

## SALT WATER HYDROSTATICS

| HYDROSTATIC PROPERTIES             |                             |               |      |                 |        |                    |        |        |
|------------------------------------|-----------------------------|---------------|------|-----------------|--------|--------------------|--------|--------|
| No Trim, No Heel, Fixed VCG = 0.00 |                             |               |      |                 |        |                    |        |        |
| LCF<br>Draft                       | Displacement<br>Weight (LT) | Buoyancy-Ctr. |      | Weight/<br>Inch | LCF    | Moment/<br>In trim | KML    | KMT    |
|                                    |                             | LCB           | VCB  |                 |        |                    |        |        |
| 1.000                              | 309.28                      | 91.05a        | 0.51 | 26.82           | 90.56a | 290.11             | 1969.9 | 482.44 |
| 1.100                              | 341.55                      | 91.01a        | 0.56 | 26.97           | 90.56a | 294.57             | 1811.1 | 440.27 |
| 1.200                              | 374.00                      | 90.97a        | 0.61 | 27.11           | 90.52a | 298.51             | 1676.1 | 404.93 |
| 1.300                              | 406.61                      | 90.93a        | 0.66 | 27.23           | 90.51a | 302.03             | 1559.9 | 374.40 |
| 1.400                              | 439.34                      | 90.90a        | 0.71 | 27.33           | 90.49a | 305.45             | 1460.0 | 347.79 |
| 1.500                              | 472.19                      | 90.87a        | 0.76 | 27.43           | 90.48a | 308.88             | 1373.7 | 324.79 |
| 1.600                              | 505.17                      | 90.84a        | 0.82 | 27.53           | 90.47a | 312.34             | 1298.4 | 304.69 |
| 1.700                              | 538.26                      | 90.82a        | 0.87 | 27.63           | 90.45a | 315.81             | 1232.1 | 287.00 |
| 1.800                              | 571.44                      | 90.80a        | 0.92 | 27.71           | 90.45a | 318.80             | 1171.6 | 271.20 |
| 1.900                              | 604.74                      | 90.78a        | 0.97 | 27.79           | 90.42a | 321.42             | 1116.1 | 256.98 |
| 2.000                              | 638.12                      | 90.76a        | 1.02 | 27.86           | 90.40a | 324.05             | 1066.4 | 244.22 |
| 2.100                              | 671.60                      | 90.75a        | 1.07 | 27.94           | 90.38a | 326.69             | 1021.5 | 232.70 |
| 2.200                              | 705.16                      | 90.73a        | 1.12 | 28.01           | 90.36a | 329.35             | 980.8  | 222.24 |
| 2.300                              | 738.82                      | 90.71a        | 1.17 | 28.08           | 90.34a | 332.02             | 943.7  | 212.72 |
| 2.400                              | 772.56                      | 90.69a        | 1.23 | 28.16           | 90.31a | 334.70             | 909.8  | 204.00 |
| 2.500                              | 806.35                      | 90.68a        | 1.28 | 28.22           | 90.31a | 337.15             | 878.0  | 195.97 |
| 2.600                              | 840.26                      | 90.67a        | 1.33 | 28.29           | 90.31a | 339.59             | 848.7  | 188.56 |
| 2.700                              | 874.24                      | 90.65a        | 1.38 | 28.36           | 90.31a | 342.05             | 821.6  | 181.71 |
| 2.800                              | 908.31                      | 90.64a        | 1.43 | 28.42           | 90.31a | 344.51             | 796.5  | 175.36 |
| 2.900                              | 942.45                      | 90.63a        | 1.48 | 28.49           | 90.31a | 346.99             | 773.2  | 169.46 |
| 3.000                              | 976.67                      | 90.62a        | 1.53 | 28.56           | 90.31a | 349.48             | 751.4  | 163.96 |
| 3.100                              | 1,010.98                    | 90.61a        | 1.59 | 28.62           | 90.31a | 351.98             | 731.1  | 158.82 |
| 3.200                              | 1,045.36                    | 90.60a        | 1.64 | 28.69           | 90.31a | 354.49             | 712.1  | 154.01 |
| 3.300                              | 1,079.80                    | 90.59a        | 1.69 | 28.75           | 90.32a | 356.90             | 694.1  | 149.50 |
| 3.400                              | 1,114.34                    | 90.58a        | 1.74 | 28.81           | 90.34a | 359.24             | 677.0  | 145.24 |
| 3.500                              | 1,148.94                    | 90.58a        | 1.79 | 28.87           | 90.35a | 361.59             | 660.9  | 141.23 |
| 3.600                              | 1,183.62                    | 90.57a        | 1.84 | 28.93           | 90.37a | 363.95             | 645.7  | 137.45 |
| 3.700                              | 1,218.37                    | 90.56a        | 1.89 | 28.99           | 90.37a | 366.15             | 631.1  | 133.86 |
| 3.800                              | 1,253.19                    | 90.56a        | 1.95 | 29.04           | 90.37a | 368.27             | 617.1  | 130.46 |
| 3.900                              | 1,288.07                    | 90.55a        | 2.00 | 29.10           | 90.36a | 370.40             | 603.9  | 127.23 |
| 4.000                              | 1,323.02                    | 90.55a        | 2.05 | 29.15           | 90.35a | 372.48             | 591.2  | 124.17 |
| 4.100                              | 1,358.02                    | 90.54a        | 2.10 | 29.20           | 90.34a | 374.43             | 579.0  | 121.24 |
| 4.200                              | 1,393.09                    | 90.54a        | 2.15 | 29.24           | 90.32a | 376.38             | 567.4  | 118.46 |
| 4.300                              | 1,428.21                    | 90.53a        | 2.20 | 29.29           | 90.31a | 378.24             | 556.1  | 115.81 |
| 4.400                              | 1,463.38                    | 90.53a        | 2.26 | 29.33           | 90.30a | 380.05             | 545.4  | 113.28 |
| 4.500                              | 1,498.61                    | 90.52a        | 2.31 | 29.38           | 90.29a | 381.88             | 535.1  | 110.86 |
| 4.600                              | 1,533.89                    | 90.52a        | 2.36 | 29.42           | 90.29a | 383.71             | 525.3  | 108.56 |
| 4.700                              | 1,569.22                    | 90.51a        | 2.41 | 29.47           | 90.28a | 385.54             | 515.9  | 106.35 |
| 4.800                              | 1,604.61                    | 90.51a        | 2.46 | 29.51           | 90.28a | 387.38             | 507.0  | 104.24 |
| 4.900                              | 1,640.05                    | 90.50a        | 2.51 | 29.56           | 90.27a | 389.23             | 498.4  | 102.23 |
| 5.000                              | 1,675.55                    | 90.50a        | 2.57 | 29.60           | 90.26a | 391.09             | 490.2  | 100.29 |
| 5.100                              | 1,711.10                    | 90.49a        | 2.62 | 29.64           | 90.26a | 392.95             | 482.3  | 98.44  |
| 5.200                              | 1,746.70                    | 90.49a        | 2.67 | 29.69           | 90.25a | 394.81             | 474.7  | 96.66  |
| 5.300                              | 1,782.35                    | 90.48a        | 2.72 | 29.73           | 90.23a | 396.43             | 467.1  | 94.89  |
| 5.400                              | 1,818.04                    | 90.48a        | 2.77 | 29.77           | 90.23a | 398.17             | 459.9  | 93.24  |
| 5.500                              | 1,853.79                    | 90.47a        | 2.82 | 29.81           | 90.23a | 399.91             | 453.0  | 91.65  |
| 5.600                              | 1,889.58                    | 90.47a        | 2.87 | 29.85           | 90.23a | 401.63             | 446.4  | 90.11  |

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## SALT WATER HYDROSTATICS

| LCF<br>Draft | Displacement<br>Weight (LT) | Buoyancy-Ctr. |      | Weight/<br>Inch | LCF    | Moment/<br>In trim | KML   | KMT   |
|--------------|-----------------------------|---------------|------|-----------------|--------|--------------------|-------|-------|
|              |                             | LCB           | VCB  |                 |        |                    |       |       |
| 5.700        | 1,925.42                    | 90.46a        | 2.93 | 29.89           | 90.23a | 403.31             | 439.9 | 88.63 |
| 5.800        | 1,961.31                    | 90.46a        | 2.98 | 29.92           | 90.23a | 404.96             | 433.6 | 87.19 |
| 5.900        | 1,997.25                    | 90.45a        | 3.03 | 29.96           | 90.23a | 406.71             | 427.6 | 85.82 |
| 6.000        | 2,033.23                    | 90.45a        | 3.08 | 30.00           | 90.24a | 408.39             | 421.8 | 84.49 |
| 6.100        | 2,069.26                    | 90.45a        | 3.13 | 30.04           | 90.24a | 410.06             | 416.1 | 83.20 |
| 6.200        | 2,105.34                    | 90.44a        | 3.19 | 30.08           | 90.24a | 411.76             | 410.7 | 81.96 |
| 6.300        | 2,141.47                    | 90.44a        | 3.24 | 30.12           | 90.24a | 413.44             | 405.4 | 80.76 |
| 6.400        | 2,177.63                    | 90.44a        | 3.29 | 30.15           | 90.25a | 415.12             | 400.3 | 79.60 |
| 6.500        | 2,213.85                    | 90.43a        | 3.34 | 30.19           | 90.25a | 416.76             | 395.3 | 78.47 |
| 6.600        | 2,250.09                    | 90.43a        | 3.39 | 30.21           | 90.21a | 417.55             | 389.7 | 77.34 |
| 6.700        | 2,286.35                    | 90.43a        | 3.44 | 30.22           | 90.16a | 418.35             | 384.3 | 76.24 |
| 6.800        | 2,322.62                    | 90.42a        | 3.50 | 30.24           | 90.12a | 419.15             | 379.0 | 75.18 |
| 6.900        | 2,358.92                    | 90.42a        | 3.55 | 30.25           | 90.07a | 419.95             | 373.9 | 74.15 |
| 7.000        | 2,395.24                    | 90.41a        | 3.60 | 30.27           | 90.03a | 420.75             | 368.9 | 73.16 |
| 7.100        | 2,431.57                    | 90.40a        | 3.65 | 30.29           | 89.98a | 421.55             | 364.1 | 72.19 |
| 7.200        | 2,467.92                    | 90.40a        | 3.70 | 30.30           | 89.93a | 422.37             | 359.4 | 71.26 |
| 7.300        | 2,504.30                    | 90.39a        | 3.75 | 30.32           | 89.89a | 423.19             | 354.9 | 70.35 |
| 7.400        | 2,540.69                    | 90.38a        | 3.80 | 30.33           | 89.84a | 424.01             | 350.5 | 69.47 |
| 7.500        | 2,577.10                    | 90.38a        | 3.86 | 30.35           | 89.80a | 424.83             | 346.2 | 68.62 |
| 7.600        | 2,613.53                    | 90.37a        | 3.91 | 30.37           | 89.75a | 425.65             | 342.0 | 67.79 |
| 7.700        | 2,649.98                    | 90.36a        | 3.96 | 30.38           | 89.70a | 426.51             | 338.0 | 66.98 |
| 7.800        | 2,686.45                    | 90.35a        | 4.01 | 30.40           | 89.66a | 427.31             | 334.0 | 66.20 |
| 7.900        | 2,722.94                    | 90.34a        | 4.06 | 30.41           | 89.62a | 428.04             | 330.1 | 65.43 |
| 8.000        | 2,759.44                    | 90.33a        | 4.11 | 30.43           | 89.58a | 428.78             | 326.3 | 64.69 |
| 8.100        | 2,795.96                    | 90.32a        | 4.16 | 30.44           | 89.54a | 429.53             | 322.6 | 63.97 |
| 8.200        | 2,832.50                    | 90.31a        | 4.22 | 30.45           | 89.50a | 430.30             | 319.0 | 63.27 |
| 8.300        | 2,869.05                    | 90.30a        | 4.27 | 30.47           | 89.46a | 431.06             | 315.5 | 62.58 |
| 8.400        | 2,905.62                    | 90.29a        | 4.32 | 30.48           | 89.42a | 431.83             | 312.1 | 61.92 |
| 8.500        | 2,942.21                    | 90.28a        | 4.37 | 30.50           | 89.38a | 432.64             | 308.8 | 61.27 |
| 8.600        | 2,978.81                    | 90.27a        | 4.42 | 30.51           | 89.33a | 433.46             | 305.6 | 60.64 |
| 8.700        | 3,015.43                    | 90.25a        | 4.47 | 30.53           | 89.29a | 434.28             | 302.4 | 60.03 |
| 8.800        | 3,052.08                    | 90.24a        | 4.52 | 30.54           | 89.24a | 435.10             | 299.4 | 59.43 |
| 8.900        | 3,088.74                    | 90.23a        | 4.58 | 30.56           | 89.20a | 435.88             | 296.4 | 58.85 |
| 9.000        | 3,125.41                    | 90.22a        | 4.63 | 30.57           | 89.16a | 436.66             | 293.4 | 58.28 |
| 9.100        | 3,162.10                    | 90.21a        | 4.68 | 30.58           | 89.12a | 437.43             | 290.5 | 57.73 |
| 9.200        | 3,198.81                    | 90.19a        | 4.73 | 30.60           | 89.08a | 438.21             | 287.7 | 57.18 |
| 9.300        | 3,235.54                    | 90.18a        | 4.78 | 30.61           | 89.04a | 438.98             | 284.9 | 56.66 |
| 9.400        | 3,272.28                    | 90.17a        | 4.83 | 30.63           | 89.00a | 439.76             | 282.2 | 56.14 |
| 9.500        | 3,309.04                    | 90.15a        | 4.88 | 30.64           | 88.96a | 440.55             | 279.6 | 55.64 |
| 9.600        | 3,345.82                    | 90.14a        | 4.94 | 30.65           | 88.92a | 441.33             | 277.0 | 55.15 |
| 9.700        | 3,382.61                    | 90.13a        | 4.99 | 30.67           | 88.88a | 442.12             | 274.5 | 54.67 |
| 9.800        | 3,419.42                    | 90.11a        | 5.04 | 30.68           | 88.85a | 442.91             | 272.0 | 54.20 |
| 9.900        | 3,456.24                    | 90.10a        | 5.09 | 30.69           | 88.81a | 443.70             | 269.6 | 53.74 |
| 10.000       | 3,493.09                    | 90.09a        | 5.14 | 30.63           | 89.00a | 440.90             | 265.1 | 53.16 |
| 10.100       | 3,529.93                    | 90.07a        | 5.19 | 30.71           | 88.77a | 444.66             | 264.5 | 52.84 |
| 10.200       | 3,566.79                    | 90.06a        | 5.24 | 30.71           | 88.77a | 444.84             | 261.9 | 52.40 |
| 10.300       | 3,603.63                    | 90.05a        | 5.29 | 30.71           | 88.77a | 445.02             | 259.3 | 51.97 |
| 10.400       | 3,640.48                    | 90.03a        | 5.35 | 30.71           | 88.77a | 445.20             | 256.8 | 51.55 |
| 10.500       | 3,677.33                    | 90.02a        | 5.40 | 30.71           | 88.77a | 445.39             | 254.3 | 51.14 |

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SALT WATER HYDROSTATICS

| LCF<br>Draft            | Displacement<br>Weight (LT) | Buoyancy-Ctr.             |      | Weight/<br>Inch | LCF    | Moment/<br>In trim | KML   | KMT   |
|-------------------------|-----------------------------|---------------------------|------|-----------------|--------|--------------------|-------|-------|
|                         |                             | LCB                       | VCB  |                 |        |                    |       |       |
| 10.600                  | 3,714.18                    | 90.01a                    | 5.45 | 30.71           | 88.77a | 445.57             | 251.9 | 50.73 |
| 10.700                  | 3,751.03                    | 89.99a                    | 5.50 | 30.71           | 88.77a | 445.76             | 249.6 | 50.34 |
| 10.800                  | 3,787.88                    | 89.98a                    | 5.55 | 30.71           | 88.77a | 445.95             | 247.2 | 49.95 |
| 10.900                  | 3,824.73                    | 89.97a                    | 5.60 | 30.71           | 88.77a | 446.14             | 245.0 | 49.58 |
| 11.000                  | 3,861.59                    | 89.96a                    | 5.65 | 30.71           | 88.77a | 446.33             | 242.7 | 49.21 |
| 11.100                  | 3,898.43                    | 89.95a                    | 5.70 | 30.71           | 88.77a | 446.52             | 240.5 | 48.85 |
| 11.200                  | 3,935.28                    | 89.94a                    | 5.75 | 30.71           | 88.77a | 446.72             | 238.4 | 48.49 |
| 11.300                  | 3,972.13                    | 89.93a                    | 5.80 | 30.71           | 88.77a | 446.92             | 236.3 | 48.15 |
| 11.400                  | 4,008.98                    | 89.92a                    | 5.86 | 30.71           | 88.77a | 447.12             | 234.2 | 47.81 |
| 11.500                  | 4,045.83                    | 89.91a                    | 5.91 | 30.71           | 88.77a | 447.32             | 232.2 | 47.48 |
| 11.600                  | 4,082.68                    | 89.89a                    | 5.96 | 30.71           | 88.77a | 447.52             | 230.2 | 47.16 |
| 11.700                  | 4,119.53                    | 89.88a                    | 6.01 | 30.71           | 88.77a | 447.72             | 228.2 | 46.84 |
| 11.800                  | 4,156.38                    | 89.87a                    | 6.06 | 30.71           | 88.77a | 447.93             | 226.3 | 46.53 |
| 11.900                  | 4,193.23                    | 89.87a                    | 6.11 | 30.71           | 88.77a | 448.14             | 224.4 | 46.22 |
| 12.000                  | 4,230.08                    | 89.86a                    | 6.16 | 30.71           | 88.77a | 448.35             | 222.6 | 45.92 |
| 12.100                  | 4,266.93                    | 89.85a                    | 6.21 | 30.71           | 88.77a | 448.56             | 220.8 | 45.63 |
| 12.200                  | 4,303.78                    | 89.84a                    | 6.26 | 30.71           | 88.77a | 448.77             | 219.0 | 45.34 |
| 12.300                  | 4,340.63                    | 89.83a                    | 6.31 | 30.71           | 88.77a | 448.99             | 217.2 | 45.06 |
| 12.400                  | 4,377.48                    | 89.82a                    | 6.36 | 30.71           | 88.77a | 449.20             | 215.5 | 44.79 |
| 12.500                  | 4,414.32                    | 89.81a                    | 6.42 | 30.71           | 88.77a | 449.42             | 213.8 | 44.52 |
| Distances in FEET.      |                             | Specific Gravity = 1.025. |      |                 |        | Moment in Ft-LT.   |       |       |
|                         |                             | Trim is per 175.00Ft      |      |                 |        |                    |       |       |
| Draft is from Baseline. |                             |                           |      |                 |        |                    |       |       |