

**AI 110° / AI UB 85° 38" 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 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| AI110015VS<br><br>100 MESH<br><br>GREEN                | 30      | 0.130 | 5.1  | 4.5  | 4.1  | 3.7  | 3.4  | 3.1  | 2.9  | 2.7  | 2.5  | 2.4  | 2.3  | 2.1  | 2.0  | 1.9  | 1.8  | 1.8  | 1.7  |
|  | 40      | 0.15  | 5.9  | 5.2  | 4.7  | 4.3  | 3.9  | 3.6  | 3.3  | 3.1  | 2.9  | 2.8  | 2.6  | 2.5  | 2.3  | 2.2  | 2.1  | 2.0  | 2.0  |
|  | 50      | 0.168 | 6.6  | 5.8  | 5.2  | 4.8  | 4.4  | 4.0  | 3.7  | 3.5  | 3.3  | 3.1  | 2.9  | 2.8  | 2.6  | 2.5  | 2.4  | 2.3  | 2.2  |
|  | 60      | 0.184 | 7.2  | 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  |
|  | 70      | 0.198 | 7.8  | 6.9  | 6.2  | 5.6  | 5.2  | 4.8  | 4.4  | 4.1  | 3.9  | 3.6  | 3.4  | 3.3  | 3.1  | 3.0  | 2.8  | 2.7  | 2.6  |
|  | 80      | 0.212 | 8.3  | 7.4  | 6.6  | 6.0  | 5.5  | 5.1  | 4.7  | 4.4  | 4.1  | 3.9  | 3.7  | 3.5  | 3.3  | 3.2  | 3.0  | 2.9  | 2.8  |
|  | 90      | 0.225 | 8.8  | 7.8  | 7.0  | 6.4  | 5.9  | 5.4  | 5.0  | 4.7  | 4.4  | 4.1  | 3.9  | 3.7  | 3.5  | 3.3  | 3.2  | 3.1  | 2.9  |
|  | 110     | 0.249 | 9.7  | 8.6  | 7.8  | 7.1  | 6.5  | 6.0  | 5.6  | 5.2  | 4.9  | 4.6  | 4.3  | 4.1  | 3.9  | 3.7  | 3.5  | 3.4  | 3.2  |
| AI11002VS<br><br>50 MESH<br><br>YELLOW                 | 30      | 0.173 | 6.8  | 6.0  | 5.4  | 4.9  | 4.5  | 4.2  | 3.9  | 3.6  | 3.4  | 3.2  | 3.0  | 2.8  | 2.7  | 2.6  | 2.5  | 2.4  | 2.3  |
|  | 40      | 0.200 | 7.8  | 6.9  | 6.3  | 5.7  | 5.2  | 4.8  | 4.5  | 4.2  | 3.9  | 3.7  | 3.5  | 3.3  | 3.1  | 3.0  | 2.8  | 2.7  | 2.6  |
|  | 50      | 0.224 | 8.7  | 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  |
|  | 60      | 0.245 | 9.6  | 8.5  | 7.7  | 7.0  | 6.4  | 5.9  | 5.5  | 5.1  | 4.8  | 4.5  | 4.3  | 4.0  | 3.8  | 3.6  | 3.5  | 3.3  | 3.2  |
|  | 70      | 0.265 | 10.3 | 9.2  | 8.3  | 7.5  | 6.9  | 6.4  | 5.9  | 5.5  | 5.2  | 4.9  | 4.6  | 4.4  | 4.1  | 3.9  | 3.8  | 3.6  | 3.4  |
|  | 80      | 0.283 | 11.1 | 9.8  | 8.8  | 8.0  | 7.4  | 6.8  | 6.3  | 5.9  | 5.5  | 5.2  | 4.9  | 4.7  | 4.4  | 4.2  | 4.0  | 3.8  | 3.7  |
|  | 90      | 0.300 | 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  |
|  | 110     | 0.332 | 13.0 | 11.5 | 10.4 | 9.4  | 8.6  | 8.0  | 7.4  | 6.9  | 6.5  | 6.1  | 5.8  | 5.5  | 5.2  | 4.9  | 4.7  | 4.5  | 4.3  |
| AI110025VS<br>AIUB85025VS<br><br>50 MESH<br><br>PURPLE | 30      | 0.217 | 8.5  | 7.5  | 6.8  | 6.2  | 5.6  | 5.2  | 4.8  | 4.5  | 4.2  | 4.0  | 3.8  | 3.6  | 3.4  | 3.2  | 3.1  | 2.9  | 2.8  |
|  | 40      | 0.250 | 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  |
|  | 50      | 0.280 | 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  |
|  | 60      | 0.306 | 12.0 | 10.6 | 9.6  | 8.7  | 8.0  | 7.4  | 6.8  | 6.4  | 6.0  | 5.6  | 5.3  | 5.0  | 4.8  | 4.6  | 4.4  | 4.2  | 4.0  |
|  | 70      | 0.331 | 12.9 | 11.5 | 10.3 | 9.4  | 8.6  | 8.0  | 7.4  | 6.9  | 6.5  | 6.1  | 5.7  | 5.4  | 5.2  | 4.9  | 4.7  | 4.5  | 4.3  |
|  | 80      | 0.354 | 13.8 | 12.3 | 11.1 | 10.0 | 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  |
|  | 90      | 0.375 | 14.7 | 13.0 | 11.7 | 10.7 | 9.8  | 9.0  | 8.4  | 7.8  | 7.3  | 6.9  | 6.5  | 6.2  | 5.9  | 5.6  | 5.3  | 5.1  | 4.9  |
|  | 110     | 0.415 | 16.2 | 14.4 | 13.0 | 11.8 | 10.8 | 10.0 | 9.3  | 8.6  | 8.1  | 7.6  | 7.2  | 6.8  | 6.5  | 6.2  | 5.9  | 5.6  | 5.4  |
| AI11003VS<br>AIUB8503VS<br><br>50 MESH<br><br>BLUE     | 30      | 0.260 | 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      | 0.300 | 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      | 0.335 | 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  |
|  | 60      | 0.367 | 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      | 0.397 | 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      | 0.424 | 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      | 0.450 | 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  |
|  | 110     | 0.497 | 19.4 | 17.3 | 15.6 | 14.1 | 13.0 | 12.0 | 11.1 | 10.4 | 9.7  | 9.1  | 8.6  | 8.2  | 7.8  | 7.4  | 7.1  | 6.8  | 6.5  |
| AI11004VS<br>AIUB8504VS<br><br>50 MESH<br><br>RED      | 30      | 0.346 | 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      | 0.400 | 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      | 0.447 | 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  |
|  | 60      | 0.490 | 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      | 0.529 | 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      | 0.566 | 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  |
|  | 90      | 0.600 | 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  |
|  | 110     | 0.632 | 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  |
| AI11005VS<br><br>50 MESH<br><br>BROWN                  | 30      | 0.433 | 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      | 0.500 | 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      | 0.559 | 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  |
|  | 60      | 0.612 | 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      | 0.661 | 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      | 0.707 | 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      | 0.750 | 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  |
|  | 110     | 0.829 | 32.4 | 28.8 | 25.9 | 23.6 | 21.6 | 19.9 | 18.5 | 17.3 | 16.2 | 15.2 | 14.4 | 13.6 | 13.0 | 12.3 | 11.8 | 11.3 | 10.8 |
| AI11006VS  | 30      | 0.520 | 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      | 0.600 | 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  |

**AI 110° / AI UB 85° 38" 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 |  |  |
| 1.6  | 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  | 0.130 | 30  | AI110015VS<br><br>100 MESH<br><br>GREEN                |  |
| 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  | 0.150 | 40  |  |  |
| 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  | 1.3  | 1.3  | 0.168 | 50  |  |  |
| 2.3  | 2.2  | 2.1  | 2.1  | 2.0  | 1.9  | 1.9  | 1.8  | 1.7  | 1.7  | 1.6  | 1.6  | 1.6  | 1.5  | 1.5  | 1.4  | 0.184 | 60  |  |  |
| 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  | 0.198 | 70  |  |  |
| 2.7  | 2.6  | 2.5  | 2.4  | 2.3  | 2.2  | 2.1  | 2.1  | 2.0  | 2.0  | 1.9  | 1.8  | 1.8  | 1.7  | 1.7  | 1.7  | 0.212 | 80  |  |  |
| 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  | 1.8  | 1.8  | 0.225 | 90  |  |  |
| 3.0  | 2.9  | 2.7  | 2.6  | 2.6  | 2.5  | 2.4  | 2.3  | 2.2  | 2.2  | 2.1  | 2.1  | 2.0  | 2.0  | 1.9  | 1.9  | 0.237 | 100 |  |  |
| 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  | 2.0  | 2.0  | 1.9  | 0.249 | 110 |  |  |
| 2.2  | 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  | 1.4  | 0.173 | 30  | AI11002VS<br><br>50 MESH<br><br>YELLOW                 |  |
| 2.5  | 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  | 0.200 | 40  |  |  |
| 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  | 1.7  | 0.224 | 50  |  |  |
| 3.1  | 2.9  | 2.8  | 2.7  | 2.6  | 2.6  | 2.5  | 2.4  | 2.3  | 2.3  | 2.2  | 2.1  | 2.1  | 2.0  | 2.0  | 1.9  | 0.245 | 60  |  |  |
| 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  | 0.265 | 70  |  |  |
| 3.5  | 3.4  | 3.3  | 3.2  | 3.0  | 2.9  | 2.9  | 2.8  | 2.7  | 2.6  | 2.5  | 2.5  | 2.4  | 2.3  | 2.3  | 2.2  | 0.283 | 80  |  |  |
| 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  | 0.300 | 90  |  |  |
| 4.0  | 3.8  | 3.7  | 3.5  | 3.4  | 3.3  | 3.2  | 3.1  | 3.0  | 2.9  | 2.8  | 2.7  | 2.7  | 2.6  | 2.5  | 2.5  | 0.316 | 100 |  |  |
| 4.1  | 4.0  | 3.8  | 3.7  | 3.6  | 3.5  | 3.3  | 3.2  | 3.1  | 3.0  | 3.0  | 2.9  | 2.8  | 2.7  | 2.7  | 2.6  | 0.332 | 110 |  |  |
| 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  | 1.7  | 1.7  | 0.217 | 30  | AI110025VS<br>AIUB85025VS<br><br>50 MESH<br><br>PURPLE |  |
| 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  | 0.250 | 40  |  |  |
| 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  | 0.280 | 50  |  |  |
| 3.8  | 3.7  | 3.5  | 3.4  | 3.3  | 3.2  | 3.1  | 3.0  | 2.9  | 2.8  | 2.7  | 2.7  | 2.6  | 2.5  | 2.5  | 2.4  | 0.306 | 60  |  |  |
| 4.1  | 4.0  | 3.8  | 3.7  | 3.6  | 3.4  | 3.3  | 3.2  | 3.1  | 3.0  | 3.0  | 2.9  | 2.8  | 2.7  | 2.7  | 2.6  | 0.331 | 70  |  |  |
| 4.4  | 4.3  | 4.1  | 3.9  | 3.8  | 3.7  | 3.6  | 3.5  | 3.3  | 3.3  | 3.2  | 3.1  | 3.0  | 2.9  | 2.8  | 2.8  | 0.354 | 80  |  |  |
| 4.7  | 4.5  | 4.3  | 4.2  | 4.0  | 3.9  | 3.8  | 3.7  | 3.6  | 3.4  | 3.3  | 3.3  | 3.2  | 3.1  | 3.0  | 2.9  | 0.375 | 90  |  |  |
| 4.9  | 4.8  | 4.6  | 4.4  | 4.3  | 4.1  | 4.0  | 3.9  | 3.7  | 3.6  | 3.5  | 3.4  | 3.3  | 3.3  | 3.2  | 3.1  | 0.395 | 100 |  |  |
| 5.2  | 5.0  | 4.8  | 4.6  | 4.5  | 4.3  | 4.2  | 4.1  | 3.9  | 3.8  | 3.7  | 3.6  | 3.5  | 3.4  | 3.3  | 3.2  | 0.415 | 110 |  |  |
| 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  | 0.260 | 30  | AI11003VS<br>AIUB8503VS<br><br>50 MESH<br><br>BLUE     |  |
| 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  | 0.300 | 40  |  |  |
| 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  | 0.335 | 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  | 0.367 | 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  | 0.397 | 70  |  |  |
| 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  | 0.424 | 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  | 0.450 | 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  | 0.474 | 100 |  |  |
| 6.2  | 6.0  | 5.8  | 5.6  | 5.4  | 5.2  | 5.0  | 4.9  | 4.7  | 4.6  | 4.4  | 4.3  | 4.2  | 4.1  | 4.0  | 3.9  | 0.497 | 110 |  |  |
| 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  | 0.346 | 30  | AI11004VS<br>AIUB8504VS<br><br>50 MESH<br><br>RED      |  |
| 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  | 0.400 | 40  |  |  |
| 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  | 0.447 | 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  | 0.490 | 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  | 0.529 | 70  |  |  |
| 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  | 0.566 | 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  | 0.600 | 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  | 0.632 | 100 |  |  |
| 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  | 0.663 | 110 |  |  |
| 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  | 0.433 | 30  | AI11005VS<br><br>50 MESH<br><br>BROWN                  |  |
| 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  | 0.500 | 40  |  |  |
| 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  | 0.559 | 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  | 0.612 | 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  | 0.661 | 70  |  |  |
| 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  | 0.707 | 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  | 0.750 | 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  | 0.791 | 100 |  |  |
| 10.4 | 10.0 | 9.6  | 9.3  | 8.9  | 8.6  | 8.4  | 8.1  | 7.9  | 7.6  | 7.4  | 7.2  | 7.0  | 6.8  | 6.6  | 6.5  | 0.829 | 110 |  |  |
| 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  | 0.520 | 30  | AI11006VS  |  |
| 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  | 0.600 | 40  |  |  |

**AI 110° / AI UB 85° 38" 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 |      |
|------------|-----|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50 MESH    | psi |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|            | gpm |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|            | 50  | 0.671 | 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  |
|            | 60  | 0.735 | 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  | 0.794 | 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  | 0.849 | 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  | 0.900 | 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 |
| GRAY       | 100 | 0.949 | 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 |
|            | 110 | 0.995 | 38.9 | 34.6 | 31.1 | 28.3 | 25.9 | 23.9 | 22.2 | 20.7 | 19.4 | 18.3 | 17.3 | 16.4 | 15.6 | 14.8 | 14.1 | 13.5 | 13.0 |
|            |     |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| AI11008VS  | 30  | 0.693 | 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  | 0.800 | 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  | 0.894 | 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 |
|            | 60  | 0.980 | 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  | 1.058 | 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  | 1.131 | 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  | 1.200 | 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 |
| WHITE      | 100 | 1.265 | 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 |
|            | 110 | 1.327 | 51.8 | 46.1 | 41.5 | 37.7 | 34.6 | 31.9 | 29.6 | 27.7 | 25.9 | 24.4 | 23.0 | 21.8 | 20.7 | 19.8 | 18.9 | 18.0 | 17.3 |
|            |     |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| AI11010VS  | 30  | 0.866 | 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  | 1.000 | 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  | 1.118 | 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 |
|            | 60  | 1.225 | 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  | 1.323 | 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  | 1.414 | 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  | 1.500 | 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 |
| LIGHT BLUE | 100 | 1.581 | 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 |
|            | 110 | 1.658 | 64.8 | 57.6 | 51.8 | 47.1 | 43.2 | 39.9 | 37.0 | 34.6 | 32.4 | 30.5 | 28.8 | 27.3 | 25.9 | 24.7 | 23.6 | 22.5 | 21.6 |

**AI 110°/ AI UB 85° 38" 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 |
| 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  | 0.671 | 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  | 0.735 | 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  | 0.794 | 70  |     |
| 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  | 0.849 | 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  | 0.900 | 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  | 0.949 | 100 |     |
| 12.4       | 12.0 | 11.5 | 11.1 | 10.7 | 10.4 | 10.0 | 9.7  | 9.4  | 9.1  | 8.9  | 8.6  | 8.4  | 8.2  | 8.0  | 7.8  | 0.995 | 110 |     |
| 50 MESH    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |     |     |
| 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  | 0.693 | 30  |     |
| 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  | 0.800 | 40  |     |
| 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  | 0.894 | 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  | 0.980 | 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  | 1.058 | 70  |     |
| 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  | 1.131 | 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  | 1.200 | 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  | 1.265 | 100 |     |
| 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 | 1.327 | 110 |     |
| 50 MESH    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |     |     |
| 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  | 0.866 | 30  |     |
| 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  | 1.000 | 40  |     |
| 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  | 1.118 | 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  | 1.225 | 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 | 1.323 | 70  |     |
| 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 | 1.414 | 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 | 1.500 | 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 | 1.581 | 100 |     |
| 20.7       | 19.9 | 19.2 | 18.5 | 17.9 | 17.3 | 16.7 | 16.2 | 15.7 | 15.2 | 14.8 | 14.4 | 14.0 | 13.6 | 13.3 | 13.0 | 1.658 | 110 |     |
| LIGHT BLUE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |     |     |