

XR 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																			
XR8001VS XR1101VS	15	0.061	5.1	4.5	4.0	3.7	3.4	3.1	2.9	2.7	2.5	2.4	2.2	2.1	2.0	1.9	1.8	1.8	1.7
	20	0.071	5.8	5.2	4.7	4.2	3.9	3.6	3.3	3.1	2.9	2.7	2.6	2.5	2.3	2.2	2.1	2.0	1.9
100 MESH ORANGE	30	0.087	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	0.100	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	0.112	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	0.122	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
XR80015VS XR11015VS	15	0.092	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
	20	0.106	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
100 MESH GREEN	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
XR8002VS XR1102VS	15	0.122	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
	20	0.141	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
50 MESH YELLOW	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
XR8003VS XR1103VS	15	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
	20	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
50 MESH BLUE	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
XR8004VS XR1104VS	15	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
	20	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
50 MESH RED	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

XR 80° / 110° 18" TIP SPACING

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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	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.061	15	
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	0.071	20	
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	0.087	30	
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	0.100	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	0.112	50	
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	0.122	60	
XR8001VS XR1101VS 100 MESH ORANGE																		
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	0.092	15	
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	0.106	20	
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	
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	
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	
XR80015VS XR11015VS 100 MESH GREEN																		
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	0.122	15	
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	0.141	20	
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	
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	
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	
XR8002VS XR1102VS 50 MESH YELLOW																		
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	15	
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	20	
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	
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	
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	
XR8003VS XR1103VS 50 MESH BLUE																		
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	15	
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	20	
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	
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	
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	
XR8004VS XR1104VS 50 MESH RED																		

XR 80° / 110° 18" TIP SPACING

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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		
XR8005VS XR1105VS	15	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	
	20	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	
	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 MESH	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
	BROWN	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
XR8006VS XR1106VS	15	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	
	20	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	
	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 MESH	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
	GRAY	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
XR8008VS XR1108VS	15	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	
	20	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	
	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	
	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
	WHITE	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
XR8010SS XR11010SS	15	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	
	20	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	
	30	0.866	71.4	63.5	57.2	52.0	47.6	44.0	40.8	38.1	35.7	33.6	31.8	30.1	28.6	27.2	26.0	24.9	23.8	
	40	1.000	82.5	73.3	66.0	60.0	55.0	50.8	47.1	44.0	41.3	38.8	36.7	34.7	33.0	31.4	30.0	28.7	27.5	
	50 MESH	50	1.118	92.2	82.0	73.8	67.1	61.5	56.8	52.7	49.2	46.1	43.4	41.0	38.8	36.9	35.1	33.5	32.1	30.7
		60	1.225	101.0	89.8	80.8	73.5	67.4	62.2	57.7	53.9	50.5	47.5	44.9	42.5	40.4	38.5	36.7	35.1	33.7
XR8015SS XR11015SS	15	0.919	75.8	67.4	60.6	55.1	50.5	46.6	43.3	40.4	37.9	35.7	33.7	31.9	30.3	28.9	27.6	26.4	25.3	
	20	1.061	87.5	77.8	70.0	63.6	58.3	53.8	50.0	46.7	43.8	41.2	38.9	36.8	35.0	33.3	31.8	30.4	29.2	
	30	1.299	107.2	95.3	85.7	77.9	71.4	66.0	61.2	57.2	53.6	50.4	47.6	45.1	42.9	40.8	39.0	37.3	35.7	
	40	1.500	123.8	110.0	99.0	90.0	82.5	76.2	70.7	66.0	61.9	58.2	55.0	52.1	49.5	47.1	45.0	43.0	41.3	
	50 MESH	50	1.677	138.4	123.0	110.7	100.6	92.2	85.1	79.1	73.8	69.2	65.1	61.5	58.3	55.3	52.7	50.3	48.1	46.1
		60	1.837	151.6	134.7	121.2	110.2	101.0	93.3	86.6	80.8	75.8	71.3	67.4	63.8	60.6	57.7	55.1	52.7	50.5

XR 80° / 110° 18" TIP SPACING

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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		
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	15	XR8005VS XR1105VS 50 MESH 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	0.354	20	
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	
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	
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	
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	15	XR8006VS XR1106VS 50 MESH GRAY
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	20	
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	
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	
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	
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	15	XR8008VS XR1108VS 50 MESH WHITE
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	20	
18.3	17.6	16.9	16.3	15.8	15.2	14.8	14.3	13.9	13.4	13.1	12.7	12.4	12.0	11.7	11.4	0.693	30	
21.1	20.3	19.6	18.9	18.2	17.6	17.0	16.5	16.0	15.5	15.1	14.7	14.3	13.9	13.5	13.2	0.800	40	
23.6	22.7	21.9	21.1	20.4	19.7	19.0	18.4	17.9	17.4	16.9	16.4	16.0	15.5	15.1	14.8	0.894	50	
25.9	24.9	24.0	23.1	22.3	21.6	20.9	20.2	19.6	19.0	18.5	18.0	17.5	17.0	16.6	16.2	0.980	60	
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	15	XR8010SS XR11010SS 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	20	
22.9	22.0	21.2	20.4	19.7	19.1	18.4	17.9	17.3	16.8	16.3	15.9	15.4	15.0	14.7	14.3	0.866	30	
26.4	25.4	24.4	23.6	22.8	22.0	21.3	20.6	20.0	19.4	18.9	18.3	17.8	17.4	16.9	16.5	1.000	40	
29.5	28.4	27.3	26.4	25.4	24.6	23.8	23.1	22.4	21.7	21.1	20.5	19.9	19.4	18.9	18.4	1.118	50	
32.3	31.1	29.9	28.9	27.9	26.9	26.1	25.3	24.5	23.8	23.1	22.5	21.8	21.3	20.7	20.2	1.225	60	
24.2	23.3	22.5	21.7	20.9	20.2	19.6	18.9	18.4	17.8	17.3	16.8	16.4	16.0	15.5	15.2	0.919	15	XR8015SS XR11015SS 50 MESH
28.0	26.9	25.9	25.0	24.1	23.3	22.6	21.9	21.2	20.6	20.0	19.4	18.9	18.4	17.9	17.5	1.061	20	
34.3	33.0	31.8	30.6	29.6	28.6	27.7	26.8	26.0	25.2	24.5	23.8	23.2	22.6	22.0	21.4	1.299	30	
39.6	38.1	36.7	35.4	34.1	33.0	31.9	30.9	30.0	29.1	28.3	27.5	26.8	26.1	25.4	24.8	1.500	40	
44.3	42.6	41.0	39.5	38.2	36.9	35.7	34.6	33.5	32.6	31.6	30.7	29.9	29.1	28.4	27.7	1.677	50	
48.5	46.6	44.9	43.3	41.8	40.4	39.1	37.9	36.7	35.7	34.6	33.7	32.8	31.9	31.1	30.3	1.837	60	