

**AI 80°/110° 18" 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	10.7	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	0.150	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	0.168	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	0.184	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	0.198	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
	80	0.212	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	0.225	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
GREEN	100	0.237	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
AI8002VS AI11002VS	30	0.173	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	0.200	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	0.224	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	0.245	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	0.265	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
	80	0.283	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	0.300	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
YELLOW	100	0.316	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
AI80025VS AI110025VS	30	0.217	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	0.250	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	0.280	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	0.306	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	0.331	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
	80	0.354	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	0.375	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
PURPLE	100	0.395	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
AI8003VS AI11003VS	30	0.260	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	0.300	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	0.335	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	0.367	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	0.397	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
	80	0.424	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	0.450	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
BLUE	100	0.474	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
AI8004VS AI11004VS	30	0.346	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
	40	0.400	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	0.447	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	0.490	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	0.529	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	0.566	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	0.600	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
RED	100	0.632	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
AI8005VS AI11005VS	30	0.433	35.7	31.8	28.6	26.0	23.8	22.0	20.4	19.1	17.9	16.8	15.9	15.0	14.3	13.6	13.0	12.4	11.9
	40	0.500	41.3	36.7	33.0	30.0	27.5	25.4	23.6	22.0	20.6	19.4	18.3	17.4	16.5	15.7	15.0	14.3	13.8
	50	0.559	46.1	41.0	36.9	33.5	30.7	28.4	26.4	24.6	23.1	21.7	20.5	19.4	18.4	17.6	16.8	16.0	15.4
	60	0.612	50.5	44.9	40.4	36.7	33.7	31.1	28.9	26.9	25.3	23.8	22.5	21.3	20.2	19.2	18.4	17.6	16.8
	70	0.661	54.6	48.5	43.7	39.7	36.4	33.6	31.2	29.1	27.3	25.7	24.3	23.0	21.8	20.8	19.8	19.0	18.2
	80	0.707	58.3	51.9	46.7	42.4	38.9	35.9	33.3	31.1	29.2	27.5	25.9	24.6	23.3	22.2	21.2	20.3	19.4
	90	0.750	61.9	55.0	49.5	45.0	41.3	38.1	35.4	33.0	30.9	29.1	27.5	26.1	24.8	23.6	22.5	21.5	20.6
BROWN	100	0.791	65.2	58.0	52.2	47.4	43.5	40.1	37.3	34.8	32.6	30.7	29.0	27.5	26.1	24.8	23.7	22.7	21.7
AI8006VS AI11006VS	30	0.520	42.9	38.1	34.3	31.2	28.6	26.4	24.5	22.9	21.4	20.2	19.1	18.0	17.1	16.3	15.6	14.9	14.3
	40	0.600	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
	50	0.671	55.3	49.2	44.3	40.2	36.9	34.1	31.6	29.5	27.7	26.0	24.6	23.3	22.1	21.1	20.1	19.2	18.4
	60	0.735	60.6	53.9	48.5	44.1	40.4	37.3	34.6	32.3	30.3	28.5	26.9	25.5	24.2	23.1	22.0	21.1	20.2
	70	0.794	65.5	58.2	52.4	47.6	43.7	40.3	37.4	34.9	32.7	30.8	29.1	27.6	26.2	24.9	23.8	22.8	21.8

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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	
GRAY	psi																		
	gpm																		
	80	0.849	70.0	62.2	56.0	50.9	46.7	43.1	40.0	37.3	35.0	32.9	31.1	29.5	28.0	26.7	25.5	24.3	23.3
	90	0.900	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	31.3	29.7	28.3	27.0	25.8	24.8
	100	0.949	78.3	69.6	62.6	56.9	52.2	48.2	44.7	41.7	39.1	36.8	34.8	33.0	31.3	29.8	28.5	27.2	26.1
AI8008VS	30	0.693	57.2	50.8	45.7	41.6	38.1	35.2	32.7	30.5	28.6	26.9	25.4	24.1	22.9	21.8	20.8	19.9	19.1
AI11008VS	40	0.800	66.0	58.7	52.8	48.0	44.0	40.6	37.7	35.2	33.0	31.1	29.3	27.8	26.4	25.1	24.0	23.0	22.0
50 MESH	50	0.894	73.8	65.6	59.0	53.7	49.2	45.4	42.2	39.4	36.9	34.7	32.8	31.1	29.5	28.1	26.8	25.7	24.6
	60	0.980	80.8	71.9	64.7	58.8	53.9	49.7	46.2	43.1	40.4	38.0	35.9	34.0	32.3	30.8	29.4	28.1	26.9
	70	1.058	87.3	77.6	69.8	63.5	58.2	53.7	49.9	46.6	43.7	41.1	38.8	36.8	34.9	33.3	31.7	30.4	29.1
	80	1.131	93.3	83.0	74.7	67.9	62.2	57.4	53.3	49.8	46.7	43.9	41.5	39.3	37.3	35.6	33.9	32.5	31.1
	90	1.200	99.0	88.0	79.2	72.0	66.0	60.9	56.6	52.8	49.5	46.6	44.0	41.7	39.6	37.7	36.0	34.4	33.0
WHITE	100	1.265	###	92.8	83.5	75.9	69.6	64.2	59.6	55.7	52.2	49.1	46.4	43.9	41.7	39.8	37.9	36.3	34.8

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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		
3.4	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	0.130	30	AI80015VS	
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	0.150	40	AI110015VS	
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	0.168	50		
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	0.184	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	0.198	70	100 MESH	
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	0.212	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	0.225	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	0.237	100	GREEN	
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	0.173	30	AI8002VS	
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	0.200	40	AI11002VS	
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	0.224	50		
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	0.245	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	0.265	70	50 MESH	
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	0.283	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	0.300	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	0.316	100	YELLOW	
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	0.217	30	AI80025VS	
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	0.250	40	AI110025VS	
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	0.280	50		
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	0.306	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	0.331	70	50 MESH	
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	0.354	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	0.375	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	0.395	100	PURPLE	
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	0.260	30	AI8003VS	
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	0.300	40	AI11003VS	
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	0.335	50		
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	0.367	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	0.397	70	50 MESH	
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	0.424	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	0.450	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	0.474	100	BLUE	
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	0.346	30	AI8004VS	
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	0.400	40	AI11004VS	
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	0.447	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	0.490	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	0.529	70	50 MESH	
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	0.566	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	0.600	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	0.632	100	RED	
11.4	11.0	10.6	10.2	9.9	9.5	9.2	8.9	8.7	8.4	8.2	7.9	7.7	7.5	7.3	7.1	0.433	30	AI8005VS	
13.2	12.7	12.2	11.8	11.4	11.0	10.6	10.3	10.0	9.7	9.4	9.2	8.9	8.7	8.5	8.3	0.500	40	AI11005VS	
14.8	14.2	13.7	13.2	12.7	12.3	11.9	11.5	11.2	10.9	10.5	10.2	10.0	9.7	9.5	9.2	0.559	50		
16.2	15.5	15.0	14.4	13.9	13.5	13.0	12.6	12.2	11.9	11.5	11.2	10.9	10.6	10.4	10.1	0.612	60		
17.5	16.8	16.2	15.6	15.1	14.6	14.1	13.6	13.2	12.8	12.5	12.1	11.8	11.5	11.2	10.9	0.661	70	50 MESH	
18.7	17.9	17.3	16.7	16.1	15.6	15.1	14.6	14.1	13.7	13.3	13.0	12.6	12.3	12.0	11.7	0.707	80		
19.8	19.0	18.3	17.7	17.1	16.5	16.0	15.5	15.0	14.6	14.1	13.8	13.4	13.0	12.7	12.4	0.750	90		
20.9	20.1	19.3	18.6	18.0	17.4	16.8	16.3	15.8	15.3	14.9	14.5	14.1	13.7	13.4	13.0	0.791	100	BROWN	
13.7	13.2	12.7	12.2	11.8	11.4	11.1	10.7	10.4	10.1	9.8	9.5	9.3	9.0	8.8	8.6	0.520	30	AI8006VS	
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	0.600	40	AI11006VS	
17.7	17.0	16.4	15.8	15.3	14.8	14.3	13.8	13.4	13.0	12.6	12.3	12.0	11.7	11.4	11.1	0.671	50		
19.4	18.7	18.0	17.3	16.7	16.2	15.6	15.2	14.7	14.3	13.9	13.5	13.1	12.8	12.4	12.1	0.735	60		
21.0	20.1	19.4	18.7	18.1	17.5	16.9	16.4	15.9	15.4	15.0	14.6	14.2	13.8	13.4	13.1	0.794	70	50 MESH	

