

AI 80°/110° 19" 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	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	0.150	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	0.168	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
100 MESH	60	0.184	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	0.198	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
	80	0.212	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	0.225	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
GREEN	100	0.237	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
AI8002VS AI11002VS	30	0.173	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	0.200	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	0.224	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
50 MESH	60	0.245	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	0.265	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
	80	0.283	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
YELLOW	90	0.300	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	0.316	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
AI80025VS AI110025VS	30	0.217	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	0.250	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	0.280	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
50 MESH	60	0.306	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	0.331	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
	80	0.354	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	0.375	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
PURPLE	100	0.395	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
AI8003VS AI11003VS	30	0.260	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	0.300	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	0.335	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
50 MESH	60	0.367	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	0.397	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
	80	0.424	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	0.450	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
BLUE	100	0.474	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
AI8004VS AI11004VS	30	0.346	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
	40	0.400	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	0.447	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
50 MESH	60	0.490	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	0.529	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	0.566	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	0.600	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
RED	100	0.632	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
AI8005VS AI11005VS	30	0.433	33.8	30.1	27.1	24.6	22.6	20.8	19.3	18.0	16.9	15.9	15.0	14.2	13.5	12.9	12.3	11.8	11.3
	40	0.500	39.1	34.7	31.3	28.4	26.1	24.0	22.3	20.8	19.5	18.4	17.4	16.5	15.6	14.9	14.2	13.6	13.0
	50	0.559	43.7	38.8	35.0	31.8	29.1	26.9	25.0	23.3	21.8	20.6	19.4	18.4	17.5	16.6	15.9	15.2	14.6
50 MESH	60	0.612	47.9	42.5	38.3	34.8	31.9	29.5	27.3	25.5	23.9	22.5	21.3	20.2	19.1	18.2	17.4	16.6	16.0
	70	0.661	51.7	46.0	41.4	37.6	34.5	31.8	29.5	27.6	25.8	24.3	23.0	21.8	20.7	19.7	18.8	18.0	17.2
	80	0.707	55.3	49.1	44.2	40.2	36.8	34.0	31.6	29.5	27.6	26.0	24.6	23.3	22.1	21.1	20.1	19.2	18.4
	90	0.750	58.6	52.1	46.9	42.6	39.1	36.1	33.5	31.3	29.3	27.6	26.1	24.7	23.4	22.3	21.3	20.4	19.5
BROWN	100	0.791	61.8	54.9	49.4	44.9	41.2	38.0	35.3	33.0	30.9	29.1	27.5	26.0	24.7	23.5	22.5	21.5	20.6
AI8006VS AI11006VS	30	0.520	40.6	36.1	32.5	29.5	27.1	25.0	23.2	21.7	20.3	19.1	18.0	17.1	16.2	15.5	14.8	14.1	13.5
	40	0.600	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
	50	0.671	52.4	46.6	41.9	38.1	35.0	32.3	30.0	28.0	26.2	24.7	23.3	22.1	21.0	20.0	19.1	18.2	17.5
50 MESH	60	0.735	57.4	51.1	45.9	41.8	38.3	35.3	32.8	30.6	28.7	27.0	25.5	24.2	23.0	21.9	20.9	20.0	19.1
	70	0.794	62.0	55.1	49.6	45.1	41.4	38.2	35.4	33.1	31.0	29.2	27.6	26.1	24.8	23.6	22.6	21.6	20.7

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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	66.3	59.0	53.1	48.2	44.2	40.8	37.9	35.4	33.2	31.2	29.5	27.9	26.5	25.3	24.1	23.1	22.1
	90	0.900	70.3	62.5	56.3	51.2	46.9	43.3	40.2	37.5	35.2	33.1	31.3	29.6	28.1	26.8	25.6	24.5	23.4
	100	0.949	74.1	65.9	59.3	53.9	49.4	45.6	42.4	39.5	37.1	34.9	33.0	31.2	29.7	28.2	27.0	25.8	24.7
AI8008VS	30	0.693	54.1	48.1	43.3	39.4	36.1	33.3	30.9	28.9	27.1	25.5	24.1	22.8	21.7	20.6	19.7	18.8	18.0
AI11008VS	40	0.800	62.5	55.6	50.0	45.5	41.7	38.5	35.7	33.3	31.3	29.4	27.8	26.3	25.0	23.8	22.7	21.7	20.8
50 MESH	50	0.894	69.9	62.1	55.9	50.8	46.6	43.0	39.9	37.3	35.0	32.9	31.1	29.4	28.0	26.6	25.4	24.3	23.3
	60	0.980	76.6	68.1	61.3	55.7	51.1	47.1	43.8	40.8	38.3	36.0	34.0	32.2	30.6	29.2	27.8	26.6	25.5
	70	1.058	82.7	73.5	66.2	60.2	55.1	50.9	47.3	44.1	41.4	38.9	36.8	34.8	33.1	31.5	30.1	28.8	27.6
	80	1.131	88.4	78.6	70.7	64.3	59.0	54.4	50.5	47.2	44.2	41.6	39.3	37.2	35.4	33.7	32.2	30.8	29.5
	90	1.200	93.8	83.4	75.0	68.2	62.5	57.7	53.6	50.0	46.9	44.1	41.7	39.5	37.5	35.7	34.1	32.6	31.3
WHITE	100	1.265	98.9	87.9	79.1	71.9	65.9	60.8	56.5	52.7	49.4	46.5	43.9	41.6	39.5	37.7	36.0	34.4	33.0

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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		
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	0.130	30	AI80015VS		
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	0.150	40	AI110015VS		
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	0.168	50			
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	0.184	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	0.198	70	100 MESH		
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	0.212	80			
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	0.225	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	0.237	100	GREEN		
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	0.173	30	AI8002VS		
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	0.200	40	AI11002VS		
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	0.224	50			
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	0.245	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	0.265	70	50 MESH		
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	0.283	80			
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	0.300	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	0.316	100	YELLOW		
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	0.217	30	AI80025VS		
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	0.250	40	AI110025VS		
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	0.280	50			
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	0.306	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	0.331	70	50 MESH		
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	0.354	80			
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	0.375	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	0.395	100	PURPLE		
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	0.260	30	AI8003VS		
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	0.300	40	AI11003VS		
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	0.335	50			
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	0.367	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	0.397	70	50 MESH		
10.6	10.2	9.8	9.5	9.1	8.8	8.6	8.3	8.0	7.8	7.6	7.4	7.2	7.0	6.8	6.6	0.424	80			
11.3	10.8	10.4	10.0	9.7	9.4	9.1	8.8	8.5	8.3	8.0	7.8	7.6	7.4	7.2	7.0	0.450	90			
11.9	11.4	11.0	10.6	10.2	9.9	9.6	9.3	9.0	8.7	8.5	8.2	8.0	7.8	7.6	7.4	0.474	100	BLUE		
8.7	8.3	8.0	7.7	7.5	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.9	5.7	5.6	5.4	0.346	30	AI8004VS		
10.0	9.6	9.3	8.9	8.6	8.3	8.1	7.8	7.6	7.4	7.1	6.9	6.8	6.6	6.4	6.3	0.400	40	AI11004VS		
11.2	10.8	10.4	10.0	9.6	9.3	9.0	8.7	8.5	8.2	8.0	7.8	7.6	7.4	7.2	7.0	0.447	50			
12.3	11.8	11.3	10.9	10.6	10.2	9.9	9.6	9.3	9.0	8.8	8.5	8.3	8.1	7.9	7.7	0.490	60			
13.2	12.7	12.3	11.8	11.4	11.0	10.7	10.3	10.0	9.7	9.5	9.2	8.9	8.7	8.5	8.3	0.529	70	50 MESH		
14.1	13.6	13.1	12.6	12.2	11.8	11.4	11.1	10.7	10.4	10.1	9.8	9.6	9.3	9.1	8.8	0.566	80			
15.0	14.4	13.9	13.4	12.9	12.5	12.1	11.7	11.4	11.0	10.7	10.4	10.1	9.9	9.6	9.4	0.600	90			
15.8	15.2	14.6	14.1	13.6	13.2	12.8	12.4	12.0	11.6	11.3	11.0	10.7	10.4	10.1	9.9	0.632	100	RED		
10.8	10.4	10.0	9.7	9.3	9.0	8.7	8.5	8.2	8.0	7.7	7.5	7.3	7.1	6.9	6.8	0.433	30	AI8005VS		
12.5	12.0	11.6	11.2	10.8	10.4	10.1	9.8	9.5	9.2	8.9	8.7	8.4	8.2	8.0	7.8	0.500	40	AI11005VS		
14.0	13.4	12.9	12.5	12.1	11.7	11.3	10.9	10.6	10.3	10.0	9.7	9.4	9.2	9.0	8.7	0.559	50			
15.3	14.7	14.2	13.7	13.2	12.8	12.4	12.0	11.6	11.3	10.9	10.6	10.3	10.1	9.8	9.6	0.612	60			
16.5	15.9	15.3	14.8	14.3	13.8	13.3	12.9	12.5	12.2	11.8	11.5	11.2	10.9	10.6	10.3	0.661	70	50 MESH		
17.7	17.0	16.4	15.8	15.2	14.7	14.3	13.8	13.4	13.0	12.6	12.3	11.9	11.6	11.3	11.1	0.707	80			
18.8	18.0	17.4	16.7	16.2	15.6	15.1	14.7	14.2	13.8	13.4	13.0	12.7	12.3	12.0	11.7	0.750	90			
19.8	19.0	18.3	17.7	17.0	16.5	15.9	15.4	15.0	14.5	14.1	13.7	13.4	13.0	12.7	12.4	0.791	100	BROWN		
13.0	12.5	12.0	11.6	11.2	10.8	10.5	10.2	9.8	9.6	9.3	9.0	8.8	8.5	8.3	8.1	0.520	30	AI8006VS		
15.0	14.4	13.9	13.4	12.9	12.5	12.1	11.7	11.4	11.0	10.7	10.4	10.1	9.9	9.6	9.4	0.600	40	AI11006VS		
16.8	16.1	15.5	15.0	14.5	14.0	13.5	13.1	12.7	12.3	12.0	11.7	11.3	11.0	10.8	10.5	0.671	50			
18.4	17.7	17.0	16.4	15.8	15.3	14.8	14.4	13.9	13.5	13.1	12.8	12.4	12.1	11.8	11.5	0.735	60			
19.9	19.1	18.4	17.7	17.1	16.5	16.0	15.5	15.0	14.6	14.2	13.8	13.4	13.1	12.7	12.4	0.794	70	50 MESH		

