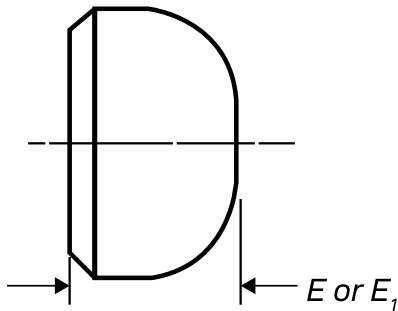




\* Reference photo



**Material:** ASTM A403 316L  
**Design:** ASME / ANSI B16.9  
**Ends:** Butt Welded  
**Schedule:** SCH 10S

### TENSILE REQUIREMENTS

| MATERIAL | Yield Strength, min, ksi [MPa] | Tensile Strength, min, ksi [MPa] |
|----------|--------------------------------|----------------------------------|
| 316L     | 25 [170]                       | 70 [485]                         |

### PERMITTED VARIATIONS IN WALL THICKNESS

| NPS Designator                     | Tolerance, % from Nominal |       |
|------------------------------------|---------------------------|-------|
|                                    | Over                      | Under |
| 1/8 to 2 1/2 incl., all t/D ratios | 20.0                      | 12.5  |
| 3 to 18 incl., t/D up to 5 % incl. | 22.5                      | 12.5  |
| 3 to 18 incl., t/D > 5%            | 15.0                      | 12.5  |

where:

t = Nominal Wall Thickness

D = Ordered Outside Diameter

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### DIMENSIONS

| Nominal Pipe Size (NPS) | Outside Diameter at Bevel, mm (in.) | Length, E, mm (in.) | Limiting Wall Thickness for Length, E, mm (in.) | Length, E, mm (in.) [Note (2)] | Nominal Wall Thickness, mm (in.) | Approx. Weight, kg |
|-------------------------|-------------------------------------|---------------------|---|--------------------------------|----------------------------------|--------------------|
| 1/2                     | 21.3 (0.84)                         | 25 (1.00)           | 4.57 (0.18)                                     | 25 (1.00)                      | 2.11 (0.083)                     | 0.03               |
| 3/4                     | 26.7 (1.05)                         | 25 (1.00)           | 3.81 (0.15)                                     | 25 (1.00)                      | 2.11 (0.083)                     | 0.05               |
| 1                       | 33.4 (1.32)                         | 38 (1.50)           | 4.57 (0.18)                                     | 38 (1.50)                      | 2.77 (0.109)                     | 0.08               |
| 1 1/4                   | 42.2 (1.66)                         | 38 (1.50)           | 4.83 (0.19)                                     | 38 (1.50)                      | 2.77 (0.109)                     | 0.11               |
| 1 1/2                   | 48.3 (1.90)                         | 38 (1.50)           | 5.08 (0.20)                                     | 38 (1.50)                      | 2.77 (0.109)                     | 0.13               |
| 2                       | 60.3 (2.38)                         | 38 (1.50)           | 5.59 (0.22)                                     | 44 (1.75)                      | 2.77 (0.109)                     | 0.25               |
| 2 1/2                   | 73.0 (2.88)                         | 38 (1.50)           | 7.11 (0.28)                                     | 51 (2.00)                      | 3.05 (0.12)                      | 0.25               |
| 3                       | 88.9 (3.50)                         | 51 (2.00)           | 7.62 (0.30)                                     | 64 (2.50)                      | 3.05 (0.12)                      | 0.39               |
| 3 1/2                   | 101.6 (4.00)                        | 64 (2.50)           | 8.13 (0.32)                                     | 76 (3.00)                      | 3.05 (0.12)                      | -                  |
| 4                       | 114.3 (4.50)                        | 64 (2.50)           | 8.64 (0.34)                                     | 76 (3.00)                      | 3.05 (0.12)                      | 0.68               |
| 5                       | 141.3 (5.56)                        | 76 (3.00)           | 9.65 (0.38)                                     | 89 (3.50)                      | 3.4 (0.134)                      | 1.11               |
| 6                       | 168.3 (6.62)                        | 89 (3.50)           | 10.92 (0.43)                                    | 102 (4.00)                     | 3.4 (0.134)                      | 1.42               |
| 8                       | 219.1 (8.62)                        | 102 (4.00)          | 12.70 (0.50)                                    | 127 (5.00)                     | 3.76 (0.148)                     | 3.01               |
| 10                      | 273.0 (10.75)                       | 127 (5.00)          | 12.70 (0.50)                                    | 152 (6.00)                     | 4.19 (0.165)                     | 6                  |
| 12                      | 323.8 (12.75)                       | 152 (6.00)          | 12.70 (0.50)                                    | 178 (7.00)                     | 4.57 (0.18)                      | 7.8                |
| 14                      | 355.6 (14.00)                       | 165 (6.50)          | 12.70 (0.50)                                    | 191 (7.50)                     | 4.78 (0.188)                     | -                  |
| 16                      | 406.4 (16.00)                       | 178 (7.00)          | 12.70 (0.50)                                    | 203 (8.00)                     | 4.78 (0.188)                     | -                  |

NOTES:

(1) Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness for Length, E."

(2) Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness for Length, E" for NPS 24 and smaller.

\* Conversion equivalents are approximate. Reference weights.

\* Photos and reference data. Reference weights. We accept no liability for incorrect uses or misinterpretations of this data.

