GPA Water =				30 in. Spacing								14/				
GPA 10-34-0 x	GPA	Product		Operating Pressure (psi) of 10-34-0									Water			
1.19			3.0 mph	3.5 mph	4.0 mph	4.5 mph	5.0 mph	5.5 mph	6.0 mph	6.5 mph	7.0 mph	7.5 mph	8.0 mph	9.0 mph	10.0 mph	GPA
CP4916-63	10.5	10-34-0				10	13	15	18	21	25	28	32	41	51	12.5
CP4916-63	11.0	10-34-0				12	15	18	22	26	30	34	39	49		13.1
CP4916-63	11.5	10-34-0			12	15	18	22	26	31	36	41	47	59		13.7
CP4916-63	12.0	10-34-0		11	14	17	22	26	31	36	42	48	55			14.3
CP4916-63	12.5	10-34-0		12	16	21	25	31	37	43	50	57				14.9
CP4916-63	13.0	10-34-0	11	15	19	24	30	36	43	50	58					15.5
CP4916-63	13.5	10-34-0	12	17	22	28	35	42	50	58						16.0

Orifice Options for

10-34-0

Below is flow data at 30 psi for 3 orifices above and below your orifice.

For use with Speed and Pressure

GPA Water =	Operating	Thru 1 orifice						30) in. Spac	cing						Thru 1 orifice
GPA 10-34-0 x	Pressure	10-34-0					Gallor	ıs per A	Acre (GI	PA) of 1	0-34-0					Water
1.19	PSI	GPM	3.0 mph	3.5 mph	4.0 mph	4.5 mph	5.0 mph	5.5 mph	6.0 mph	6.5 mph	7.0 mph	7.5 mph	8.0 mph	9.0 mph	10.0 mph	GPM
CP4916-57	30	0.2911	19.2	16.5	14.4	12.8	11.5	10.5	9.6	8.9	8.2	7.7	7.2	6.4	5.8	0.3460
CP4916-59	30	0.3155	20.8	17.8	15.6	13.9	12.5	11.4	10.4	9.6	8.9	8.3	7.8	6.9	6.2	0.3750
CP4916-61	30	0.3399	22.4	19.2	16.8	15.0	13.5	12.2	11.2	10.4	9.6	9.0	8.4	7.5	6.7	0.4040
CP4916-63	30	0.3576	23.6	20.2	17.7	15.7	14.2	12.9	11.8	10.9	10.1	9.4	8.9	7.9	7.1	0.4250
CP4916-65	30	0.3803	25.1	21.5	18.8	16.7	15.1	13.7	12.5	11.6	10.8	10.0	9.4	8.4	7.5	0.4520
CP4916-67	30	0.4047	26.7	22.9	20.0	17.8	16.0	14.6	13.4	12.3	11.4	10.7	10.0	8.9	8.0	0.4810
CP4916-68	30	0.4173	27.5	23.6	20.7	18.4	16.5	15.0	13.8	12.7	11.8	11.0	10.3	9.2	8.3	0.4960

System Specifications

Implement:	Planter	
Width:	60	ft
Effect. Row Spacing:	30	inches
No. of Rows:	24	rows

mph	6.0	Target Speed:
psi	30	Target Pressure:
gpa	12.0	Target Prod. GPA:
gpm	8.7	'd Total Prod. GPM:

Req Req'd Total Water GPM: **10.4** gpm

Full Rate Orifice: CP4916-63

0.3636 gpm/orif. Req'd Prod. GPM:

#63 Prod. GPM: 0.3576 gpm/orif. **11.8** gpa #63 Prod. GPA:

@ 6 mph & 30 psi

Op. Press. of #63 Orifice: @ 6 mph & 12 gpa

31 psi



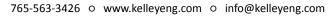
Note: Always insert Orifice Plate with side marked with number facing the outlet.

MATERIAL: Stainless Steel



"Our mission is to help you realize the potential of your investment."







CP4916-63 The -63 represents the diameter of the orifice opening per 1000ths of an inch. In this case, 63/1000 inch or 0.0630 inch.





Note: Always insert Orifice Plate with side marked with number facing the outlet.

MATERIAL: Stainless Steel

- Graphic from TeeJet Catalog 51 2011.

Troubleshooting

PRESSURE - It is higher or lower than the Pressure Chart above shows.

HIGH Look for restrictions down stream from the pressure gauge.

Examples: A pinched hose(s), plugged orifices, a shut-off did fully open, a faulty pressure gauge, or gauge protector.

A faulty flow meter sensor or rotor, or material in the flow meter causing it to drag.

LOW Look for break(s) in the line down stream from the pressure gauge.

Examples: A split hose, a hose off, an orifice left out, the wrong orifice size, a faulty pressure gauge, or gauge protector.

LOW Check for restrictions before the pressure gauge. If using a Controller, it would also not be able to maintain rate at the desired speed.

Examples: Air in the pump, plugged filters, pinched hose, or plugged tank outlet.

RATE - It is jumping up and down on my controller and won't stay steady.

- 1. Check the filters in the system.
- (Jumping more than ±0.2 mph is usually not normal) **2.** Check the speed on your monitor. Is it steady?
- 3. Try running in Manual. Can you manually adjust the pressure and rate? (Manual mode is not available in all systems)
- Check the Flow Meter. Is the turbine spinning freely?
- Give us a call at 765-563-3426.

We are available to help you troubleshoot your system. Usually we can solve any problems over the phone and get you going. We are also available for an in field service call if needed.

GPA - My Total Gallons or my Gallons per Acre Rate are off. Which way do I move my Flow Meter calibration number?

- First Is the monitor displaying the correct rate? If it is displaying and maintaining the correct rate, then keep on reading below. If the monitor is NOT maintaining the correct rate, then refer to the list above.
- If you are not getting enough on per acre OR covering too many acres per load, then you need to raise your number. Too Little Usually a couple of tenths at a time (0.2) or twenty (20) at a time on a Raven monitor.
- Too Much If you are getting too MUCH on per acre OR not covering enough acres per load, then you need to lower your number. Usually a couple of tenths at a time (0.2) or twenty (20) at a time on a Raven monitor.
 - Give us a call at 765-563-3426.



Kelley Engineering LLC 3367 West 1150 South

Brookston, IN 47923

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