

AI 80°/110° 38" TIP SPACING

ALL VALUES BASED ON WATER FOR OTHER LIQUIDS SEE USEFUL FORMULAS AND CONVERSIONS

mph		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	
		psi	gpm																
AI80015VS AI110015VS	30	0.130	5.1	4.5	4.1	3.7	3.4	3.1	2.9	2.7	2.5	2.4	2.3	2.1	2.0	1.9	1.8	1.8	1.7
	40	0.150	5.9	5.2	4.7	4.3	3.9	3.6	3.3	3.1	2.9	2.8	2.6	2.5	2.3	2.2	2.1	2.0	2.0
100 MESH	50	0.168	6.6	5.8	5.2	4.8	4.4	4.0	3.7	3.5	3.3	3.1	2.9	2.8	2.6	2.5	2.4	2.3	2.2
	60	0.184	7.2	6.4	5.7	5.2	4.8	4.4	4.1	3.8	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	2.4
	70	0.198	7.8	6.9	6.2	5.6	5.2	4.8	4.4	4.1	3.9	3.6	3.4	3.3	3.1	3.0	2.8	2.7	2.6
GREEN	80	0.212	8.3	7.4	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.2	3.0	2.9	2.8
	90	0.225	8.8	7.8	7.0	6.4	5.9	5.4	5.0	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.2	3.1	2.9
	100	0.237	9.3	8.2	7.4	6.7	6.2	5.7	5.3	4.9	4.6	4.4	4.1	3.9	3.7	3.5	3.4	3.2	3.1
AI8002VS AI11002VS	30	0.173	6.8	6.0	5.4	4.9	4.5	4.2	3.9	3.6	3.4	3.2	3.0	2.8	2.7	2.6	2.5	2.4	2.3
	40	0.200	7.8	6.9	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.8	2.7	2.6
50 MESH	50	0.224	8.7	7.8	7.0	6.4	5.8	5.4	5.0	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.2	3.0	2.9
	60	0.245	9.6	8.5	7.7	7.0	6.4	5.9	5.5	5.1	4.8	4.5	4.3	4.0	3.8	3.6	3.5	3.3	3.2
	70	0.265	10.3	9.2	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.4	4.1	3.9	3.8	3.6	3.4
YELLOW	80	0.283	11.1	9.8	8.8	8.0	7.4	6.8	6.3	5.9	5.5	5.2	4.9	4.7	4.4	4.2	4.0	3.8	3.7
	90	0.300	11.7	10.4	9.4	8.5	7.8	7.2	6.7	6.3	5.9	5.5	5.2	4.9	4.7	4.5	4.3	4.1	3.9
	100	0.316	12.4	11.0	9.9	9.0	8.2	7.6	7.1	6.6	6.2	5.8	5.5	5.2	4.9	4.7	4.5	4.3	4.1
AI80025VS AI110025VS	30	0.217	8.5	7.5	6.8	6.2	5.6	5.2	4.8	4.5	4.2	4.0	3.8	3.6	3.4	3.2	3.1	2.9	2.8
	40	0.250	9.8	8.7	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.3	4.1	3.9	3.7	3.6	3.4	3.3
50 MESH	50	0.280	10.9	9.7	8.7	7.9	7.3	6.7	6.2	5.8	5.5	5.1	4.9	4.6	4.4	4.2	4.0	3.8	3.6
	60	0.306	12.0	10.6	9.6	8.7	8.0	7.4	6.8	6.4	6.0	5.6	5.3	5.0	4.8	4.6	4.4	4.2	4.0
	70	0.331	12.9	11.5	10.3	9.4	8.6	8.0	7.4	6.9	6.5	6.1	5.7	5.4	5.2	4.9	4.7	4.5	4.3
PURPLE	80	0.354	13.8	12.3	11.1	10.0	9.2	8.5	7.9	7.4	6.9	6.5	6.1	5.8	5.5	5.3	5.0	4.8	4.6
	90	0.375	14.7	13.0	11.7	10.7	9.8	9.0	8.4	7.8	7.3	6.9	6.5	6.2	5.9	5.6	5.3	5.1	4.9
	100	0.395	15.4	13.7	12.4	11.2	10.3	9.5	8.8	8.2	7.7	7.3	6.9	6.5	6.2	5.9	5.6	5.4	5.1
AI8003VS AI11003VS	30	0.260	10.2	9.0	8.1	7.4	6.8	6.2	5.8	5.4	5.1	4.8	4.5	4.3	4.1	3.9	3.7	3.5	3.4
	40	0.300	11.7	10.4	9.4	8.5	7.8	7.2	6.7	6.3	5.9	5.5	5.2	4.9	4.7	4.5	4.3	4.1	3.9
50 MESH	50	0.335	13.1	11.7	10.5	9.5	8.7	8.1	7.5	7.0	6.6	6.2	5.8	5.5	5.2	5.0	4.8	4.6	4.4
	60	0.367	14.4	12.8	11.5	10.4	9.6	8.8	8.2	7.7	7.2	6.8	6.4	6.0	5.7	5.5	5.2	5.0	4.8
	70	0.397	15.5	13.8	12.4	11.3	10.3	9.5	8.9	8.3	7.8	7.3	6.9	6.5	6.2	5.9	5.6	5.4	5.2
BLUE	80	0.424	16.6	14.7	13.3	12.1	11.1	10.2	9.5	8.8	8.3	7.8	7.4	7.0	6.6	6.3	6.0	5.8	5.5
	90	0.450	17.6	15.6	14.1	12.8	11.7	10.8	10.0	9.4	8.8	8.3	7.8	7.4	7.0	6.7	6.4	6.1	5.9
	100	0.474	18.5	16.5	14.8	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.2	7.8	7.4	7.1	6.7	6.4	6.2
AI8004VS AI11004VS	30	0.346	13.5	12.0	10.8	9.8	9.0	8.3	7.7	7.2	6.8	6.4	6.0	5.7	5.4	5.2	4.9	4.7	4.5
	40	0.400	15.6	13.9	12.5	11.4	10.4	9.6	8.9	8.3	7.8	7.4	6.9	6.6	6.3	6.0	5.7	5.4	5.2
50 MESH	50	0.447	17.5	15.5	14.0	12.7	11.7	10.8	10.0	9.3	8.7	8.2	7.8	7.4	7.0	6.7	6.4	6.1	5.8
	60	0.490	19.1	17.0	15.3	13.9	12.8	11.8	10.9	10.2	9.6	9.0	8.5	8.1	7.7	7.3	7.0	6.7	6.4
	70	0.529	20.7	18.4	16.5	15.0	13.8	12.7	11.8	11.0	10.3	9.7	9.2	8.7	8.3	7.9	7.5	7.2	6.9
RED	80	0.566	22.1	19.7	17.7	16.1	14.7	13.6	12.6	11.8	11.1	10.4	9.8	9.3	8.8	8.4	8.0	7.7	7.4
	90	0.600	23.4	20.8	18.8	17.1	15.6	14.4	13.4	12.5	11.7	11.0	10.4	9.9	9.4	8.9	8.5	8.2	7.8
	100	0.632	24.7	22.0	19.8	18.0	16.5	15.2	14.1	13.2	12.4	11.6	11.0	10.4	9.9	9.4	9.0	8.6	8.2
AI8005VS AI11005VS	30	0.433	16.9	15.0	13.5	12.3	11.3	10.4	9.7	9.0	8.5	8.0	7.5	7.1	6.8	6.4	6.2	5.9	5.6
	40	0.500	19.5	17.4	15.6	14.2	13.0	12.0	11.2	10.4	9.8	9.2	8.7	8.2	7.8	7.4	7.1	6.8	6.5
50 MESH	50	0.559	21.8	19.4	17.5	15.9	14.6	13.4	12.5	11.7	10.9	10.3	9.7	9.2	8.7	8.3	7.9	7.6	7.3
	60	0.612	23.9	21.3	19.1	17.4	16.0	14.7	13.7	12.8	12.0	11.3	10.6	10.1	9.6	9.1	8.7	8.3	8.0
	70	0.661	25.8	23.0	20.7	18.8	17.2	15.9	14.8	13.8	12.9	12.2	11.5	10.9	10.3	9.8	9.4	9.0	8.6
BROWN	80	0.707	27.6	24.6	22.1	20.1	18.4	17.0	15.8	14.7	13.8	13.0	12.3	11.6	11.1	10.5	10.0	9.6	9.2
	90	0.750	29.3	26.1	23.4	21.3	19.5	18.0	16.7	15.6	14.7	13.8	13.0	12.3	11.7	11.2	10.7	10.2	9.8
	100	0.791	30.9	27.5	24.7	22.5	20.6	19.0	17.7	16.5	15.4	14.5	13.7	13.0	12.4	11.8	11.2	10.7	10.3
AI8006VS AI11006VS	30	0.520	20.3	18.0	16.2	14.8	13.5	12.5	11.6	10.8	10.2	9.6	9.0	8.5	8.1	7.7	7.4	7.1	6.8
	40	0.600	23.4	20.8	18.8	17.1	15.6	14.4	13.4	12.5	11.7	11.0	10.4	9.9	9.4	8.9	8.5	8.2	7.8
50 MESH	50	0.671	26.2	23.3	21.0	19.1	17.5	16.1	15.0	14.0	13.1	12.3	11.7	11.0	10.5	10.0	9.5	9.1	8.7
	60	0.735	28.7	25.5	23.0	20.9	19.1	17.7	16.4	15.3	14.4	13.5	12.8	12.1	11.5	10.9	10.4	10.0	9.6
	70	0.794	31.0	27.6	24.8	22.6	20.7	19.1	17.7	16.5	15.5	14.6	13.8	13.1	12.4	11.8	11.3	10.8	10.3

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mph		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	
GRAY	psi																		
	gpm																		
	80	0.849	33.2	29.5	26.5	24.1	22.1	20.4	18.9	17.7	16.6	15.6	14.7	14.0	13.3	12.6	12.1	11.5	11.1
	90	0.900	35.2	31.3	28.1	25.6	23.4	21.6	20.1	18.8	17.6	16.6	15.6	14.8	14.1	13.4	12.8	12.2	11.7
	100	0.949	37.1	33.0	29.7	27.0	24.7	22.8	21.2	19.8	18.5	17.4	16.5	15.6	14.8	14.1	13.5	12.9	12.4
AI8008VS	30	0.693	27.1	24.1	21.7	19.7	18.0	16.7	15.5	14.4	13.5	12.7	12.0	11.4	10.8	10.3	9.8	9.4	9.0
AI11008VS	40	0.800	31.3	27.8	25.0	22.7	20.8	19.2	17.9	16.7	15.6	14.7	13.9	13.2	12.5	11.9	11.4	10.9	10.4
50 MESH	50	0.894	35.0	31.1	28.0	25.4	23.3	21.5	20.0	18.6	17.5	16.4	15.5	14.7	14.0	13.3	12.7	12.2	11.7
	60	0.980	38.3	34.0	30.6	27.8	25.5	23.6	21.9	20.4	19.1	18.0	17.0	16.1	15.3	14.6	13.9	13.3	12.8
	70	1.058	41.4	36.8	33.1	30.1	27.6	25.5	23.6	22.1	20.7	19.5	18.4	17.4	16.5	15.8	15.0	14.4	13.8
	80	1.131	44.2	39.3	35.4	32.2	29.5	27.2	25.3	23.6	22.1	20.8	19.7	18.6	17.7	16.8	16.1	15.4	14.7
	90	1.200	46.9	41.7	37.5	34.1	31.3	28.9	26.8	25.0	23.4	22.1	20.8	19.7	18.8	17.9	17.1	16.3	15.6
WHITE	100	1.265	49.4	43.9	39.5	36.0	33.0	30.4	28.2	26.4	24.7	23.3	22.0	20.8	19.8	18.8	18.0	17.2	16.5

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12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	mph				
																gpm	psi			
1.6	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.130	30	AI80015VS AI110015VS		
1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	0.150	40			
2.1	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	0.168	50	100 MESH		
2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.4	0.184	60			
2.5	2.4	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6	0.198	70			
2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.7	1.7	0.212	80	GREEN		
2.8	2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.8	1.8	0.225	90			
3.0	2.9	2.7	2.6	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	0.237	100			
2.2	2.1	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	0.173	30	AI8002VS AI11002VS		
2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6	0.200	40			
2.8	2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.8	1.8	1.7	0.224	50	50 MESH		
3.1	2.9	2.8	2.7	2.6	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.1	2.0	2.0	1.9	0.245	60			
3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.2	2.1	2.1	0.265	70			
3.5	3.4	3.3	3.2	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.3	2.2	0.283	80	YELLOW		
3.8	3.6	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	2.4	2.3	0.300	90			
4.0	3.8	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.7	2.6	2.5	2.5	0.316	100			
2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.7	0.217	30	AI80025VS AI110025VS		
3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.0	2.0	0.250	40			
3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.2	0.280	50	50 MESH		
3.8	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.7	2.6	2.5	2.5	2.4	0.306	60			
4.1	4.0	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	3.0	2.9	2.8	2.7	2.7	2.6	0.331	70			
4.4	4.3	4.1	3.9	3.8	3.7	3.6	3.5	3.3	3.3	3.2	3.1	3.0	2.9	2.8	2.8	0.354	80	PURPLE		
4.7	4.5	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.3	3.2	3.1	3.0	2.9	0.375	90			
4.9	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.3	3.2	3.1	0.395	100			
3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.3	2.2	2.1	2.1	2.0	0.260	30	AI8003VS AI11003VS		
3.8	3.6	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	2.4	2.3	0.300	40			
4.2	4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	0.335	50	50 MESH		
4.6	4.4	4.3	4.1	4.0	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.9	0.367	60			
5.0	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.6	3.5	3.4	3.4	3.3	3.2	3.1	0.397	70			
5.3	5.1	4.9	4.7	4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	0.424	80	BLUE		
5.6	5.4	5.2	5.0	4.9	4.7	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	3.5	0.450	90			
5.9	5.7	5.5	5.3	5.1	4.9	4.8	4.6	4.5	4.4	4.2	4.1	4.0	3.9	3.8	3.7	0.474	100			
4.3	4.2	4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	0.346	30	AI8004VS AI11004VS		
5.0	4.8	4.6	4.5	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	0.400	40			
5.6	5.4	5.2	5.0	4.8	4.7	4.5	4.4	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	0.447	50	50 MESH		
6.1	5.9	5.7	5.5	5.3	5.1	4.9	4.8	4.6	4.5	4.4	4.3	4.1	4.0	3.9	3.8	0.490	60			
6.6	6.4	6.1	5.9	5.7	5.5	5.3	5.2	5.0	4.9	4.7	4.6	4.5	4.4	4.2	4.1	0.529	70			
7.1	6.8	6.6	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1	4.9	4.8	4.7	4.5	4.4	0.566	80	RED		
7.5	7.2	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1	4.9	4.8	4.7	0.600	90			
7.9	7.6	7.3	7.1	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.5	5.3	5.2	5.1	4.9	0.632	100			
5.4	5.2	5.0	4.8	4.7	4.5	4.4	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	0.433	30	AI8005VS AI11005VS		
6.3	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.7	4.6	4.5	4.3	4.2	4.1	4.0	3.9	0.500	40			
7.0	6.7	6.5	6.2	6.0	5.8	5.6	5.5	5.3	5.1	5.0	4.9	4.7	4.6	4.5	4.4	0.559	50	50 MESH		
7.7	7.4	7.1	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.5	5.3	5.2	5.0	4.9	4.8	0.612	60			
8.3	8.0	7.7	7.4	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.6	5.4	5.3	5.2	0.661	70			
8.8	8.5	8.2	7.9	7.6	7.4	7.1	6.9	6.7	6.5	6.3	6.1	6.0	5.8	5.7	5.5	0.707	80	BROWN		
9.4	9.0	8.7	8.4	8.1	7.8	7.6	7.3	7.1	6.9	6.7	6.5	6.3	6.2	6.0	5.9	0.750	90			
9.9	9.5	9.2	8.8	8.5	8.2	8.0	7.7	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.2	0.791	100			
6.5	6.2	6.0	5.8	5.6	5.4	5.2	5.1	4.9	4.8	4.6	4.5	4.4	4.3	4.2	4.1	0.520	30	AI8006VS AI11006VS		
7.5	7.2	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1	4.9	4.8	4.7	0.600	40			
8.4	8.1	7.8	7.5	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.8	5.7	5.5	5.4	5.2	0.671	50	50 MESH		
9.2	8.8	8.5	8.2	7.9	7.7	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.9	5.7	0.735	60			
9.9	9.5	9.2	8.9	8.6	8.3	8.0	7.8	7.5	7.3	7.1	6.9	6.7	6.5	6.4	6.2	0.794	70			

