# STAINLESS STEEL NIPPLE ASTM A312 304 316 NPT ASTM A733 SCH 40S / SCH 80S



| NOMINAL PIPE SIZE | OUTSIDE DIAMETER | SCH-40S | SCH-80S |
|---|---|---|---|
| | | Nominal Wall Thickness | Nominal Wall Thickness |
| inch | mm | mm | mm |
| 1/4 | 13.7 | 2.24 | 3.02 |
| 3/8 | 17.1 | 2.31 | 3.20 |
| 1/2 | 21.3 | 2.77 | 3.73 |
| 3/4 | 26.7 | 2.87 | 3.91 |
| 1 | 33.4 | 3.38 | 4.55 |
| 1 1/4 | 42.2 | 3.56 | 4.85 |
| 1 1/2 | 48.3 | 3.68 | 5.08 |
| 2 | 60.3 | 3.91 | 5.54 |
| 2 1/2 | 73.0 | 5.16 | 7.01 |
| 3 | 88.9 | 5.49 | 7.62 |
| 3 1/2 | 101.6 | 5.74 | 8.08 |
| 4 | 114.3 | 6.02 | 8.56 |
| 5 | 141.3 | 6.55 | 9.53 |
| 6 | 168.3 | 7.11 | 10.97 |
| 8 | 219.1 | 8.18 | 12.70 |
| 10 | 273.0 | 9.27 | 12.70 |
| 12 | 323.8 | 9.53 | 12.70 |

## Standards

Threaded NPT ASME/ANSI B1.20.1
Material ASTM A312
For nipples ASTM A733

## Tolerances

Nipples with lengths up trough 12 inch (304.8 mm) log shall have a length tolerance of +- 1/6 inch (1.6mm). Nipples over 12 inch long shave have a tolerance of +- 1/8 inch (3.2 mm).
Minimun wall thickness -12.5% from nominal.

## PIPE NIPPLES BY LENGTH AND NOMINAL PIPE SIZE

| TYPE OF NIPPLE | NPS Designator | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 8 | 10 | 12 |
| | Pipe Nipple Lengths, inch | | | | | | | | | | | | | | | | | |
| CLOSE | 3/4 | 7/8 | 1 | 1 1/8 | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 2 | 2 1/2 | 2 5/8 | 2 3/4 | 2 7/8 | 3 | 3 1/8 | 3 1/2 | 3 7/8 | 4 1/2 |
| LENGTH OF NIPPLE | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | | | | | | | | | | | | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | |
| | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | | | | | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

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