.6	26.9	25.4	22.9

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.544**	56.7	42.5	34.0	28.3	24.3	21.3	18.9	17.0	15.5	14.2	13.1	12.1	11.3	10.6	10.0	9.4	8.5
30	**0.667**	69.5	52.1	41.7	34.8	29.8	26.1	23.2	20.9	19.0	17.4	16.0	14.9	13.9	13.0	12.3	11.6	10.4
40	**0.770**	80.2	60.2	48.1	40.1	34.4	30.1	26.7	24.1	21.9	20.1	18.5	17.2	16.0	15.0	14.2	13.4	12.0
50	**0.861**	89.7	67.3	53.8	44.9	38.5	33.6	29.9	26.9	24.5	22.4	20.7	19.2	17.9	16.8	15.8	15.0	13.5
60	**0.943**	98.3	73.7	59.0	49.1	42.1	36.9	32.8	29.5	26.8	24.6	22.7	21.1	19.7	18.4	17.3	16.4	14.7
70	**0.999**	104.1	78.1	62.5	52.1	44.6	39.1	34.7	31.2	28.4	26.0	24.0	22.3	20.8	19.5	18.4	17.4	15.6
80	**1.061**	110.5	82.9	66.3	55.3	47.4	41.5	36.8	33.2	30.1	27.6	25.5	23.7	22.1	20.7	19.5	18.4	16.6
90	**1.113**	116.0	87.0	69.6	58.0	49.7	43.5	38.7	34.8	31.6	29.0	26.8	24.9	23.2	21.8	20.5	19.3	17.4
100	**1.157**	120.5	90.4	72.3	60.3	51.7	45.2	40.2	36.2	32.9	30.1	27.8	25.8	24.1	22.6	21.3	20.1	18.1

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 91

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.739**	146.3	109.7	87.8	73.2	62.7	54.9	48.8	43.9	39.9	36.6	33.8	31.4	29.3	27.4	25.8	24.4	21.9
30	**0.905**	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
40	**1.050**	207.9	155.9	124.7	104.0	89.1	78.0	69.3	62.4	56.7	52.0	48.0	44.6	41.6	39.0	36.7	34.7	31.2
50	**1.170**	231.7	173.7	139.0	115.8	99.3	86.9	77.2	69.5	63.2	57.9	53.5	49.6	46.3	43.4	40.9	38.6	34.7
60	**1.280**	253.4	190.1	152.1	126.7	108.6	95.0	84.5	76.0	69.1	63.4	58.5	54.3	50.7	47.5	44.7	42.2	38.0
70	**1.356**	268.4	201.3	161.0	134.2	115.0	100.6	89.5	80.5	73.2	67.1	61.9	57.5	53.7	50.3	47.4	44.7	40.3
80	**1.442**	285.6	214.2	171.3	142.8	122.4	107.1	95.2	85.7	77.9	71.4	65.9	61.2	57.1	53.5	50.4	47.6	42.8
90	**1.518**	300.6	225.4	180.3	150.3	128.8	112.7	100.2	90.2	82.0	75.1	69.4	64.4	60.1	56.4	53.0	50.1	45.1
100	**1.583**	313.5	235.1	188.1	156.7	134.3	117.5	104.5	94.0	85.5	78.4	72.3	67.2	62.7	58.8	55.3	52.2	47.0

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.739**	97.5	73.2	58.5	48.8	41.8	36.6	32.5	29.3	26.6	24.4	22.5	20.9	19.5	18.3	17.2	16.3	14.6
30	**0.905**	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
40	**1.050**	138.6	104.0	83.2	69.3	59.4	52.0	46.2	41.6	37.8	34.7	32.0	29.7	27.7	26.0	24.5	23.1	20.8
50	**1.170**	154.4	115.8	92.7	77.2	66.2	57.9	51.5	46.3	42.1	38.6	35.6	33.1	30.9	29.0	27.3	25.7	23.2
60	**1.280**	169.0	126.7	101.4	84.5	72.4	63.4	56.3	50.7	46.1	42.2	39.0	36.2	33.8	31.7	29.8	28.2	25.3
70	**1.356**	178.9	134.2	107.4	89.5	76.7	67.1	59.6	53.7	48.8	44.7	41.3	38.3	35.8	33.5	31.6	29.8	26.8
80	**1.442**	190.4	142.8	114.2	95.2	81.6	71.4	63.5	57.1	51.9	47.6	43.9	40.8	38.1	35.7	33.6	31.7	28.6
90	**1.518**	200.4	150.3	120.2	100.2	85.9	75.1	66.8	60.1	54.7	50.1	46.2	42.9	40.1	37.6	35.4	33.4	30.1
100	**1.583**	209.0	156.7	125.4	104.5	89.6	78.4	69.7	62.7	57.0	52.2	48.2	44.8	41.8	39.2	36.9	34.8	31.3

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.739**	77.0	57.8	46.2	38.5	33.0	28.9	25.7	23.1	21.0	19.3	17.8	16.5	15.4	14.4	13.6	12.8	11.6
30	**0.905**	94.3	70.7	56.6	47.2	40.4	35.4	31.4	28.3	25.7	23.6	21.8	20.2	18.9	17.7	16.6	15.7	14.1
40	**1.050**	109.4	82.1	65.7	54.7	46.9	41.0	36.5	32.8	29.8	27.4	25.3	23.4	21.9	20.5	19.3	18.2	16.4
50	**1.170**	121.9	91.4	73.2	61.0	52.3	45.7	40.6	36.6	33.3	30.5	28.1	26.1	24.4	22.9	21.5	20.3	18.3
60	**1.280**	133.4	100.0	80.0	66.7	57.2	50.0	44.5	40.0	36.4	33.3	30.8	28.6	26.7	25.0	23.5	22.2	20.0
70	**1.356**	141.3	105.9	84.8	70.6	60.5	53.0	47.1	42.4	38.5	35.3	32.6	30.3	28.3	26.5	24.9	23.5	21.2
80	**1.442**	150.3	112.7	90.2	75.1	64.4	56.4	50.1	45.1	41.0	37.6	34.7	32.2	30.1	28.2	26.5	25.0	22.5
90	**1.518**	158.2	118.7	94.9	79.1	67.8	59.3	52.7	47.5	43.1	39.6	36.5	33.9	31.6	29.7	27.9	26.4	23.7
100	**1.583**	165.0	123.7	99.0	82.5	70.7	61.9	55.0	49.5	45.0	41.2	38.1	35.4	33.0	30.9	29.1	27.5	24.7

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 103

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.923**	182.8	137.1	109.7	91.4	78.3	68.5	60.9	54.8	49.8	45.7	42.2	39.2	36.6	34.3	32.3	30.5	27.4
30	**1.130**	223.7	167.8	134.2	111.9	95.9	83.9	74.6	67.1	61.0	55.9	51.6	47.9	44.7	42.0	39.5	37.3	33.6
40	**1.310**	259.4	194.5	155.6	129.7	111.2	97.3	86.5	77.8	70.7	64.8	59.9	55.6	51.9	48.6	45.8	43.2	38.9
50	**1.460**	289.1	216.8	173.4	144.5	123.9	108.4	96.4	86.7	78.8	72.3	66.7	61.9	57.8	54.2	51.0	48.2	43.4
60	**1.600**	316.8	237.6	190.1	158.4	135.8	118.8	105.6	95.0	86.4	79.2	73.1	67.9	63.4	59.4	55.9	52.8	47.5
70	**1.738**	344.1	258.1	206.5	172.1	147.5	129.0	114.7	103.2	93.9	86.0	79.4	73.7	68.8	64.5	60.7	57.4	51.6
80	**1.850**	366.3	274.7	219.8	183.2	157.0	137.4	122.1	109.9	99.9	91.6	84.5	78.5	73.3	68.7	64.6	61.1	54.9
90	**1.962**	388.5	291.4	233.1	194.2	166.5	145.7	129.5	116.5	105.9	97.1	89.6	83.2	77.7	72.8	68.6	64.7	58.3
100	**2.060**	407.9	305.9	244.7	203.9	174.8	153.0	136.0	122.4	111.2	102.0	94.1	87.4	81.6	76.5	72.0	68.0	61.2

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.923**	121.8	91.4	73.1	60.9	52.2	45.7	40.6	36.6	33.2	30.5	28.1	26.1	24.4	22.8	21.5	20.3	18.3
30	**1.130**	149.2	111.9	89.5	74.6	63.9	55.9	49.7	44.7	40.7	37.3	34.4	32.0	29.8	28.0	26.3	24.9	22.4
40	**1.310**	172.9	129.7	103.8	86.5	74.1	64.8	57.6	51.9	47.2	43.2	39.9	37.1	34.6	32.4	30.5	28.8	25.9
50	**1.460**	192.7	144.5	115.6	96.4	82.6	72.3	64.2	57.8	52.6	48.2	44.5	41.3	38.5	36.1	34.0	32.1	28.9
60	**1.600**	211.2	158.4	126.7	105.6	90.5	79.2	70.4	63.4	57.6	52.8	48.7	45.3	42.2	39.6	37.3	35.2	31.7
70	**1.738**	229.4	172.1	137.6	114.7	98.3	86.0	76.5	68.8	62.6	57.4	52.9	49.2	45.9	43.0	40.5	38.2	34.4
80	**1.850**	244.2	183.2	146.5	122.1	104.7	91.6	81.4	73.3	66.6	61.1	56.4	52.3	48.8	45.8	43.1	40.7	36.6
90	**1.962**	259.0	194.2	155.4	129.5	111.0	97.1	86.3	77.7	70.6	64.7	59.8	55.5	51.8	48.6	45.7	43.2	38.8
100	**2.060**	271.9	203.9	163.2	136.0	116.5	102.0	90.6	81.6	74.2	68.0	62.8	58.3	54.4	51.0	48.0	45.3	40.8

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**0.923**	96.2	72.1	57.7	48.1	41.2	36.1	32.1	28.9	26.2	24.0	22.2	20.6	19.2	18.0	17.0	16.0	14.4
30	**1.130**	117.8	88.3	70.7	58.9	50.5	44.2	39.3	35.3	32.1	29.4	27.2	25.2	23.6	22.1	20.8	19.6	17.7
40	**1.310**	136.5	102.4	81.9	68.3	58.5	51.2	45.5	41.0	37.2	34.1	31.5	29.3	27.3	25.6	24.1	22.8	20.5
50	**1.460**	152.1	114.1	91.3	76.1	65.2	57.1	50.7	45.6	41.5	38.0	35.1	32.6	30.4	28.5	26.8	25.4	22.8
60	**1.600**	166.7	125.1	100.0	83.4	71.5	62.5	55.6	50.0	45.5	41.7	38.5	35.7	33.3	31.3	29.4	27.8	25.0
70	**1.738**	181.1	135.8	108.7	90.6	77.6	67.9	60.4	54.3	49.4	45.3	41.8	38.8	36.2	34.0	32.0	30.2	27.2
80	**1.850**	192.8	144.6	115.7	96.4	82.6	72.3	64.3	57.8	52.6	48.2	44.5	41.3	38.6	36.1	34.0	32.1	28.9
90	**1.962**	204.5	153.3	122.7	102.2	87.6	76.7	68.2	61.3	55.8	51.1	47.2	43.8	40.9	38.3	36.1	34.1	30.7
100	**2.060**	214.7	161.0	128.8	107.3	92.0	80.5	71.6	64.4	58.5	53.7	49.5	46.0	42.9	40.3	37.9	35.8	32.2

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 110

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**1.100**	217.8	163.4	130.7	108.9	93.3	81.7	72.6	65.3	59.4	54.5	50.3	46.7	43.6	40.8	38.4	36.3	32.7
30	**1.340**	265.3	199.0	159.2	132.7	113.7	99.5	88.4	79.6	72.4	66.3	61.2	56.9	53.1	49.7	46.8	44.2	39.8
40	**1.550**	306.9	230.2	184.1	153.5	131.5	115.1	102.3	92.1	83.7	76.7	70.8	65.8	61.4	57.5	54.2	51.2	46.0
50	**1.730**	342.5	256.9	205.5	171.3	146.8	128.5	114.2	102.8	93.4	85.6	79.0	73.4	68.5	64.2	60.4	57.1	51.4
60	**1.900**	376.2	282.2	225.7	188.1	161.2	141.1	125.4	112.9	102.6	94.1	86.8	80.6	75.2	70.5	66.4	62.7	56.4
70	**2.056**	407.1	305.3	244.3	203.5	174.5	152.7	135.7	122.1	111.0	101.8	93.9	87.2	81.4	76.3	71.8	67.8	61.1
80	**2.190**	433.6	325.2	260.2	216.8	185.8	162.6	144.5	130.1	118.3	108.4	100.1	92.9	86.7	81.3	76.5	72.3	65.0
90	**2.322**	459.8	344.8	275.9	229.9	197.0	172.4	153.3	137.9	125.4	114.9	106.1	98.5	92.0	86.2	81.1	76.6	69.0
100	**2.450**	485.1	363.8	291.1	242.6	207.9	181.9	161.7	145.5	132.3	121.3	111.9	104.0	97.0	91.0	85.6	80.9	72.8

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**1.100**	145.2	108.9	87.1	72.6	62.2	54.5	48.4	43.6	39.6	36.3	33.5	31.1	29.0	27.2	25.6	24.2	21.8
30	**1.340**	176.9	132.7	106.1	88.4	75.8	66.3	59.0	53.1	48.2	44.2	40.8	37.9	35.4	33.2	31.2	29.5	26.5
40	**1.550**	204.6	153.5	122.8	102.3	87.7	76.7	68.2	61.4	55.8	51.2	47.2	43.8	40.9	38.4	36.1	34.1	30.7
50	**1.730**	228.4	171.3	137.0	114.2	97.9	85.6	76.1	68.5	62.3	57.1	52.7	48.9	45.7	42.8	40.3	38.1	34.3
60	**1.900**	250.8	188.1	150.5	125.4	107.5	94.1	83.6	75.2	68.4	62.7	57.9	53.7	50.2	47.0	44.3	41.8	37.6
70	**2.056**	271.4	203.5	162.8	135.7	116.3	101.8	90.5	81.4	74.0	67.8	62.6	58.2	54.3	50.9	47.9	45.2	40.7
80	**2.190**	289.1	216.8	173.4	144.5	123.9	108.4	96.4	86.7	78.8	72.3	66.7	61.9	57.8	54.2	51.0	48.2	43.4
90	**2.322**	306.5	229.9	183.9	153.3	131.4	114.9	102.2	92.0	83.6	76.6	70.7	65.7	61.3	57.5	54.1	51.1	46.0
100	**2.450**	323.4	242.6	194.0	161.7	138.6	121.3	107.8	97.0	88.2	80.9	74.6	69.3	64.7	60.6	57.1	53.9	48.5

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**1.100**	114.6	86.0	68.8	57.3	49.1	43.0	38.2	34.4	31.3	28.7	26.5	24.6	22.9	21.5	20.2	19.1	17.2
30	**1.340**	139.6	104.7	83.8	69.8	59.8	52.4	46.5	41.9	38.1	34.9	32.2	29.9	27.9	26.2	24.6	23.3	20.9
40	**1.550**	161.5	121.1	96.9	80.8	69.2	60.6	53.8	48.5	44.1	40.4	37.3	34.6	32.3	30.3	28.5	26.9	24.2
50	**1.730**	180.3	135.2	108.2	90.1	77.3	67.6	60.1	54.1	49.2	45.1	41.6	38.6	36.1	33.8	31.8	30.0	27.0
60	**1.900**	198.0	148.5	118.8	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	29.7
70	**2.056**	214.3	160.7	128.6	107.1	91.8	80.3	71.4	64.3	58.4	53.6	49.4	45.9	42.9	40.2	37.8	35.7	32.1
80	**2.190**	228.2	171.2	136.9	114.1	97.8	85.6	76.1	68.5	62.2	57.1	52.7	48.9	45.6	42.8	40.3	38.0	34.2
90	**2.322**	242.0	181.5	145.2	121.0	103.7	90.7	80.7	72.6	66.0	60.5	55.8	51.9	48.4	45.4	42.7	40.3	36.3
100	**2.450**	255.3	191.5	153.2	127.7	109.4	95.7	85.1	76.6	69.6	63.8	58.9	54.7	51.1	47.9	45.1	42.6	38.3

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.

Disk Orifice Rate Chart: 132

Note: All table values must be converted from GPA(water) to the specific solution GPA flow rate with equations listed on Orifice and Nozzle Rate Guidelines

TABLE A

Press.	Flow	GPA (Water) at MPH based on 10" spacing (20" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**1.550**	306.9	230.2	184.1	153.5	131.5	115.1	102.3	92.1	83.7	76.7	70.8	65.8	61.4	57.5	54.2	51.2	46.0
30	**1.900**	376.2	282.2	225.7	188.1	161.2	141.1	125.4	112.9	102.6	94.1	86.8	80.6	75.2	70.5	66.4	62.7	56.4
40	**2.190**	433.6	325.2	260.2	216.8	185.8	162.6	144.5	130.1	118.3	108.4	100.1	92.9	86.7	81.3	76.5	72.3	65.0
50	**2.450**	485.1	363.8	291.1	242.6	207.9	181.9	161.7	145.5	132.3	121.3	111.9	104.0	97.0	91.0	85.6	80.9	72.8
60	**2.680**	530.6	398.0	318.4	265.3	227.4	199.0	176.9	159.2	144.7	132.7	122.5	113.7	106.1	99.5	93.6	88.4	79.6
70	**2.978**	589.6	442.2	353.8	294.8	252.7	221.1	196.5	176.9	160.8	147.4	136.1	126.4	117.9	110.6	104.1	98.3	88.4
80	**3.100**	613.8	460.4	368.3	306.9	263.1	230.2	204.6	184.1	167.4	153.5	141.6	131.5	122.8	115.1	108.3	102.3	92.1
90	**3.400**	673.2	504.9	403.9	336.6	288.5	252.5	224.4	202.0	183.6	168.3	155.4	144.3	134.6	126.2	118.8	112.2	101.0
100	**3.460**	685.1	513.8	411.0	342.5	293.6	256.9	228.4	205.5	186.8	171.3	158.1	146.8	137.0	128.5	120.9	114.2	102.8

TABLE B

Press.	Flow	GPA (Water) at MPH based on 15" spacing (30" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**1.550**	204.6	153.5	122.8	102.3	87.7	76.7	68.2	61.4	55.8	51.2	47.2	43.8	40.9	38.4	36.1	34.1	30.7
30	**1.900**	250.8	188.1	150.5	125.4	107.5	94.1	83.6	75.2	68.4	62.7	57.9	53.7	50.2	47.0	44.3	41.8	37.6
40	**2.190**	289.1	216.8	173.4	144.5	123.9	108.4	96.4	86.7	78.8	72.3	66.7	61.9	57.8	54.2	51.0	48.2	43.4
50	**2.450**	323.4	242.6	194.0	161.7	138.6	121.3	107.8	97.0	88.2	80.9	74.6	69.3	64.7	60.6	57.1	53.9	48.5
60	**2.680**	353.8	265.3	212.3	176.9	151.6	132.7	117.9	106.1	96.5	88.4	81.6	75.8	70.8	66.3	62.4	59.0	53.1
70	**2.978**	393.1	294.8	235.9	196.5	168.5	147.4	131.0	117.9	107.2	98.3	90.7	84.2	78.6	73.7	69.4	65.5	59.0
80	**3.100**	409.2	306.9	245.5	204.6	175.4	153.5	136.4	122.8	111.6	102.3	94.4	87.7	81.8	76.7	72.2	68.2	61.4
90	**3.400**	448.8	336.6	269.3	224.4	192.3	168.3	149.6	134.6	122.4	112.2	103.6	96.2	89.8	84.2	79.2	74.8	67.3
100	**3.460**	456.7	342.5	274.0	228.4	195.7	171.3	152.2	137.0	124.6	114.2	105.4	97.9	91.3	85.6	80.6	76.1	68.5

TABLE C

Press.	Flow	GPA (Water) at MPH based on 19" spacing (38" Rows)																
PSI	**GPM**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**20**
20	**1.550**	161.5	121.1	96.9	80.8	69.2	60.6	53.8	48.5	44.1	40.4	37.3	34.6	32.3	30.3	28.5	26.9	24.2
30	**1.900**	198.0	148.5	118.8	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	29.7
40	**2.190**	228.2	171.2	136.9	114.1	97.8	85.6	76.1	68.5	62.2	57.1	52.7	48.9	45.6	42.8	40.3	38.0	34.2
50	**2.450**	255.3	191.5	153.2	127.7	109.4	95.7	85.1	76.6	69.6	63.8	58.9	54.7	51.1	47.9	45.1	42.6	38.3
60	**2.680**	279.3	209.5	167.6	139.6	119.7	104.7	93.1	83.8	76.2	69.8	64.5	59.8	55.9	52.4	49.3	46.5	41.9
70	**2.978**	310.3	232.8	186.2	155.2	133.0	116.4	103.4	93.1	84.6	77.6	71.6	66.5	62.1	58.2	54.8	51.7	46.6
80	**3.100**	323.1	242.3	193.8	161.5	138.5	121.1	107.7	96.9	88.1	80.8	74.6	69.2	64.6	60.6	57.0	53.8	48.5
90	**3.400**	354.3	265.7	212.6	177.2	151.8	132.9	118.1	106.3	96.6	88.6	81.8	75.9	70.9	66.4	62.5	59.1	53.1
100	**3.460**	360.6	270.4	216.3	180.3	154.5	135.2	120.2	108.2	98.3	90.1	83.2	77.3	72.1	67.6	63.6	60.1	54.1

*All GPA table values are based on applying water into air at atmospheric pressure. Refer to **Orifice and Nozzle Rate Guidelines** for conversion rates.
*The outlined sections in tables A, B and C represent application rates for a realistic speed and pressure range.
*Values within +/-5% of actual
* Charts are presented for your reference as to flow rates of different size orifices. Not all orifice sizes are carried by 360 Yield Center. Check with 360 Yield Center for availability.