

AI 80°/110° 36" 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	5.4	4.8	4.3	3.9	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.3	2.1	2.0	1.9	1.9	1.8
	40	0.150	6.2	5.5	5.0	4.5	4.1	3.8	3.5	3.3	3.1	2.9	2.8	2.6	2.5	2.4	2.3	2.2	2.1
100 MESH	50	0.168	6.9	6.1	5.5	5.0	4.6	4.3	4.0	3.7	3.5	3.3	3.1	2.9	2.8	2.6	2.5	2.4	2.3
	60	0.184	7.6	6.7	6.1	5.5	5.1	4.7	4.3	4.0	3.8	3.6	3.4	3.2	3.0	2.9	2.8	2.6	2.5
	70	0.198	8.2	7.3	6.5	6.0	5.5	5.0	4.7	4.4	4.1	3.9	3.6	3.4	3.3	3.1	3.0	2.8	2.7
GREEN	80	0.212	8.8	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
	90	0.225	9.3	8.3	7.4	6.8	6.2	5.7	5.3	5.0	4.6	4.4	4.1	3.9	3.7	3.5	3.4	3.2	3.1
	100	0.237	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
AI8002VS AI11002VS	30	0.173	7.1	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
	40	0.200	8.3	7.3	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.1	3.0	2.9	2.8
50 MESH	50	0.224	9.2	8.2	7.4	6.7	6.1	5.7	5.3	4.9	4.6	4.3	4.1	3.9	3.7	3.5	3.4	3.2	3.1
	60	0.245	10.1	9.0	8.1	7.3	6.7	6.2	5.8	5.4	5.1	4.8	4.5	4.3	4.0	3.8	3.7	3.5	3.4
	70	0.265	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
YELLOW	80	0.283	11.7	10.4	9.3	8.5	7.8	7.2	6.7	6.2	5.8	5.5	5.2	4.9	4.7	4.4	4.2	4.1	3.9
	90	0.300	12.4	11.0	9.9	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.5	5.2	5.0	4.7	4.5	4.3	4.1
	100	0.316	13.0	11.6	10.4	9.5	8.7	8.0	7.5	7.0	6.5	6.1	5.8	5.5	5.2	5.0	4.7	4.5	4.3
AI80025VS AI110025VS	30	0.217	8.9	7.9	7.1	6.5	6.0	5.5	5.1	4.8	4.5	4.2	4.0	3.8	3.6	3.4	3.2	3.1	3.0
	40	0.250	10.3	9.2	8.3	7.5	6.9	6.3	5.9	5.5	5.2	4.9	4.6	4.3	4.1	3.9	3.8	3.6	3.4
50 MESH	50	0.280	11.5	10.2	9.2	8.4	7.7	7.1	6.6	6.1	5.8	5.4	5.1	4.9	4.6	4.4	4.2	4.0	3.8
	60	0.306	12.6	11.2	10.1	9.2	8.4	7.8	7.2	6.7	6.3	5.9	5.6	5.3	5.1	4.8	4.6	4.4	4.2
	70	0.331	13.6	12.1	10.9	9.9	9.1	8.4	7.8	7.3	6.8	6.4	6.1	5.7	5.5	5.2	5.0	4.7	4.5
PURPLE	80	0.354	14.6	13.0	11.7	10.6	9.7	9.0	8.3	7.8	7.3	6.9	6.5	6.1	5.8	5.6	5.3	5.1	4.9
	90	0.375	15.5	13.8	12.4	11.3	10.3	9.5	8.8	8.3	7.7	7.3	6.9	6.5	6.2	5.9	5.6	5.4	5.2
	100	0.395	16.3	14.5	13.0	11.9	10.9	10.0	9.3	8.7	8.2	7.7	7.2	6.9	6.5	6.2	5.9	5.7	5.4
AI8003VS AI11003VS	30	0.260	10.7	9.5	8.6	7.8	7.1	6.6	6.1	5.7	5.4	5.0	4.8	4.5	4.3	4.1	3.9	3.7	3.6
	40	0.300	12.4	11.0	9.9	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.5	5.2	5.0	4.7	4.5	4.3	4.1
50 MESH	50	0.335	13.8	12.3	11.1	10.1	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
	60	0.367	15.2	13.5	12.1	11.0	10.1	9.3	8.7	8.1	7.6	7.1	6.7	6.4	6.1	5.8	5.5	5.3	5.1
	70	0.397	16.4	14.6	13.1	11.9	10.9	10.1	9.4	8.7	8.2	7.7	7.3	6.9	6.5	6.2	6.0	5.7	5.5
BLUE	80	0.424	17.5	15.6	14.0	12.7	11.7	10.8	10.0	9.3	8.8	8.2	7.8	7.4	7.0	6.7	6.4	6.1	5.8
	90	0.450	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.8	7.4	7.1	6.8	6.5	6.2
	100	0.474	19.6	17.4	15.7	14.2	13.0	12.0	11.2	10.4	9.8	9.2	8.7	8.2	7.8	7.5	7.1	6.8	6.5
AI8004VS AI11004VS	30	0.346	14.3	12.7	11.4	10.4	9.5	8.8	8.2	7.6	7.1	6.7	6.4	6.0	5.7	5.4	5.2	5.0	4.8
	40	0.400	16.5	14.7	13.2	12.0	11.0	10.2	9.4	8.8	8.3	7.8	7.3	6.9	6.6	6.3	6.0	5.7	5.5
50 MESH	50	0.447	18.4	16.4	14.8	13.4	12.3	11.4	10.5	9.8	9.2	8.7	8.2	7.8	7.4	7.0	6.7	6.4	6.1
	60	0.490	20.2	18.0	16.2	14.7	13.5	12.4	11.5	10.8	10.1	9.5	9.0	8.5	8.1	7.7	7.3	7.0	6.7
	70	0.529	21.8	19.4	17.5	15.9	14.6	13.4	12.5	11.6	10.9	10.3	9.7	9.2	8.7	8.3	7.9	7.6	7.3
RED	80	0.566	23.3	20.7	18.7	17.0	15.6	14.4	13.3	12.4	11.7	11.0	10.4	9.8	9.3	8.9	8.5	8.1	7.8
	90	0.600	24.8	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	8.3
	100	0.632	26.1	23.2	20.9	19.0	17.4	16.1	14.9	13.9	13.0	12.3	11.6	11.0	10.4	9.9	9.5	9.1	8.7
AI8005VS AI11005VS	30	0.433	17.9	15.9	14.3	13.0	11.9	11.0	10.2	9.5	8.9	8.4	7.9	7.5	7.1	6.8	6.5	6.2	6.0
	40	0.500	20.6	18.3	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
50 MESH	50	0.559	23.1	20.5	18.4	16.8	15.4	14.2	13.2	12.3	11.5	10.9	10.2	9.7	9.2	8.8	8.4	8.0	7.7
	60	0.612	25.3	22.5	20.2	18.4	16.8	15.5	14.4	13.5	12.6	11.9	11.2	10.6	10.1	9.6	9.2	8.8	8.4
	70	0.661	27.3	24.3	21.8	19.8	18.2	16.8	15.6	14.6	13.6	12.8	12.1	11.5	10.9	10.4	9.9	9.5	9.1
BROWN	80	0.707	29.2	25.9	23.3	21.2	19.4	17.9	16.7	15.6	14.6	13.7	13.0	12.3	11.7	11.1	10.6	10.1	9.7
	90	0.750	30.9	27.5	24.8	22.5	20.6	19.0	17.7	16.5	15.5	14.6	13.8	13.0	12.4	11.8	11.3	10.8	10.3
	100	0.791	32.6	29.0	26.1	23.7	21.7	20.1	18.6	17.4	16.3	15.3	14.5	13.7	13.0	12.4	11.9	11.3	10.9
AI8006VS AI11006VS	30	0.520	21.4	19.1	17.1	15.6	14.3	13.2	12.2	11.4	10.7	10.1	9.5	9.0	8.6	8.2	7.8	7.5	7.1
	40	0.600	24.8	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	8.3
50 MESH	50	0.671	27.7	24.6	22.1	20.1	18.4	17.0	15.8	14.8	13.8	13.0	12.3	11.7	11.1	10.5	10.1	9.6	9.2
	60	0.735	30.3	26.9	24.2	22.0	20.2	18.7	17.3	16.2	15.2	14.3	13.5	12.8	12.1	11.5	11.0	10.5	10.1
	70	0.794	32.7	29.1	26.2	23.8	21.8	20.1	18.7	17.5	16.4	15.4	14.6	13.8	13.1	12.5	11.9	11.4	10.9

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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	35.0	31.1	28.0	25.5	23.3	21.5	20.0	18.7	17.5	16.5	15.6	14.7	14.0	13.3	12.7	12.2	11.7
	90	0.900	37.1	33.0	29.7	27.0	24.8	22.8	21.2	19.8	18.6	17.5	16.5	15.6	14.9	14.1	13.5	12.9	12.4
	100	0.949	39.1	34.8	31.3	28.5	26.1	24.1	22.4	20.9	19.6	18.4	17.4	16.5	15.7	14.9	14.2	13.6	13.0
AI8008VS	30	0.693	28.6	25.4	22.9	20.8	19.1	17.6	16.3	15.2	14.3	13.4	12.7	12.0	11.4	10.9	10.4	9.9	9.5
AI11008VS	40	0.800	33.0	29.3	26.4	24.0	22.0	20.3	18.9	17.6	16.5	15.5	14.7	13.9	13.2	12.6	12.0	11.5	11.0
50 MESH	50	0.894	36.9	32.8	29.5	26.8	24.6	22.7	21.1	19.7	18.4	17.4	16.4	15.5	14.8	14.1	13.4	12.8	12.3
	60	0.980	40.4	35.9	32.3	29.4	26.9	24.9	23.1	21.6	20.2	19.0	18.0	17.0	16.2	15.4	14.7	14.1	13.5
	70	1.058	43.7	38.8	34.9	31.7	29.1	26.9	24.9	23.3	21.8	20.5	19.4	18.4	17.5	16.6	15.9	15.2	14.6
	80	1.131	46.7	41.5	37.3	33.9	31.1	28.7	26.7	24.9	23.3	22.0	20.7	19.7	18.7	17.8	17.0	16.2	15.6
	90	1.200	49.5	44.0	39.6	36.0	33.0	30.5	28.3	26.4	24.8	23.3	22.0	20.8	19.8	18.9	18.0	17.2	16.5
WHITE	100	1.265	52.2	46.4	41.7	37.9	34.8	32.1	29.8	27.8	26.1	24.6	23.2	22.0	20.9	19.9	19.0	18.1	17.4

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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		
1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	0.130	30	AI80015VS AI110015VS	
2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	0.150	40		
2.2	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	0.168	50	100 MESH	
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	1.5	0.184	60		
2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.6	0.198	70	GREEN	
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	1.8	0.212	80		
3.0	2.9	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	0.225	90		
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	0.237	100		
2.3	2.2	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	0.173	30	AI8002VS AI11002VS	
2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	0.200	40		
3.0	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.8	0.224	50	50 MESH	
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	2.0	0.245	60		
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	0.265	70	YELLOW	
3.7	3.6	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	0.283	80		
4.0	3.8	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	0.300	90		
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	2.7	2.7	2.6	0.316	100		
2.9	2.7	2.6	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.8	0.217	30	AI80025VS AI110025VS	
3.3	3.2	3.1	2.9	2.8	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.2	2.1	2.1	0.250	40		
3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	0.280	50	50 MESH	
4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.7	2.6	2.5	0.306	60		
4.4	4.2	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.9	2.8	2.7	0.331	70	PURPLE	
4.7	4.5	4.3	4.2	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.0	2.9	0.354	80		
5.0	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.3	3.2	3.1	0.375	90		
5.2	5.0	4.8	4.7	4.5	4.3	4.2	4.1	4.0	3.8	3.7	3.6	3.5	3.4	3.3	3.3	0.395	100		
3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.3	2.2	2.1	0.260	30	AI8003VS AI11003VS	
4.0	3.8	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	0.300	40		
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	2.8	2.8	0.335	50	50 MESH	
4.8	4.7	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	3.0	0.367	60		
5.2	5.0	4.9	4.7	4.5	4.4	4.2	4.1	4.0	3.9	3.7	3.6	3.5	3.4	3.4	3.3	0.397	70	BLUE	
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	0.424	80		
5.9	5.7	5.5	5.3	5.1	5.0	4.8	4.6	4.5	4.4	4.2	4.1	4.0	3.9	3.8	3.7	0.450	90		
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	0.474	100		
4.6	4.4	4.2	4.1	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.9	0.346	30	AI8004VS AI11004VS	
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	0.400	40		
5.9	5.7	5.5	5.3	5.1	4.9	4.8	4.6	4.5	4.3	4.2	4.1	4.0	3.9	3.8	3.7	0.447	50	50 MESH	
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	4.1	4.0	0.490	60		
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	0.529	70	RED	
7.5	7.2	6.9	6.7	6.4	6.2	6.0	5.8	5.7	5.5	5.3	5.2	5.0	4.9	4.8	4.7	0.566	80		
7.9	7.6	7.3	7.1	6.8	6.6	6.4	6.2	6.0	5.8	5.7	5.5	5.4	5.2	5.1	5.0	0.600	90		
8.3	8.0	7.7	7.5	7.2	7.0	6.7	6.5	6.3	6.1	6.0	5.8	5.6	5.5	5.4	5.2	0.632	100		
5.7	5.5	5.3	5.1	4.9	4.8	4.6	4.5	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	0.433	30	AI8005VS AI11005VS	
6.6	6.3	6.1	5.9	5.7	5.5	5.3	5.2	5.0	4.9	4.7	4.6	4.5	4.3	4.2	4.1	0.500	40		
7.4	7.1	6.8	6.6	6.4	6.1	6.0	5.8	5.6	5.4	5.3	5.1	5.0	4.9	4.7	4.6	0.559	50	50 MESH	
8.1	7.8	7.5	7.2	7.0	6.7	6.5	6.3	6.1	5.9	5.8	5.6	5.5	5.3	5.2	5.1	0.612	60		
8.7	8.4	8.1	7.8	7.5	7.3	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.7	5.6	5.5	0.661	70	BROWN	
9.3	9.0	8.6	8.3	8.0	7.8	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	6.0	5.8	0.707	80		
9.9	9.5	9.2	8.8	8.5	8.3	8.0	7.7	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.2	0.750	90		
10.4	10.0	9.7	9.3	9.0	8.7	8.4	8.2	7.9	7.7	7.5	7.2	7.1	6.9	6.7	6.5	0.791	100		
6.9	6.6	6.4	6.1	5.9	5.7	5.5	5.4	5.2	5.0	4.9	4.8	4.6	4.5	4.4	4.3	0.520	30	AI8006VS AI11006VS	
7.9	7.6	7.3	7.1	6.8	6.6	6.4	6.2	6.0	5.8	5.7	5.5	5.4	5.2	5.1	5.0	0.600	40		
8.9	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	0.671	50	50 MESH	
9.7	9.3	9.0	8.7	8.4	8.1	7.8	7.6	7.3	7.1	6.9	6.7	6.6	6.4	6.2	6.1	0.735	60		
10.5	10.1	9.7	9.4	9.0	8.7	8.4	8.2	7.9	7.7	7.5	7.3	7.1	6.9	6.7	6.5	0.794	70		

AI 80°/110° 36" TIP SPACING

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

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
11.2	10.8	10.4	10.0	9.7	9.3	9.0	8.8	8.5	8.2	8.0	7.8	7.6	7.4	7.2	7.0	0.849	80	
11.9	11.4	11.0	10.6	10.2	9.9	9.6	9.3	9.0	8.7	8.5	8.3	8.0	7.8	7.6	7.4	0.900	90	
12.5	12.0	11.6	11.2	10.8	10.4	10.1	9.8	9.5	9.2	8.9	8.7	8.5	8.2	8.0	7.8	0.949	100	
GRAY																		
9.1	8.8	8.5	8.2	7.9	7.6	7.4	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.9	5.7	0.693	30	
10.6	10.2	9.8	9.4	9.1	8.8	8.5	8.3	8.0	7.8	7.5	7.3	7.1	6.9	6.8	6.6	0.800	40	
11.8	11.4	10.9	10.5	10.2	9.8	9.5	9.2	8.9	8.7	8.4	8.2	8.0	7.8	7.6	7.4	0.894	50	
12.9	12.4	12.0	11.5	11.1	10.8	10.4	10.1	9.8	9.5	9.2	9.0	8.7	8.5	8.3	8.1	0.980	60	
14.0	13.4	12.9	12.5	12.0	11.6	11.3	10.9	10.6	10.3	10.0	9.7	9.4	9.2	9.0	8.7	1.058	70	
14.9	14.4	13.8	13.3	12.9	12.4	12.0	11.7	11.3	11.0	10.7	10.4	10.1	9.8	9.6	9.3	1.131	80	
15.8	15.2	14.7	14.1	13.7	13.2	12.8	12.4	12.0	11.6	11.3	11.0	10.7	10.4	10.2	9.9	1.200	90	
16.7	16.1	15.5	14.9	14.4	13.9	13.5	13.0	12.6	12.3	11.9	11.6	11.3	11.0	10.7	10.4	1.265	100	
WHITE																		