

AGXCEL COLORED DISC ORIFICE RATE CHARTS FOR 10" SPACING
(Read Instructions Completely before Beginning Installation)**10"****GX2 ELECTRIC PUMPS**

The AgXcel GX2 Dual Pump electric system is designed with a 2# or 4# inline check valve. AgXcel highly recommends pressure settings to fall between

Minimum - 10psi**Maximum - 20psi**

This range will allow for the check valves to properly open for equal flow on each row, and ensure that the electric pumps do not overheat at higher pressure settings. It is important that if system pressure rises above 20psi CHANGE to a larger orifice or lower your MPH.

**GX5 HYDRAULIC PUMPS**

The AgXcel GX5 Hydraulic Pump system is designed with an 8# inline check valve. AgXcel highly recommends pressure settings to fall between

Minimum - 15psi**Maximum - 75psi**

This range will allow for the check valves to properly open for equal flow on each row, and ensure that the GX5 hydraulic pump operates at a sufficient pressure range.

CAUTION!

- Cold temperatures will have a dramatic effect on electric pumps systems. This includes increased current draw from the tractors electrical system, higher operating system pressure that will increase the chances of overheating of pumps.
- These rate charts are for informational purposes only. GPA rates are affected by many environmental conditions. Rates charts are only to be used a reference and or a starting point for GPA requirements.
- End users must still perform a liquid row catch test to ensure accurate rates and flow.
- The AgXcel charts are calculated for 10-34-0 which has a density of 11.65 and a conversion factor of 1.18

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PINK ORIFICE (24)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.023	5	4.49	3.85	3.37	2.99	2.69	2.45	2.25	2.07	1.92	1.80	1.68
0.032	10	6.32	5.42	4.74	4.21	3.79	3.45	3.16	2.92	2.71	2.53	2.37
0.039	15	7.82	6.70	5.86	5.21	4.69	4.26	3.91	3.61	3.35	3.13	2.93
0.045	20	8.98	7.70	6.74	5.99	5.39	4.90	4.49	4.15	3.85	3.59	3.37
0.050	25	9.98	8.55	7.48	6.65	5.99	5.44	4.99	4.61	4.28	3.99	3.74
0.055	30	10.98	9.41	8.23	7.32	6.59	5.99	5.49	5.07	4.70	4.39	4.12
0.060	35	11.81	10.12	8.86	7.87	7.09	6.44	5.90	5.45	5.06	4.72	4.43
0.064	40	12.64	10.83	9.48	8.43	6.89	6.89	6.32	5.83	5.42	5.06	4.74
0.068	45	13.47	11.55	10.10	8.98	8.08	7.35	6.74	6.22	5.77	5.39	5.05
0.073	50	14.47	12.40	10.85	9.65	8.68	7.89	7.23	6.68	6.20	5.79	5.43
0.078	60	15.47	13.26	11.60	10.31	9.28	8.44	7.73	7.14	6.63	6.19	5.80

GREY ORIFICE (30)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.023	5	4.49	3.85	3.37	2.99	2.69	2.45	2.25	2.07	1.92	1.80	1.68
0.048	10	9.48	8.13	7.11	6.32	5.69	5.17	4.74	4.38	4.06	3.79	3.56
0.059	15	11.64	9.98	8.73	7.76	6.99	6.35	5.82	5.37	4.99	4.66	4.37
0.068	20	13.47	11.55	10.10	8.98	8.08	7.35	6.74	6.22	5.77	5.39	5.05
0.076	25	14.97	12.83	11.23	9.98	8.98	8.16	7.48	6.91	6.42	5.99	5.61
0.083	30	16.47	14.11	12.35	10.98	9.88	8.98	8.23	7.60	7.06	6.59	6.17
0.090	35	17.80	15.25	13.35	11.86	10.68	9.71	8.90	8.21	7.63	7.12	6.67
0.096	40	18.96	16.25	14.22	12.64	10.34	10.34	9.48	8.75	8.13	7.58	7.11
0.102	45	20.29	17.39	15.22	13.53	12.17	11.07	10.15	9.37	8.70	8.12	7.61
0.109	50	21.62	18.53	16.22	14.41	12.97	11.79	10.81	9.98	9.27	8.65	8.11
0.118	60	23.28	19.96	17.46	15.52	13.97	12.70	11.64	10.75	9.98	9.31	8.73

BLACK ORIFICE (35)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.046	5	9.15	7.84	6.86	6.10	5.49	4.99	4.57	4.22	3.92	3.66	3.43
0.066	10	12.97	11.12	9.73	8.65	7.78	7.08	6.49	5.99	5.56	5.19	4.86
0.081	15	15.97	13.69	11.98	10.64	9.58	8.71	7.98	7.37	6.84	6.39	5.99
0.092	20	18.30	15.68	13.72	12.20	10.98	9.98	9.15	8.44	7.84	7.32	6.86
0.103	25	20.46	17.53	15.34	13.64	12.27	11.16	10.23	9.44	8.77	8.18	7.67
0.113	30	22.45	19.25	16.84	14.97	13.47	12.25	11.23	10.36	9.62	8.98	8.42
0.123	35	24.28	20.81	18.21	16.19	14.57	13.25	12.14	11.21	10.41	9.71	9.11
0.131	40	25.95	22.24	19.46	17.30	14.15	14.15	12.97	11.98	11.12	10.38	9.73
0.139	45	27.61	23.66	20.71	18.41	16.57	15.06	13.80	12.74	11.83	11.04	10.35
0.150	50	29.60	25.38	22.20	19.74	17.76	16.15	14.80	13.66	12.69	11.84	11.10
0.160	60	31.77	27.23	23.83	21.18	19.06	17.33	15.88	14.66	13.61	12.71	11.91

BROWN ORIFICE (41)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.062	5	12.31	10.55	9.23	8.21	7.38	6.71	6.15	5.68	5.27	4.92	4.62
0.088	10	17.46	14.97	13.10	11.64	10.48	9.53	8.73	8.06	7.48	6.99	6.55
0.108	15	21.46	18.39	16.09	14.30	12.87	11.70	10.73	9.90	9.20	8.58	8.05
0.124	20	24.62	21.10	18.46	16.41	14.77	13.43	12.31	11.36	10.55	9.85	9.23
0.139	25	27.61	23.66	20.71	18.41	16.57	15.06	13.80	12.74	11.83	11.04	10.35
0.153	30	30.27	25.95	22.70	20.18	18.16	16.51	15.14	13.97	12.97	12.11	11.35
0.165	35	32.60	27.94	24.45	21.73	19.56	17.78	16.30	15.05	13.97	13.04	12.22
0.176	40	34.93	29.94	26.20	23.28	19.05	19.05	17.46	16.12	14.97	13.97	13.10
0.193	45	38.25	32.79	28.69	25.50	22.95	20.87	19.13	17.66	16.39	15.30	14.35
0.204	50	40.42	34.64	30.31	26.94	24.25	22.04	20.21	18.65	17.32	16.17	15.16
0.216	60	42.74	36.64	32.06	28.50	25.65	23.32	21.37	19.73	18.32	17.10	16.03

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ORANGE ORIFICE (46)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.079	5	15.63	13.40	11.73	10.42	9.38	8.53	7.82	7.22	6.70	6.25	5.86
0.112	10	22.12	18.96	16.59	14.75	13.27	12.07	11.06	10.21	9.48	8.85	8.30
0.137	15	27.11	23.24	20.33	18.07	16.27	14.79	13.56	12.51	11.62	10.84	10.17
0.158	20	31.27	26.80	23.45	20.85	18.76	17.06	15.63	14.43	13.40	12.51	11.73
0.176	25	34.93	29.94	26.20	23.28	20.96	19.05	17.46	16.12	14.97	13.97	13.10
0.193	30	38.25	32.79	28.69	25.50	22.95	20.87	19.13	17.66	16.39	15.30	14.35
0.209	35	41.41	35.50	31.06	27.61	24.85	22.59	20.71	19.11	17.75	16.57	15.53
0.223	40	44.24	37.92	33.18	29.49	24.13	24.13	22.12	20.42	18.96	17.70	16.59
0.240	45	47.57	40.77	35.68	31.71	28.54	25.95	23.78	21.95	20.39	19.03	17.84
0.251	50	49.73	42.63	37.30	33.15	29.84	27.13	24.86	22.95	21.31	19.89	18.65
0.274	60	54.22	46.47	40.67	36.15	32.53	29.57	27.11	25.02	23.24	21.69	20.33

MAROON ORIFICE (52)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.139	5	27.44	23.52	20.58	18.30	16.47	14.97	13.72	12.67	11.76	10.98	10.29
0.147	10	29.11	24.95	21.83	19.40	17.46	15.88	14.55	13.43	12.47	11.64	10.91
0.180	15	35.59	30.51	26.69	23.73	21.36	19.41	17.80	16.43	15.25	14.24	13.35
0.207	20	41.08	35.21	30.81	27.39	24.65	22.41	20.54	18.96	17.61	16.43	15.41
0.233	25	46.07	39.49	34.55	30.71	27.64	25.13	23.04	21.26	19.74	18.43	17.28
0.255	30	50.39	43.20	37.80	33.60	30.24	27.49	25.20	23.26	21.60	20.16	18.90
0.275	35	54.39	46.62	40.79	36.26	32.63	29.67	27.19	25.10	23.31	21.75	20.39
0.294	40	58.21	49.90	43.66	38.81	31.75	31.75	29.11	26.87	24.95	23.28	21.83
0.315	45	62.37	53.46	46.78	41.58	37.42	34.02	31.19	28.79	26.73	24.95	23.39
0.333	50	65.86	56.45	49.40	43.91	39.52	35.93	32.93	30.40	28.23	26.35	24.70
0.360	60	71.35	61.16	53.51	47.57	42.81	38.92	35.68	32.93	30.58	28.54	26.76

RED ORIFICE (63)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.160	5	31.60	27.09	23.70	21.07	18.96	17.24	15.80	14.58	13.54	12.64	11.85
0.203	10	40.25	34.50	30.19	26.83	24.15	21.95	20.12	18.58	17.25	16.10	15.09
0.249	15	49.23	42.20	36.92	32.82	29.54	26.85	24.62	22.72	21.10	19.69	18.46
0.287	20	56.88	48.76	42.66	37.92	34.13	31.03	28.44	26.25	24.38	22.75	21.33
0.322	25	63.70	54.60	47.78	42.47	38.22	34.75	31.85	29.40	27.30	25.48	23.89
0.352	30	69.69	59.73	52.27	46.46	41.81	38.01	34.84	32.16	29.87	27.88	26.13
0.381	35	75.34	64.58	56.51	50.23	45.21	41.10	37.67	34.77	32.29	30.14	28.25
0.407	40	80.50	69.00	60.37	53.67	48.91	43.91	40.25	37.15	34.50	32.20	30.19
0.428	45	84.82	72.71	63.62	56.55	50.89	46.27	42.41	39.15	36.35	33.93	31.81
0.467	50	92.47	79.26	69.36	61.65	55.48	50.44	46.24	42.68	39.63	36.99	34.68
0.498	60	98.63	84.54	73.97	65.75	59.18	53.80	49.31	45.52	42.27	39.45	36.99

C BLUE ORIFICE (80)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.235	5	46.57	39.92	34.93	31.05	27.94	25.40	23.28	21.49	19.96	18.63	17.46
0.329	10	65.20	55.88	48.90	43.46	39.12	35.56	32.60	30.09	27.94	26.08	24.45
0.403	15	79.83	68.43	59.88	53.22	47.90	43.55	39.92	36.85	34.21	31.93	29.94
0.465	20	92.14	78.98	69.11	61.43	55.28	50.26	46.07	42.53	39.49	36.86	34.55
0.521	25	103.12	88.39	77.34	68.75	61.87	56.25	51.56	47.59	44.19	41.25	38.67
0.570	30	112.93	96.80	84.70	75.29	67.76	61.60	56.47	52.12	48.40	45.17	42.35
0.616	35	121.91	104.50	91.43	81.28	73.15	66.50	60.96	56.27	52.25	48.77	45.72
0.659	40	130.39	111.77	97.80	86.93	71.12	71.12	65.20	60.18	55.88	52.16	48.90
0.700	45	138.54	118.75	103.91	92.36	83.13	75.57	69.27	63.94	59.38	55.42	51.95
0.747	50	147.86	126.74	110.89	98.57	88.72	80.65	73.93	68.24	63.37	59.14	55.45
0.806	60	159.67	136.86	119.75	106.44	95.80	87.09	79.83	73.69	68.43	63.87	59.88

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YELLOW ORIFICE (95)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.340	5	67.36	57.74	50.52	44.91	40.42	36.74	33.68	31.09	28.87	26.94	25.26
0.479	10	94.80	81.26	71.10	63.20	56.88	51.71	47.40	43.75	40.63	37.92	35.55
0.586	15	116.09	99.51	87.07	77.39	69.65	63.32	58.05	53.58	49.75	46.44	43.53
0.677	20	134.05	114.90	100.54	89.37	80.43	73.12	67.03	61.87	57.45	53.62	50.27
0.757	25	149.85	128.45	112.39	99.90	89.91	81.74	74.93	69.16	64.22	59.94	56.20
0.829	30	164.16	140.71	123.12	109.44	98.49	89.54	82.08	75.77	70.35	65.66	61.56
0.899	35	177.96	152.54	133.47	118.64	106.78	97.07	88.98	82.14	76.27	71.18	66.74
0.958	40	189.60	162.52	142.20	126.40	113.42	103.42	94.80	87.51	81.26	75.84	71.10
0.991	45	196.26	168.22	147.19	130.84	117.75	107.05	98.13	90.58	84.11	78.50	73.60
1.050	50	207.90	178.20	155.93	138.60	124.74	113.40	103.95	95.95	89.10	83.16	77.96
1.176	60	232.85	199.58	174.64	155.23	139.71	127.01	116.42	107.47	99.79	93.14	87.32

EM GREEN ORIFICE (110)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.456	5	90.29	77.39	67.72	60.19	54.17	49.25	45.14	41.67	38.69	36.12	33.86
0.638	10	126.40	108.35	94.80	84.27	75.84	68.95	63.20	58.34	54.17	50.56	47.40
0.782	15	154.84	132.72	116.13	103.23	92.91	84.46	77.42	71.47	66.36	61.94	58.07
0.899	20	177.96	152.54	133.47	118.64	106.78	97.07	88.98	82.14	76.27	71.18	66.74
1.008	25	199.58	171.07	149.69	133.06	119.75	108.86	99.79	92.12	85.54	79.83	74.84
1.109	30	219.54	188.18	164.66	146.36	131.73	119.75	109.77	101.33	94.09	87.82	82.33
1.193	35	236.17	202.44	177.13	157.45	141.70	128.82	118.09	109.00	101.22	94.47	88.57
1.277	40	252.81	216.69	189.60	168.54	137.89	137.89	126.40	116.68	108.35	101.12	94.80
1.369	45	271.10	232.37	203.33	180.73	162.66	147.87	135.55	125.12	116.19	108.44	101.66
1.470	50	291.06	249.48	218.30	194.04	174.64	158.76	145.53	134.34	124.74	116.42	109.15
1.562	60	309.36	265.16	232.02	206.24	185.61	168.74	154.68	142.78	132.58	123.74	116.01

WHITE ORIFICE (125)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.571	5	113.10	96.94	84.82	75.40	67.86	61.69	56.55	52.20	48.47	45.24	42.41
0.806	10	159.67	136.86	119.75	106.44	95.80	87.09	79.83	73.69	68.43	63.87	59.88
0.991	15	196.26	168.22	147.19	130.84	117.75	107.05	98.13	90.58	84.11	78.50	73.60
1.142	20	226.20	193.88	169.65	150.80	135.72	123.38	113.10	104.40	96.94	90.48	84.82
1.277	25	252.81	216.69	189.60	168.54	151.68	137.89	126.40	116.68	108.35	101.12	94.80
1.394	30	276.09	236.65	207.07	184.06	165.65	150.60	138.05	127.43	118.32	110.44	103.53
1.512	35	299.38	256.61	224.53	199.58	179.63	163.30	149.69	138.17	128.30	119.75	112.27
1.613	40	319.33	273.72	239.50	212.89	174.18	174.18	159.67	147.39	136.86	127.73	119.75
1.806	45	357.59	306.50	268.19	238.39	214.55	195.05	178.79	165.04	153.25	143.04	134.10
1.893	50	374.89	321.33	281.16	249.92	224.93	204.48	187.44	173.02	160.67	149.95	140.58
1.974	60	390.85	335.02	293.14	260.57	234.51	213.19	195.43	180.39	167.51	156.34	146.57

LIME ORIFICE (132)		MILES PER HOUR										
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0.921	5	182.29	156.25	136.72	121.52	109.37	99.43	91.14	84.13	78.12	72.91	68.36
1.302	10	257.80	220.97	193.35	171.86	154.68	140.62	128.90	118.98	110.48	103.12	96.67
1.596	15	316.01	270.86	237.01	210.67	189.60	172.37	158.00	145.85	135.43	126.40	118.50
1.840	20	364.24	312.21	273.18	242.83	218.54	198.68	182.12	168.11	156.10	145.70	136.59
2.058	25	407.48	349.27	305.61	271.66	244.49	222.26	203.74	188.07	174.64	162.99	152.81
2.251	30	445.74	382.06	334.30	297.16	267.44	243.13	222.87	205.73	191.03	178.30	167.15
2.436	35	482.33	413.42	361.75	321.55	289.40	263.09	241.16	222.61	206.71	192.93	180.87
2.604	40	515.59	441.94	386.69	343.73	281.23	281.23	257.80	237.97	220.97	206.24	193.35
2.735	45	541.54	464.18	406.15	361.03	324.92	295.38	270.77	249.94	232.09	216.62	203.08
2.929	50	579.96	497.11	434.97	386.64	347.97	316.34	289.98	267.67	248.55	231.98	217.48
3.192	60	632.02	541.73	474.01	421.34	379.21	344.74	316.01	291.70	270.86	252.81	237.01

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ROYAL BLUE ORIFICE (141)		MILES PER HOUR											
GPM	PSI	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	
1.223	5	242.16	207.57	181.62	161.44	145.30	132.09	121.08	111.77	103.78	96.86	90.81	
1.302	10	257.80	220.97	193.35	171.86	154.68	140.62	128.90	118.98	110.48	103.12	96.67	
1.596	15	316.01	270.86	237.01	210.67	189.60	172.37	158.00	145.85	135.43	126.40	118.50	
1.840	20	364.24	312.21	273.18	242.83	218.54	198.68	182.12	168.11	156.10	145.70	136.59	
2.058	25	407.48	349.27	305.61	271.66	244.49	222.26	203.74	188.07	174.64	162.99	152.81	
2.251	30	445.74	382.06	334.30	297.16	267.44	243.13	222.87	205.73	191.03	178.30	167.15	
2.436	35	482.33	413.42	361.75	321.55	289.40	263.09	241.16	222.61	206.71	192.93	180.87	
2.604	40	515.59	441.94	386.69	343.73	281.23	281.23	257.80	237.97	220.97	206.24	193.35	
2.817	45	557.84	478.15	418.38	371.89	334.70	304.27	278.92	257.46	239.07	223.13	209.19	
3.006	50	595.09	510.08	446.32	396.73	357.06	324.60	297.55	274.66	255.04	238.04	223.16	
3.192	60	632.02	541.73	474.01	421.34	379.21	344.74	316.01	291.70	270.86	252.81	237.01	

AGXCEL COLORED DISC ORIFICE RATE CHARTS FOR 10" SPACING

(Read Instructions Completely before Beginning Installation)

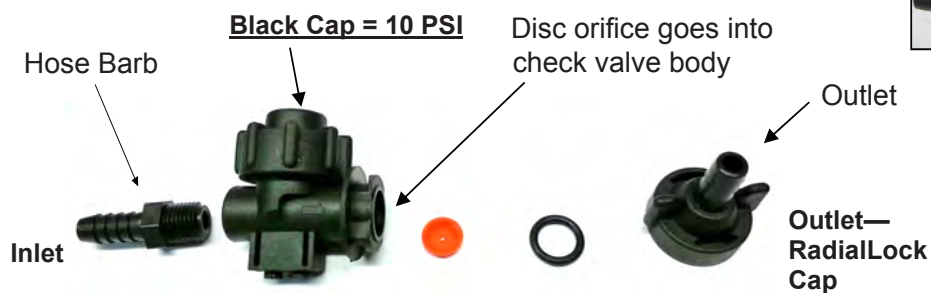
10"

Check Valves

10 lb check valve with 3/8" hose barbs

PN - 313

The recommended check valve for most **AgX installations** is the 10 lb check with 3/8" hose barbs. This works with 3/8" rubber hose which AgXcel recommends for most applications over 10 GPA on 30" rows. The recommended minimum system operating pressure for this check is 20 psi, to ensure all checks open fully.



Components
Liquid



FLOW →

GX5

4 lb check valve with 1/4" quick connect fittings

PN - 310

4 lb check valves are typically used with **GX electric pump systems**. AgXcel recommends this valve for use with 1/4" tubing applying up to 10 GPA on 30" rows. The recommended minimum system operating pressure for this check is 10 psi, to ensure all checks open fully.



FLOW →

**GX Electric
Pump Systems**