

## STEEL PIPE SCHEDULE DIMENSIONS - ASME B36.10

Outside diameter and nominal wall thickness in mm

### Selection notes

ASME B36.10 standardizes dimensions for welded and seamless wrought steel pipe. For a given NPS, the outside diameter remains fixed while wall thickness changes with Schedule. Schedule is a wall-thickness designation and is not, by itself, a pressure rating.

| NPS   | OD mm  | SCH 10 | SCH 20 | SCH 30 | SCH 40 | SCH 60 | SCH 80 | SCH 100 | SCH 120 | SCH 140 | SCH 160 |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 1/2   | 21.34  | -      | -      | -      | 2.77   | -      | 3.73   | -       | -       | -       | 4.75    |
| 3/4   | 26.67  | -      | -      | -      | 2.87   | -      | 3.91   | -       | -       | -       | 5.56    |
| 1     | 33.40  | -      | -      | -      | 3.38   | -      | 4.55   | -       | -       | -       | 6.35    |
| 1-1/4 | 42.16  | -      | -      | -      | 3.56   | -      | 4.85   | -       | -       | -       | 6.35    |
| 1-1/2 | 48.26  | -      | -      | -      | 3.68   | -      | 5.08   | -       | -       | -       | 7.14    |
| 2     | 60.32  | -      | -      | -      | 3.91   | -      | 5.54   | -       | -       | -       | 8.74    |
| 2-1/2 | 73.02  | -      | -      | -      | 5.16   | -      | 7.01   | -       | -       | -       | 9.52    |
| 3     | 88.90  | -      | -      | -      | 5.49   | -      | 7.62   | -       | -       | -       | 11.13   |
| 3-1/2 | 101.60 | -      | -      | -      | 5.74   | -      | 8.08   | -       | -       | -       | -       |
| 4     | 114.30 | -      | -      | -      | 6.02   | -      | 8.56   | -       | 11.13   | -       | 13.49   |
| 5     | 141.30 | -      | -      | -      | 6.55   | -      | 9.52   | -       | 12.70   | -       | 15.88   |



| NPS | OD mm  | SCH 10 | SCH 20 | SCH 30 | SCH 40 | SCH 60 | SCH 80 | SCH 100 | SCH 120 | SCH 140 | SCH 160 |
|-----|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 6   | 168.27 | -      | -      | -      | 7.11   | -      | 10.97  | -       | 14.27   | -       | 18.26   |
| 8   | 219.07 | -      | 6.35   | 7.04   | 8.18   | 10.31  | 12.70  | 15.09   | 18.26   | 20.62   | 23.01   |
| 10  | 273.05 | -      | 6.35   | 7.80   | 9.27   | 12.70  | 15.09  | 18.26   | 21.44   | 25.40   | 28.57   |
| 12  | 323.85 | -      | 6.35   | 8.38   | 10.31  | 14.27  | 17.48  | 21.44   | 25.40   | 28.57   | 33.32   |
| 14  | 355.60 | 6.35   | 7.92   | 9.52   | 11.13  | 15.09  | 19.05  | 23.83   | 27.79   | 31.75   | 35.71   |
| 16  | 406.40 | 6.35   | 7.92   | 9.52   | 12.70  | 16.66  | 21.44  | 26.19   | 30.96   | 36.53   | 40.49   |
| 18  | 457.20 | 6.35   | 7.92   | 11.13  | 14.27  | 19.05  | 23.83  | 29.36   | 34.92   | 39.67   | 45.24   |
| 20  | 508.00 | 6.35   | 9.52   | 12.70  | 15.09  | 20.62  | 26.19  | 32.54   | 38.10   | 44.45   | 50.01   |
| 22  | 558.80 | 6.35   | 9.52   | 12.70  | -      | 22.22  | 28.57  | 34.92   | 41.27   | 47.62   | 53.97   |
| 24  | 609.60 | 6.35   | 9.52   | 14.27  | 17.48  | 24.61  | 30.96  | 38.89   | 46.02   | 52.37   | 59.54   |

## Important

A blank cell means that the referenced schedule is not listed for that NPS in the dimensional table used for this sheet. Pressure suitability must be checked against pipe material, temperature, design code, corrosion allowance, manufacturing specification and service conditions. Availability must be confirmed before ordering.

## Ordering information

Specify NPS/DN, Schedule, pipe material/specification, welded or seamless construction if required, length, end preparation, operating pressure and temperature, conveyed medium, quantity and required certification.