



UNIVERSAL TIP SELECTION CHART

TIP SPACING: **30** INCHES

Tip No. (Strainer Screen Size)	Liquid Pressure in psi	Capacity 1 Nozzle in GPM	Capacity 1 Nozzle in oz./min.	Gallons Per Acre - 30" Nozzle Spacing																				
				2 mph	3 mph	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph	15 mph	16 mph	18 mph	20 mph	25 mph						
01 Orange	15	0.071	7.8	4.0	6.0	7.8	9.6	11.4	13.2	15.0	16.8	18.6	20.4	22.2	24.0	25.8	27.6	29.4	31.2	33.0	34.8	36.6	38.4	40.2
	20	0.071	9.1	7.0	4.7	3.0	2.4	2.0	1.7	1.5	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1
	25	0.079	10	7.8	5.2	3.9	3.1	2.6	2.2	2.0	1.6	1.3	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1
	30	0.087	11	8.6	5.7	4.3	3.4	2.9	2.5	2.2	1.7	1.4	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1
	35	0.094	12	9.3	6.2	4.7	3.7	3.1	2.7	2.3	1.9	1.6	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	40	0.10	13	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.0	1.7	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2
	50	0.11	14	10.9	7.3	5.4	4.4	3.6	3.1	2.7	2.2	1.8	1.6	1.5	1.4	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3
	60	0.12	15	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.4	2.0	1.7	1.6	1.5	1.3	1.2	1.0	0.9	0.7	0.6	0.5	0.4	0.3
	70	0.13	17	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.6	2.1	1.8	1.7	1.6	1.4	1.3	1.0	0.9	0.7	0.6	0.5	0.4	0.3
	75	0.14	18	13.9	9.2	6.9	5.5	4.6	4.0	3.5	2.8	2.3	2.0	1.8	1.7	1.5	1.4	1.1	1.0	0.9	0.7	0.6	0.5	0.4
	80	0.14	18	13.9	9.2	6.9	5.5	4.6	4.0	3.5	2.8	2.3	2.0	1.8	1.7	1.5	1.4	1.1	1.0	0.9	0.7	0.6	0.5	0.4
	90	0.15	19	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	2.0	1.9	1.7	1.5	1.2	1.0	0.9	0.7	0.6	0.5	0.4
	100	0.16	20	15.8	10.6	7.9	6.3	5.3	4.5	4.0	3.2	2.6	2.3	2.1	2.0	1.8	1.6	1.3	1.0	0.9	0.7	0.6	0.5	0.4
115	0.17	22	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.4	2.8	2.4	2.2	2.1	1.9	1.7	1.3	1.0	0.9	0.7	0.6	0.5	0.4	
015 Green	15	0.092	12	9.1	6.1	4.6	3.6	3.0	2.6	2.3	1.8	1.5	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2	
	20	0.11	14	10.9	7.3	5.4	4.4	3.6	3.1	2.7	2.2	1.8	1.6	1.5	1.4	1.2	1.1	0.9	0.7	0.6	0.5	0.4	0.3	
	25	0.12	15	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.4	2.0	1.7	1.6	1.5	1.3	1.2	1.0	0.9	0.7	0.6	0.5	0.4	
	30	0.13	17	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.6	2.1	1.8	1.7	1.6	1.4	1.3	1.0	0.9	0.7	0.6	0.5	0.4	
	35	0.14	18	13.9	9.2	6.9	5.5	4.6	4.0	3.5	2.8	2.3	2.0	1.8	1.7	1.5	1.4	1.1	1.0	0.9	0.7	0.6	0.5	0.4
	40	0.15	19	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	2.0	1.9	1.7	1.5	1.2	1.0	0.9	0.7	0.6	0.5	0.4
	50	0.17	22	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.4	2.8	2.4	2.2	2.1	1.9	1.7	1.3	1.0	0.9	0.7	0.6	0.5	0.4
	60	0.18	23	17.8	11.9	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.4	2.2	2.0	1.8	1.4	1.0	0.9	0.7	0.6	0.5	0.4
	70	0.20	26	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.0	3.3	2.8	2.6	2.5	2.2	2.0	1.6	1.2	1.0	0.9	0.7	0.6	0.5
	75	0.21	27	21	13.9	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.8	2.6	2.3	2.1	1.7	1.3	1.0	0.9	0.7	0.6	0.5
	80	0.21	27	21	13.9	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.8	2.6	2.3	2.1	1.7	1.3	1.0	0.9	0.7	0.6	0.5
	90	0.23	29	23	15.2	11.4	9.1	7.6	6.5	5.7	4.6	3.8	3.3	3.0	2.8	2.5	2.3	1.8	1.4	1.0	0.9	0.7	0.6	0.5
	100	0.24	31	24	15.8	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.2	3.0	2.6	2.4	1.9	1.4	1.0	0.9	0.7	0.6	0.5
115	0.25	32	25	16.5	12.4	9.9	8.3	7.1	6.2	5.0	4.1	3.5	3.3	3.1	2.8	2.5	2.0	1.5	1.0	0.9	0.7	0.6	0.5	
02 Yellow	15	0.12	15	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.4	2.0	1.7	1.6	1.5	1.3	1.2	1.0	0.9	0.7	0.6	0.5	0.4	
	20	0.14	18	13.9	9.2	6.9	5.5	4.6	4.0	3.5	2.8	2.3	2.0	1.8	1.7	1.5	1.4	1.1	1.0	0.9	0.7	0.6	0.5	
	25	0.16	20	15.8	10.6	7.9	6.3	5.3	4.5	4.0	3.2	2.6	2.3	2.1	2.0	1.8	1.6	1.3	1.0	0.9	0.7	0.6	0.5	
	30	0.17	22	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.4	2.8	2.4	2.2	2.1	1.9	1.7	1.3	1.0	0.9	0.7	0.6	0.5	
	35	0.19	24	18.8	12.5	9.4	7.5	6.3	5.4	4.7	3.8	3.1	2.7	2.5	2.4	2.1	1.9	1.5	1.1	0.9	0.7	0.6	0.5	
	40	0.20	26	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.0	3.3	2.8	2.6	2.5	2.2	2.0	1.6	1.2	1.0	0.9	0.7	0.6	0.5
	50	0.22	29	22	14.5	10.9	8.7	7.3	6.2	5.4	4.4	3.6	3.1	2.9	2.7	2.4	2.2	1.7	1.3	1.0	0.9	0.7	0.6	0.5
	60	0.24	31	24	15.8	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.2	3.0	2.6	2.4	1.9	1.4	1.0	0.9	0.7	0.6	0.5
	70	0.26	33	26	17.2	12.9	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.4	3.2	2.9	2.6	2.1	1.6	1.2	1.0	0.9	0.7	0.6
	75	0.27	35	27	17.8	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.6	3.3	3.0	2.7	2.1	1.6	1.2	1.0	0.9	0.7	0.6
	80	0.28	36	28	18.5	13.9	11.1	9.2	7.9	6.9	5.5	4.6	4.0	3.7	3.5	3.1	2.8	2.2	1.6	1.2	1.0	0.9	0.7	0.6
	90	0.30	38	30	19.8	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	4.0	3.7	3.3	3.0	2.4	1.8	1.4	1.0	0.9	0.7	0.6
	100	0.32	41	32	21	15.8	12.7	10.6	9.1	7.9	6.3	5.3	4.5	4.2	4.0	3.5	3.2	2.5	1.8	1.4	1.0	0.9	0.7	0.6
115	0.34	44	34	22	16.8	13.5	11.2	9.6	8.4	6.7	5.6	4.8	4.5	4.2	3.7	3.4	2.7	2.0	1.5	1.0	0.9	0.7	0.6	
025 Violet	15	0.15	19	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	2.0	1.9	1.7	1.5	1.2	1.0	0.9	0.7	0.6	0.5	
	20	0.18	23	17.8	11.9	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.4	2.2	2.0	1.8	1.4	1.0	0.9	0.7	0.6	0.5	
	25	0.20	26	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.0	3.3	2.8	2.6	2.5	2.2	2.0	1.6	1.2	1.0	0.9	0.7	0.6	
	30	0.22	28	22	14.5	10.9	8.7	7.3	6.2	5.4	4.4	3.6	3.1	2.9	2.7	2.4	2.2	1.7	1.3	1.0	0.9	0.7	0.6	
	35	0.23	29	23	15.2	11.4	9.1	7.6	6.5	5.7	4.6	3.8	3.3	3.0	2.8	2.5	2.3	1.8	1.4	1.0	0.9	0.7	0.6	
	40	0.25	32	25	16.5	12.4	9.9	8.3	7.1	6.2	5.0	4.1	3.5	3.3	3.1	2.8	2.5	2.0	1.5	1.0	0.9	0.7	0.6	
	50	0.28	36	28	18.5	13.9	11.1	9.2	7.9	6.9	5.5	4.6	4.0	3.7	3.5	3.1	2.8	2.2	1.6	1.2	1.0	0.9	0.7	
	60	0.31	40	31	20	15.3	12.3	10.2	8.8	7.7	6.1	5.1	4.4	4.1	3.8	3.4	3.1	2.5	1.8	1.4	1.0	0.9	0.7	0.6
	70	0.33	42	33	22	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.4	4.1	3.6	3.3	2.6	1.9	1.4	1.0	0.9	0.7	0.6
	75	0.34	44	34	22	16.8	13.5	11.2	9.6	8.4	6.7	5.6	4.8	4.5	4.2	3.7	3.4	2.7	2.0	1.5	1.0	0.9	0.7	0.6
	80	0.35	45	35	23	17.3	13.9	11.6	9.9	8.7	6.9	5.8	5.0	4.6	4.3	3.9	3.5	2.8	2.1	1.6	1.2	1.0	0.9	0.7
	90	0.38	49	38	25	18.8	15.0	12.5	10.7	9.4	7.5	6.3	5.4	5.0	4.7	4.2	3.8	3.0	2.2	1.7	1.3	1.0	0.9	0.7
	100	0.40	51	40	26	19.8	15.8	13.2	11.3	9.9	7.9	6.6	5.7	5.3	5.0	4.4	4.0	3.2	2.4	1.8	1.4	1.0	0.9	0.7
115	0.42	54	42	28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.5	5.2	4.6	4.2	3.3	2.5	1.9	1.4	1.0	0.9	0.7	
03 Blue	15	0.18	23	17.8	11.9	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.4	2.2	2.0	1.8	1.4	1.0	0.9	0.7	0.6	0.5	
	20	0.21	27	21	13.9	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.8	2.6	2.3	2.1	1.7	1.3	1.0	0.9	0.7	0.6	
	25	0.24	31	24	15.8	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.2	3.0	2.6	2.4	1.9	1.4	1.0	0.9	0.7	0.6	
	30	0.26	33	26	17.2	12.9	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.4	3.2	2.9	2.6	2.1	1.6	1.2	1.0	0.9	0.7	
	35	0.28	36	28	18.5	13.9	11.1	9.2	7.9	6.9	5.5	4.6	4.0	3.7	3.5	3.1	2.8	2.2						



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Tip No. (Strainer Screen Size)	Liquid Pressure in psi	Capacity 1 Nozzle in GPM	Capacity 1 Nozzle in oz./min.	Gallons Per Acre - 30" Nozzle Spacing														
				2 mph	3 mph	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph	15 mph	16 mph	18 mph	20 mph	25 mph
04 Red	15	0.24	31	24	15.8	11.9	9.5	7.9	6.8	5.9	4.8	3.4	4.8	4.0	3.0	2.5	2.4	1.9
	20	0.28	36	28	18.5	13.9	11.1	9.2	7.9	6.9	5.5	4.0	5.5	4.0	3.7	3.5	3.1	2.2
	25	0.32	41	32	21	15.8	12.7	10.6	9.1	7.9	6.3	5.3	4.5	4.2	4.0	3.5	3.2	2.5
	30	0.35	45	35	23	17.3	13.9	11.6	9.9	8.7	6.9	5.8	5.0	4.6	4.3	3.9	3.5	2.8
	35	0.37	47	37	24	18.3	14.7	12.2	10.5	9.2	7.3	6.1	5.2	4.9	4.6	4.1	3.7	2.9
	40	0.40	51	40	26	19.8	15.8	13.2	11.3	9.9	7.9	6.6	5.7	5.3	5.0	4.4	4.0	3.2
	50	0.45	58	45	30	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.9	5.6	5.0	4.5	3.6
	60	0.49	63	49	32	24	19.4	16.2	13.9	12.1	9.7	8.1	6.9	6.5	6.1	5.4	4.9	3.9
	70	0.53	68	52	35	26	21	17.5	15.0	13.1	10.5	8.7	7.5	7.0	6.6	5.8	5.2	4.2
	75	0.55	70	54	36	27	22	18.2	15.6	13.6	10.9	9.1	7.8	7.3	6.8	6.1	5.4	4.4
	80	0.57	73	56	38	28	23	18.8	16.1	14.1	11.3	9.4	8.1	7.5	7.1	6.3	5.6	4.5
	90	0.60	77	59	40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.9	7.4	6.6	5.9	4.8
100	0.63	81	62	42	31	25	21	17.8	15.6	12.5	10.4	8.9	8.3	7.8	6.9	6.2	5.0	
115	0.68	87	67	45	34	27	22	19.2	16.8	13.5	11.2	9.6	9.0	8.4	7.5	6.7	5.4	
05 Brown	15	0.31	40	31	20	15.3	12.3	10.2	8.8	7.7	6.1	5.1	4.4	4.1	3.8	3.4	3.1	2.5
	20	0.35	45	35	23	17.3	13.9	11.6	9.9	8.7	6.9	5.8	5.0	4.6	4.3	3.9	3.5	2.8
	25	0.40	51	40	26	19.8	15.8	13.2	11.3	9.9	7.9	6.6	5.7	5.3	5.0	4.4	4.0	3.2
	30	0.43	55	43	28	21	17.0	14.2	12.2	10.6	8.5	7.1	6.1	5.7	5.3	4.7	4.3	3.4
	35	0.47	60	47	31	23	18.6	15.5	13.3	11.6	9.3	7.8	6.6	6.2	5.8	5.2	4.7	3.7
	40	0.50	64	50	33	25	19.8	16.5	14.1	12.4	9.9	8.3	7.1	6.6	6.2	5.5	5.0	4.0
	50	0.56	72	55	37	28	22	18.5	15.8	13.9	11.1	9.2	7.9	7.4	6.9	6.2	5.5	4.4
	60	0.61	78	60	40	30	24	20	17.3	15.1	12.1	10.1	8.6	8.1	7.5	6.7	6.0	4.8
	70	0.66	84	65	44	33	26	22	18.7	16.3	13.1	10.9	9.3	8.7	8.2	7.3	6.5	5.2
	75	0.68	87	67	45	34	27	22	19.2	16.8	13.5	11.2	9.6	9.0	8.4	7.5	6.7	5.4
	80	0.71	91	70	47	35	28	23	20	17.6	14.1	11.7	10.0	9.4	8.8	7.8	7.0	5.6
	90	0.75	96	74	50	37	30	25	21	18.6	14.9	12.4	10.6	9.9	9.3	8.3	7.4	5.9
100	0.79	101	78	52	39	31	26	22	19.6	15.6	13.0	11.2	10.4	9.8	8.7	7.8	6.3	
115	0.85	109	84	56	42	34	28	24	21	16.8	14.0	12.0	11.2	10.5	9.4	8.4	6.7	
06 Gray	15	0.37	47	37	24	18.3	14.7	12.2	10.5	9.2	7.3	6.1	5.2	4.9	4.6	4.1	3.7	2.9
	20	0.42	54	42	28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.5	5.2	4.6	4.2	3.3
	25	0.47	60	47	31	23	18.6	15.5	13.3	11.6	9.3	7.8	6.6	6.2	5.8	5.2	4.7	3.7
	30	0.52	67	51	34	26	21	17.2	14.7	12.9	10.3	8.6	7.4	6.9	6.4	5.7	5.1	4.1
	35	0.56	72	55	37	28	22	18.5	15.8	13.9	11.1	9.2	7.9	7.4	6.9	6.2	5.5	4.4
	40	0.60	77	59	40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.9	7.4	6.6	5.9	4.8
	50	0.67	86	66	44	33	27	22	19.0	16.6	13.3	11.1	9.5	8.8	8.3	7.4	6.6	5.3
	60	0.73	93	72	48	36	29	24	21	18.1	14.5	12.0	10.3	9.6	9.0	8.0	7.2	5.8
	70	0.79	101	78	52	39	31	26	22	19.6	15.6	13.0	11.2	10.4	9.8	8.7	7.8	6.3
	75	0.82	105	81	54	41	32	27	23	20	16.2	13.5	11.6	10.8	10.1	9.0	8.1	6.5
	80	0.85	109	84	56	42	34	28	24	21	16.8	14.0	12.0	11.2	10.5	9.4	8.4	6.7
	90	0.90	115	89	59	45	36	30	25	22	17.8	14.9	12.7	11.9	11.1	9.9	8.9	7.1
100	0.95	122	94	63	47	38	31	27	24	18.8	15.7	13.4	12.5	11.8	10.5	9.4	7.5	
115	1.02	131	101	67	50	40	34	29	25	20	16.8	14.4	13.5	12.6	11.2	10.1	8.1	
08 White	15	0.49	63	49	32	24	19.4	16.2	13.9	12.1	9.7	8.1	6.9	6.5	6.1	5.4	4.9	3.9
	20	0.57	73	56	38	28	23	18.8	16.1	14.1	11.3	9.4	8.1	7.5	7.1	6.3	5.6	4.5
	25	0.63	81	62	42	31	25	21	17.8	15.6	12.5	10.4	8.9	8.3	7.8	6.9	6.2	5.0
	30	0.69	88	68	46	34	27	23	19.5	17.1	13.7	11.4	9.8	9.1	8.5	7.6	6.8	5.5
	35	0.75	96	74	50	37	30	25	21	18.6	14.9	12.4	10.6	9.9	9.3	8.3	7.4	5.9
	40	0.80	102	79	53	40	32	26	23	19.8	15.8	13.2	11.3	10.6	9.9	8.8	7.9	6.3
	50	0.89	114	88	59	44	35	29	25	22	17.6	14.7	12.6	11.7	11.0	9.8	8.8	7.0
	60	0.98	125	97	65	49	39	32	28	24	19.4	16.2	13.9	12.9	12.1	10.8	9.7	7.8
	70	1.06	136	105	70	52	42	35	30	26	21	17.5	15.0	14.0	13.1	11.7	10.5	8.4
	75	1.10	141	109	73	54	44	36	31	27	22	18.2	15.6	14.5	13.6	12.1	10.9	8.7
	80	1.13	145	112	75	56	45	37	32	28	22	18.6	16.0	14.9	14.0	12.4	11.2	8.9
	90	1.20	154	119	79	59	48	40	34	30	24	19.8	17.0	15.8	14.9	13.2	11.9	9.5
100	1.26	161	125	83	62	50	42	36	31	25	21	17.8	16.6	15.6	13.9	12.5	10.0	
115	1.36	174	135	90	67	54	45	38	34	27	22	19.2	18.0	16.8	15.0	13.5	10.8	
10 Light Blue	15	0.61	78	60	40	30	24	20	17.3	15.1	12.1	10.1	8.6	8.1	7.5	6.7	6.0	4.8
	20	0.71	91	70	47	35	28	23	20	17.6	14.1	11.7	10.0	9.4	8.8	7.8	7.0	5.6
	25	0.79	101	78	52	39	31	26	22	19.6	15.6	13.0	11.2	10.4	9.8	8.7	7.8	6.3
	30	0.87	111	86	57	43	34	29	25	22	17.2	14.4	12.3	11.5	10.8	9.6	8.6	6.9
	35	0.94	120	93	62	47	37	31	27	23	18.6	15.5	13.3	12.4	11.6	10.3	9.3	7.4
	40	1.00	128	99	66	50	40	33	28	25	19.8	16.5	14.1	13.2	12.4	11.0	9.9	7.9
	50	1.12	143	111	74	55	44	37	32	28	22	18.5	15.8	14.8	13.9	12.3	11.1	8.9
	60	1.22	156	121	81	60	48	40	35	30	24	20	17.3	16.1	15.1	13.4	12.1	9.7
	70	1.32	169	131	87	65	52	44	37	33	26	22	18.7	17.4	16.3	14.5	13.1	10.5
	75	1.37	175	136	90	68	54	45	39	34	27	23	19.4	18.1	17.0	15.1	13.6	10.9
	80	1.41	180	140	93	70	56	47	40	35	28	23	19.9	18.6	17.4	15.5	14.0	11.2
	90	1.50	192	149	99	74	59	50	42	37	30	25	21	19.8	18.6	16.5	14.9	11.9
100	1.58	202	156	104	78	63	52	45	39	31	26	22	21	19.6	17.4	15.6	12.5	
115	1.70	218	168	112	84	67	56	48	42	34	28	24	22	21	18.7	16.8	13.5	