

**GUIDE TO TYPES "X" AND "R" OTIS LANDING NIPPLES**

| TUBING SIZE |         |       |       | FOR STANDARD TUBING WEIGHTS |          |              |          |            |          | FOR HEAVY TUBING WEIGHTS |              |            |  |  |  |  |
|-------------|---------|-------|-------|-----------------------------|----------|--------------|----------|------------|----------|--------------------------|--------------|------------|--|--|--|--|
|             |         |       |       | TYPE "X"                    |          | TYPE "XN"    |          |            |          | TYPE "R"                 | TYPE "RN"    |            |  |  |  |  |
|             |         |       |       | Nipple Bore                 |          | Packing Bore |          | No-Go I.D. |          | Packing Bore             | Packing Bore | No-Go I.D. |  |  |  |  |
| O.D.        | Wt./Ft. | I.D.  | Drift | Standard                    | Optional | Standard     | Optional | Standard   | Optional | Packing Bore             | Packing Bore | No-Go I.D. |  |  |  |  |
| 1.050       | 1.200   | 0.824 | 0.730 | Available On Request        |          |              |          |            |          |                          |              |            |  |  |  |  |
| 1.315       | 1.800   | 1.049 | 0.955 | 0.875                       | 0.937    | 0.875        | 0.937    | 0.850      | 0.885    |                          |              |            |  |  |  |  |
|             | 2.250   | 0.957 | 0.848 |                             |          |              |          |            |          | 0.714                    | 0.714        | 0.638      |  |  |  |  |
| 1.660       | 2.330   | 1.380 | 1.286 | 1.250                       |          | 1.250        |          | 1.135      |          |                          |              |            |  |  |  |  |
|             | 2.400   | 1.380 | 1.286 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 3.020   | 1.278 | 1.184 |                             |          |              |          |            |          | 1.125                    | 1.125        | 1.012      |  |  |  |  |
| 1.900       | 2.400   | 1.650 | 1.516 | 1.500                       | 1.438    | 1.500        | 1.438    | 1.448      | 1.401    |                          |              |            |  |  |  |  |
|             | 2.600   | 1.610 | 1.516 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 2.900   | 1.610 | 1.516 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 3.640   | 1.500 | 1.406 |                             |          |              |          |            |          | 1.375                    | 1.375        | 1.250      |  |  |  |  |
| 2.000       | 3.400   | 1.670 | 1.576 | 1.500                       |          | 1.500        |          | 1.448      |          |                          |              |            |  |  |  |  |
| 2.063       | 3.250   | 1.751 | 1.657 | 1.625                       |          | 1.625        |          | 1.536      |          |                          |              |            |  |  |  |  |
|             | 3.400   | 1.750 | 1.657 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 2.375       | 4.600   | 1.995 | 1.901 | 1.875                       | 1.905    | 1.875        |          | 1.791      |          |                          |              |            |  |  |  |  |
|             | 4.700   | 1.995 | 1.901 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 5.300   | 1.939 | 1.845 |                             |          |              |          |            |          | 1.781                    | 1.781        | 1.640      |  |  |  |  |
|             | 5.950   | 1.867 | 1.775 |                             |          |              |          |            |          | 1.710                    | 1.710        | 1.560      |  |  |  |  |
|             | 6.200   | 1.853 | 1.759 |                             |          |              |          |            |          | 1.500                    | 1.500        | 1.345      |  |  |  |  |
|             | 7.700   | 1.703 | 1.609 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 2.875       | 6.400   | 2.441 | 2.347 | 2.313                       | 2.380    | 2.313        |          | 2.205      |          |                          |              |            |  |  |  |  |
|             | 6.500   | 2.441 | 2.347 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 7.900   | 2.323 | 2.229 |                             |          |              |          |            |          | 2.188                    | 2.188        | 2.010      |  |  |  |  |
|             | 8.700   | 2.259 | 2.165 |                             |          |              |          |            |          | 2.125                    | 2.125        | 1.937      |  |  |  |  |
|             | 8.900   | 2.243 | 2.149 |                             |          |              |          |            |          | 2.000                    | 2.000        | 1.881      |  |  |  |  |
|             | 9.500   | 2.195 | 2.101 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 10.400  | 2.151 | 2.057 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 10.700  | 2.091 | 1.997 |                             |          |              |          |            |          | 1.875                    | 1.875        | 1.716      |  |  |  |  |
| 11.000      | 2.065   | 1.971 |       |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 11.650      | 1.995   | 1.901 |       |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 3.500       | 9.300   | 2.992 | 2.867 | 2.813                       | 2.875    | 2.750        | 2.875    | 2.666      | 2.760    |                          |              |            |  |  |  |  |
|             | 10.300  | 2.922 | 2.797 | 2.750                       | 2.813    | 2.750        | 2.750    | 2.635      | 2.760    |                          |              |            |  |  |  |  |
|             | 12.800  | 2.764 | 2.639 |                             |          |              |          |            |          | 2.562                    | 2.562        | 2.329      |  |  |  |  |
|             | 12.950  | 2.750 | 2.625 |                             |          |              |          |            |          | 2.313                    | 2.313        | 2.131      |  |  |  |  |
|             | 15.800  | 2.548 | 2.423 |                             |          |              |          |            |          | 2.188                    | 2.188        | 2.010      |  |  |  |  |
|             | 16.700  | 2.480 | 2.355 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 17.050      | 2.440   | 2.315 |       |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 4.000       | 10.900  | 3.476 | 3.351 | 3.313                       |          | 3.313        |          | 3.135      |          |                          |              |            |  |  |  |  |
|             | 11.000  | 3.476 | 3.351 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 11.600  | 3.428 | 3.303 |                             |          |              |          |            |          | 3.250                    | 3.250        | 3.088      |  |  |  |  |
|             | 13.400  | 3.340 | 3.215 |                             |          |              |          |            |          | 3.125                    | 3.125        | 2.907      |  |  |  |  |
| 4.500       | 12.750  | 3.958 | 3.833 | 3.813                       |          | 3.813        |          | 3.725      |          | 3.813                    |              |            |  |  |  |  |
|             | 13.500  | 3.920 | 3.795 |                             |          |              |          |            |          | 3.688                    | 3.688        | 3.456      |  |  |  |  |
|             | 15.500  | 3.826 | 3.701 |                             |          |              |          |            |          | 3.437                    | 3.437        | 3.162      |  |  |  |  |
|             | 16.900  | 3.754 | 3.629 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 19.200  | 3.640 | 3.515 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
| 5.000       | 13.000  | 4.494 | 4.369 | 4.313                       |          | 4.313        |          |            |          | 4.125                    | 4.125        | 3.913      |  |  |  |  |
|             | 15.000  | 4.408 | 4.283 |                             |          |              |          |            |          | 4.125                    | 4.125        | 3.913      |  |  |  |  |
|             | 18.000  | 4.276 | 4.151 |                             |          |              |          |            |          | 4.000                    | 4.000        | 3.748      |  |  |  |  |
| 5.500       | 15.500  | 4.950 | 4.825 | 4.562                       |          | 4.562        |          | 4.455      |          | 4.562                    | 4.562        | 4.455      |  |  |  |  |
|             | 17.000  | 4.892 | 4.767 |                             |          |              |          |            |          |                          |              |            |  |  |  |  |
|             | 23.000  | 4.670 | 4.545 |                             |          |              |          |            |          | 4.313                    | 4.313        | 3.987      |  |  |  |  |
| 7.000       | 17-32   |       |       |                             |          |              |          |            |          | 5.962                    | 5.962        | 5.750      |  |  |  |  |