

XR 80° / 110° 32" 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	2.8	2.5	2.3	2.1	1.9	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.0	1.0	0.9
	20	0.071	3.3	2.9	2.6	2.4	2.2	2.0	1.9	1.8	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.1	1.1
100 MESH ORANGE	30	0.087	4.0	3.6	3.2	2.9	2.7	2.5	2.3	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.5	1.4	1.3
	40	0.100	4.6	4.1	3.7	3.4	3.1	2.9	2.7	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5
	50	0.112	5.2	4.6	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7
	60	0.122	5.7	5.1	4.5	4.1	3.8	3.5	3.2	3.0	2.8	2.7	2.5	2.4	2.3	2.2	2.1	2.0	1.9
XR80015VS XR11015VS	15	0.092	4.3	3.8	3.4	3.1	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.8	1.7	1.6	1.6	1.5	1.4
	20	0.106	4.9	4.4	3.9	3.6	3.3	3.0	2.8	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6
100 MESH GREEN	30	0.130	6.0	5.4	4.8	4.4	4.0	3.7	3.4	3.2	3.0	2.8	2.7	2.5	2.4	2.3	2.2	2.1	2.0
	40	0.150	7.0	6.2	5.6	5.1	4.6	4.3	4.0	3.7	3.5	3.3	3.1	2.9	2.8	2.7	2.5	2.4	2.3
	50	0.168	7.8	6.9	6.2	5.7	5.2	4.8	4.4	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.8	2.7	2.6
	60	0.184	8.5	7.6	6.8	6.2	5.7	5.2	4.9	4.5	4.3	4.0	3.8	3.6	3.4	3.2	3.1	3.0	2.8
XR8002VS XR1102VS	15	0.122	5.7	5.1	4.5	4.1	3.8	3.5	3.2	3.0	2.8	2.7	2.5	2.4	2.3	2.2	2.1	2.0	1.9
	20	0.141	6.6	5.8	5.3	4.8	4.4	4.0	3.8	3.5	3.3	3.1	2.9	2.8	2.6	2.5	2.4	2.3	2.2
50 MESH YELLOW	30	0.173	8.0	7.1	6.4	5.8	5.4	4.9	4.6	4.3	4.0	3.8	3.6	3.4	3.2	3.1	2.9	2.8	2.7
	40	0.200	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
	50	0.224	10.4	9.2	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.6	3.5
	60	0.245	11.4	10.1	9.1	8.3	7.6	7.0	6.5	6.1	5.7	5.3	5.1	4.8	4.5	4.3	4.1	4.0	3.8
XR8003VS XR1103VS	15	0.184	8.5	7.6	6.8	6.2	5.7	5.2	4.9	4.5	4.3	4.0	3.8	3.6	3.4	3.2	3.1	3.0	2.8
	20	0.212	9.8	8.8	7.9	7.2	6.6	6.1	5.6	5.3	4.9	4.6	4.4	4.1	3.9	3.8	3.6	3.4	3.3
50 MESH BLUE	30	0.260	12.1	10.7	9.6	8.8	8.0	7.4	6.9	6.4	6.0	5.7	5.4	5.1	4.8	4.6	4.4	4.2	4.0
	40	0.300	13.9	12.4	11.1	10.1	9.3	8.6	8.0	7.4	7.0	6.6	6.2	5.9	5.6	5.3	5.1	4.8	4.6
	50	0.335	15.6	13.8	12.5	11.3	10.4	9.6	8.9	8.3	7.8	7.3	6.9	6.6	6.2	5.9	5.7	5.4	5.2
	60	0.367	17.1	15.2	13.6	12.4	11.4	10.5	9.7	9.1	8.5	8.0	7.6	7.2	6.8	6.5	6.2	5.9	5.7
XR8004VS XR1104VS	15	0.245	11.4	10.1	9.1	8.3	7.6	7.0	6.5	6.1	5.7	5.3	5.1	4.8	4.5	4.3	4.1	4.0	3.8
	20	0.283	13.1	11.7	10.5	9.5	8.8	8.1	7.5	7.0	6.6	6.2	5.8	5.5	5.3	5.0	4.8	4.6	4.4
50 MESH RED	30	0.346	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.6	7.1	6.8	6.4	6.1	5.8	5.6	5.4
	40	0.400	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
	50	0.447	20.8	18.4	16.6	15.1	13.8	12.8	11.9	11.1	10.4	9.8	9.2	8.7	8.3	7.9	7.5	7.2	6.9
	60	0.490	22.7	20.2	18.2	16.5	15.2	14.0	13.0	12.1	11.4	10.7	10.1	9.6	9.1	8.7	8.3	7.9	7.6

XR 80° / 110° 32" 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
0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.061	15
1.1	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.071	20
1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.087	30
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	1.0	1.0	0.9	0.100	40
1.7	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	1.0	0.112	50
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	1.1	0.122	60
1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.092	15
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	1.0	0.106	20
1.9	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	0.130	30
2.2	2.1	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	0.150	40
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	0.168	50
2.7	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	0.184	60
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	1.1	0.122	15
2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	0.141	20
2.6	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	0.173	30
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	0.200	40
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	0.224	50
3.6	3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.3	0.245	60
2.7	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	0.184	15
3.2	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	2.0	0.212	20
3.9	3.7	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	2.4	0.260	30
4.5	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	2.8	0.300	40
5.0	4.8	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	0.335	50
5.5	5.2	5.1	4.9	4.7	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	0.367	60
3.6	3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.3	0.245	15
4.2	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.7	2.6	0.283	20
5.1	4.9	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	0.346	30
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	0.400	40
6.6	6.4	6.1	5.9	5.7	5.5	5.4	5.2	5.0	4.9	4.7	4.6	4.5	4.4	4.3	4.2	0.447	50
7.3	7.0	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.2	5.1	4.9	4.8	4.7	4.5	0.490	60

XR 80° / 110° 32" 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		
XR8005VS XR1105VS	15	0.306	14.2	12.6	11.4	10.3	9.5	8.7	8.1	7.6	7.1	6.7	6.3	6.0	5.7	5.4	5.2	4.9	4.7	
	20	0.354	16.4	14.6	13.1	11.9	10.9	10.1	9.4	8.8	8.2	7.7	7.3	6.9	6.6	6.3	6.0	5.7	5.5	
	30	0.433	20.1	17.9	16.1	14.6	13.4	12.4	11.5	10.7	10.0	9.5	8.9	8.5	8.0	7.7	7.3	7.0	6.7	
	40	0.500	23.2	20.6	18.6	16.9	15.5	14.3	13.3	12.4	11.6	10.9	10.3	9.8	9.3	8.8	8.4	8.1	7.7	
	50 MESH	50	0.559	25.9	23.1	20.8	18.9	17.3	16.0	14.8	13.8	13.0	12.2	11.5	10.9	10.4	9.9	9.4	9.0	8.6
	BROWN	60	0.612	28.4	25.3	22.7	20.7	18.9	17.5	16.2	15.2	14.2	13.4	12.6	12.0	11.4	10.8	10.3	9.9	9.5
XR8006VS XR1106VS	15	0.367	17.1	15.2	13.6	12.4	11.4	10.5	9.7	9.1	8.5	8.0	7.6	7.2	6.8	6.5	6.2	5.9	5.7	
	20	0.424	19.7	17.5	15.8	14.3	13.1	12.1	11.3	10.5	9.8	9.3	8.8	8.3	7.9	7.5	7.2	6.8	6.6	
	30	0.520	24.1	21.4	19.3	17.5	16.1	14.8	13.8	12.9	12.1	11.3	10.7	10.2	9.6	9.2	8.8	8.4	8.0	
	40	0.600	27.8	24.8	22.3	20.3	18.6	17.1	15.9	14.9	13.9	13.1	12.4	11.7	11.1	10.6	10.1	9.7	9.3	
	50 MESH	50	0.671	31.1	27.7	24.9	22.6	20.8	19.2	17.8	16.6	15.6	14.6	13.8	13.1	12.5	11.9	11.3	10.8	10.4
	GRAY	60	0.735	34.1	30.3	27.3	24.8	22.7	21.0	19.5	18.2	17.1	16.0	15.2	14.4	13.6	13.0	12.4	11.9	11.4
XR8008VS XR1108VS	15	0.490	22.7	20.2	18.2	16.5	15.2	14.0	13.0	12.1	11.4	10.7	10.1	9.6	9.1	8.7	8.3	7.9	7.6	
	20	0.566	26.3	23.3	21.0	19.1	17.5	16.2	15.0	14.0	13.1	12.4	11.7	11.1	10.5	10.0	9.5	9.1	8.8	
	30	0.693	32.2	28.6	25.7	23.4	21.4	19.8	18.4	17.1	16.1	15.1	14.3	13.5	12.9	12.2	11.7	11.2	10.7	
	40	0.800	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	
	50 MESH	50	0.894	41.5	36.9	33.2	30.2	27.7	25.5	23.7	22.1	20.8	19.5	18.4	17.5	16.6	15.8	15.1	14.4	13.8
	WHITE	60	0.980	45.5	40.4	36.4	33.1	30.3	28.0	26.0	24.2	22.7	21.4	20.2	19.1	18.2	17.3	16.5	15.8	15.2
XR8010SS XR11010SS	15	0.612	28.4	25.3	22.7	20.7	18.9	17.5	16.2	15.2	14.2	13.4	12.6	12.0	11.4	10.8	10.3	9.9	9.5	
	20	0.707	32.8	29.2	26.3	23.9	21.9	20.2	18.8	17.5	16.4	15.4	14.6	13.8	13.1	12.5	11.9	11.4	10.9	
	30	0.866	40.2	35.7	32.2	29.2	26.8	24.7	23.0	21.4	20.1	18.9	17.9	16.9	16.1	15.3	14.6	14.0	13.4	
	40	1.000	46.4	41.3	37.1	33.8	30.9	28.6	26.5	24.8	23.2	21.8	20.6	19.5	18.6	17.7	16.9	16.1	15.5	
	50 MESH	50	1.118	51.9	46.1	41.5	37.7	34.6	31.9	29.6	27.7	25.9	24.4	23.1	21.8	20.8	19.8	18.9	18.0	17.3
		60	1.225	56.8	50.5	45.5	41.3	37.9	35.0	32.5	30.3	28.4	26.7	25.3	23.9	22.7	21.7	20.7	19.8	18.9
XR8015SS XR11015SS	15	0.919	42.6	37.9	34.1	31.0	28.4	26.2	24.4	22.7	21.3	20.1	18.9	17.9	17.1	16.2	15.5	14.8	14.2	
	20	1.061	49.2	43.8	39.4	35.8	32.8	30.3	28.1	26.3	24.6	23.2	21.9	20.7	19.7	18.8	17.9	17.1	16.4	
	30	1.299	60.3	53.6	48.2	43.8	40.2	37.1	34.4	32.2	30.1	28.4	26.8	25.4	24.1	23.0	21.9	21.0	20.1	
	40	1.500	69.6	61.9	55.7	50.6	46.4	42.8	39.8	37.1	34.8	32.8	30.9	29.3	27.8	26.5	25.3	24.2	23.2	
	50 MESH	50	1.677	77.8	69.2	62.3	56.6	51.9	47.9	44.5	41.5	38.9	36.6	34.6	32.8	31.1	29.6	28.3	27.1	25.9
		60	1.837	85.3	75.8	68.2	62.0	56.8	52.5	48.7	45.5	42.6	40.1	37.9	35.9	34.1	32.5	31.0	29.7	28.4

XR 80° / 110° 32" 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		
4.5	4.4	4.2	4.1	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.2	3.1	3.0	2.9	2.8	0.306	15	XR8005VS XR1105VS 50 MESH BROWN
5.3	5.0	4.9	4.7	4.5	4.4	4.2	4.1	4.0	3.9	3.8	3.6	3.5	3.5	3.4	3.3	0.354	20	
6.4	6.2	6.0	5.7	5.5	5.4	5.2	5.0	4.9	4.7	4.6	4.5	4.3	4.2	4.1	4.0	0.433	30	
7.4	7.1	6.9	6.6	6.4	6.2	6.0	5.8	5.6	5.5	5.3	5.2	5.0	4.9	4.8	4.6	0.500	40	
8.3	8.0	7.7	7.4	7.2	6.9	6.7	6.5	6.3	6.1	5.9	5.8	5.6	5.5	5.3	5.2	0.559	50	
9.1	8.7	8.4	8.1	7.8	7.6	7.3	7.1	6.9	6.7	6.5	6.3	6.1	6.0	5.8	5.7	0.612	60	
5.5	5.2	5.1	4.9	4.7	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	0.367	15	XR8006VS XR1106VS 50 MESH GRAY
6.3	6.1	5.8	5.6	5.4	5.3	5.1	4.9	4.8	4.6	4.5	4.4	4.3	4.1	4.0	3.9	0.424	20	
7.7	7.4	7.1	6.9	6.7	6.4	6.2	6.0	5.8	5.7	5.5	5.4	5.2	5.1	4.9	4.8	0.520	30	
8.9	8.6	8.3	8.0	7.7	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.9	5.7	5.6	0.600	40	
10.0	9.6	9.2	8.9	8.6	8.3	8.0	7.8	7.5	7.3	7.1	6.9	6.7	6.6	6.4	6.2	0.671	50	
10.9	10.5	10.1	9.7	9.4	9.1	8.8	8.5	8.3	8.0	7.8	7.6	7.4	7.2	7.0	6.8	0.735	60	
7.3	7.0	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.2	5.1	4.9	4.8	4.7	4.5	0.490	15	XR8008VS XR1108VS 50 MESH WHITE
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	5.3	0.566	20	
10.3	9.9	9.5	9.2	8.9	8.6	8.3	8.0	7.8	7.6	7.3	7.1	7.0	6.8	6.6	6.4	0.693	30	
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	0.800	40	
13.3	12.8	12.3	11.9	11.5	11.1	10.7	10.4	10.1	9.8	9.5	9.2	9.0	8.7	8.5	8.3	0.894	50	
14.5	14.0	13.5	13.0	12.5	12.1	11.7	11.4	11.0	10.7	10.4	10.1	9.8	9.6	9.3	9.1	0.980	60	
9.1	8.7	8.4	8.1	7.8	7.6	7.3	7.1	6.9	6.7	6.5	6.3	6.1	6.0	5.8	5.7	0.612	15	XR8010SS XR11010SS 50 MESH
10.5	10.1	9.7	9.4	9.1	8.8	8.5	8.2	8.0	7.7	7.5	7.3	7.1	6.9	6.7	6.6	0.707	20	
12.9	12.4	11.9	11.5	11.1	10.7	10.4	10.0	9.7	9.5	9.2	8.9	8.7	8.5	8.2	8.0	0.866	30	
14.9	14.3	13.8	13.3	12.8	12.4	12.0	11.6	11.3	10.9	10.6	10.3	10.0	9.8	9.5	9.3	1.000	40	
16.6	16.0	15.4	14.8	14.3	13.8	13.4	13.0	12.6	12.2	11.9	11.5	11.2	10.9	10.6	10.4	1.118	50	
18.2	17.5	16.8	16.2	15.7	15.2	14.7	14.2	13.8	13.4	13.0	12.6	12.3	12.0	11.7	11.4	1.225	60	
13.6	13.1	12.6	12.2	11.8	11.4	11.0	10.7	10.3	10.0	9.7	9.5	9.2	9.0	8.7	8.5	0.919	15	XR8015SS XR11015SS 50 MESH
15.8	15.1	14.6	14.1	13.6	13.1	12.7	12.3	11.9	11.6	11.3	10.9	10.6	10.4	10.1	9.8	1.061	20	
19.3	18.5	17.9	17.2	16.6	16.1	15.6	15.1	14.6	14.2	13.8	13.4	13.0	12.7	12.4	12.1	1.299	30	
22.3	21.4	20.6	19.9	19.2	18.6	18.0	17.4	16.9	16.4	15.9	15.5	15.1	14.7	14.3	13.9	1.500	40	
24.9	23.9	23.1	22.2	21.5	20.8	20.1	19.5	18.9	18.3	17.8	17.3	16.8	16.4	16.0	15.6	1.677	50	
27.3	26.2	25.3	24.4	23.5	22.7	22.0	21.3	20.7	20.1	19.5	18.9	18.4	17.9	17.5	17.1	1.837	60	