

AGXCEL MANX QUICK START GUIDE

(READ INSTRUCTIONS COMPLETELY BEFORE BEGINNING INSTALLATION)

Precision Liquid Fertilizer Solutions

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www.agxcel.com
where precision meets the soil...

The manual rate controller works by using the orifice rate charts to find the required GPA rate.

Here are the step by step instructions required to achieve your desired GPA requirements:

1. Determine your target GPA requirements – Example 3 GPA
2. Determine your target MPH requirements – Example 5 MPH
3. In this case – the closest rate is 2.84. So the PSI will have to be estimated at approximately 23 psi.
4. The GRAY orifice would be used in this requirement.
5. It is critical that the orifice selection size DOES NOT go over 25 PSI!!
6. Turn the black knob on the MANX until the system pressure reaches the required PSI according to the rate chart
7. Drive the required MPH



For Example:
5 MPH
3 GPA
Set your pressure to 23

Orifice Color (Approx Size)	PSI	Gal/Min 28-0-0	MPH						
			4.0	4.5	5.0	5.5	6.0	6.5	7.0
Pink (24)	10	0.033	1.62	1.44	1.30	1.18	1.08	1.00	0.93
	20	0.046	2.28	2.02	1.82	1.66	1.52	1.40	1.30
	30	0.057	2.80	2.49	2.24	2.04	1.87	1.73	1.60
	40	0.065	3.24	2.88	2.59	2.36	2.16	1.99	1.85
	50	0.073	3.64	3.23	2.91	2.64	2.42	2.24	2.08
	60	0.081	3.99	3.54	3.19	2.90	2.66	2.45	2.28
Gray (30)	10	0.050	2.50	2.22	2.00	1.82	1.66	1.54	1.43
	20	0.072	3.55	3.15	2.84	2.58	2.37	2.18	2.03
	30	0.088	4.34	3.85	3.47	3.15	2.89	2.67	2.48
	40	0.101	4.99	4.44	4.00	3.63	3.33	3.07	2.85
	50	0.112	5.56	4.95	4.45	4.05	3.71	3.42	3.18
	60	0.124	6.13	5.45	4.91	4.46	4.09	3.77	3.50

The MANX controller is designed to regulate the speed of the pumps to increase system pressure and volume. The controller does not increase or decrease speed automatically as this must be performed manually. The user MUST maintain a constant speed in order to maintain the proper application rate. Unlike an Auto Rate Controller system that automatically adjusts the rate; the MANX system will not perform these functions. When the desired GPA rate requires change, the rate charts must be used to recalculate the required pressure setting and possible NEW orifice sizing.

Remember it is CRITICAL that system pressure NEVER exceeds 25 PSI as this applies undue stress to the electric pumps. The electric pumps can by far handle the increases pressure over 25PSI but this high pressure will create excessive heat within the pumps and will wear them out much faster. By running the system pressure below 25 PSI, this will allow the pumps to run much cooler and perform more efficiently.

Additionally, remember to select a pressure setting that does not fall below 10 PSI at the system requires at least 8--9 PSI to open up all system check valves.



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