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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**ISO RECOMMENDATION  
R 64**

**STEEL TUBES  
OUTSIDE DIAMETERS**

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## STEEL TUBES

## OUTSIDE DIAMETERS

## 1. SCOPE

This ISO Recommendation specifies the outside diameters, in millimetres and in inches, of steel tubes.

## 2. OUTSIDE DIAMETERS

The dimensions in millimetres and in inches, given in the tables, are considered to be "corresponding values" although some of them are not exact equivalents. In all cases, however, the dimensions ensure practical interchangeability.

TABLE 1 - Outside diameters

| Corresponding values |        | Corresponding values |        |
|----------------------|--------|----------------------|--------|
| millimetres          | inches | millimetres          | inches |
| 10.2                 | 0.402  | 141.3                | 5.563  |
| 12                   | 0.472  | 152.4                | 6.000  |
| 13.5                 | 0.531  | 159                  | 6.250  |
| 16                   | 0.625  | 165.1                | 6.500  |
| 17.2                 | 0.677  | 168.3                | 6.625  |
| 19                   | 0.750  | 177.8                | 7.000  |
| 20                   | 0.787  | 193.7                | 7.625  |
| 21.3                 | 0.840  | 219.1                | 8.625  |
| 25                   | —      | 244.5                | 9.625  |
| 25.4                 | 1.000  | 267                  | 10.500 |
| 26.9                 | 1.059  | 273                  | 10.750 |
| 30                   | 1.181  | 298.5                | 11.750 |
| 31.8                 | 1.250  | 323.9                | 12.750 |
| 33.7                 | 1.327  | 355.6                | 14.000 |
| 38                   | 1.500  | 368                  | 14.500 |
| 42.4                 | 1.669  | 406.4                | 16.000 |
| 44.5                 | 1.750  | 419                  | 16.5   |
| 48.3                 | 1.900  | 457                  | 18.0   |
| 51                   | 2.000  | 508                  | 20.0   |
| 54                   | 2.125  | 559                  | 22.0   |
| 57                   | 2.250  | 610                  | 24.0   |
| 60.3                 | 2.375  | 660                  | 26.0   |
| 63.5                 | 2.500  | 711                  | 28.0   |
| 70                   | 2.750  | 762                  | 30.0   |
| 73                   | 2.875  | 813                  | 32.0   |
| 76.1                 | 3.000  | 864                  | 34.0   |
| 82.5                 | 3.250  | 914                  | 36.0   |
| 88.9                 | 3.500  | 1016                 | 40.0   |
| 101.6                | 4.000  | 1220                 | 48.0   |
| 108                  | 4.250  | 1420                 | 55.9   |
| 114.3                | 4.500  | 1620                 | 63.8   |
| 127                  | 5.000  | 1820                 | 71.7   |
| 133                  | 5.250  | 2020                 | 79.5   |
| 139.7                | 5.500  | 2220                 | 87.4   |

NOTE. - The tubes mentioned below have served as a basis for the setting up of the series of outside diameters :

TABLE 2 - Tubes which may be screwed as specified in ISO Recommendation R 7\*

| Corresponding values |                  |
|----------------------|------------------|
| millimetres          | inches           |
| 10.2                 | $\frac{13}{32}$  |
| 13.5                 | $\frac{17}{32}$  |
| 17.2                 | $\frac{11}{16}$  |
| 21.3                 | $\frac{27}{32}$  |
| 26.9                 | $1\frac{1}{16}$  |
| 33.7                 | $1\frac{11}{32}$ |
| 42.4                 | $1\frac{11}{16}$ |
| 48.3                 | $1\frac{29}{32}$ |
| 60.3                 | $2\frac{3}{8}$   |
| 76.1                 | 3                |
| 88.9                 | $3\frac{1}{2}$   |
| 101.6                | 4                |
| 114.3                | $4\frac{1}{2}$   |
| 139.7                | $5\frac{1}{2}$   |

TABLE 3 - Tubes which may be screwed as specified in the standards ASA B2.1-1945\*\*, API 5A-1957 and API 5L-1957\*\*\*.

| Corresponding values |                 |
|----------------------|-----------------|
| millimetres          | inches          |
| 168.3                | $6\frac{5}{8}$  |
| 193.7                | $7\frac{5}{8}$  |
| 219.1                | $8\frac{5}{8}$  |
| 244.5                | $9\frac{5}{8}$  |
| 273                  | $10\frac{3}{4}$ |
| 323.9                | $12\frac{3}{4}$ |
| 355.6                | 14              |
| 406.4                | 16              |

\* ISO Recommendation R 7, *Pipe threads for gas list tubes and screwed fittings where pressure-tight joints are made on the threads (1/8 inch to 6 inches).*

\*\* American National Standards Institute, B2.1-1945, *Pipe threads.*

\*\*\* American Petroleum Institute, API 5A-1957, *Specification for casing, tubing and drill pipe,* and API 5L-1957, *Specification for line pipe.*

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