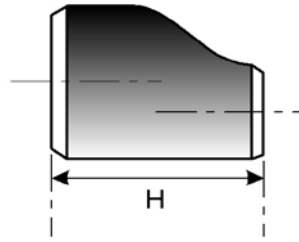
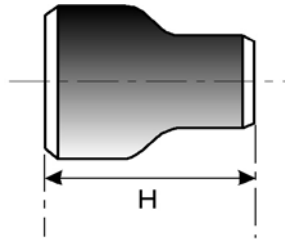


Dimensions of Reducers to ASME B16.9



| Nominal Pipe Size NPS | O.D. at Bevel | | End to End H |
|--------------------------------|---------------|--------------|-----------------------|
| | Large End | Small End | |
| 3/4 x 1/2 | 1.05 | 0.84 | 1.50 |
| 3/4 x 3/8 | 1.05 | 0.68 | 1.50 |
| 1 x 3/4 | 1.32 | 1.05 | 2.00 |
| 1 x 1/2 | 1.32 | 0.84 | 2.00 |
| 1 1/4 x 1 | 1.66 | 1.32 | 2.00 |
| 1 1/4 x 3/4 | 1.66 | 1.05 | 2.00 |
| 1 1/4 x 1/2 | 1.66 | 0.84 | 2.00 |
| 1 1/2 x 1 1/4 | 1.90 | 1.66 | 2.50 |
| 1 1/2 x 1 | 1.90 | 1.32 | 2.50 |
| 1 1/2 x 3/4 | 1.90 | 1.05 | 2.50 |
| 1 1/2 x 1/2 | 1.90 | 0.84 | 2.50 |
| 2 x 1 1/2 | 2.38 | 1.90 | 3.00 |
| 2 x 1 1/4 | 2.38 | 1.66 | 3.00 |
| 2 x 1 | 2.38 | 1.32 | 3.00 |
| 2 x 3/4 | 2.38 | 1.05 | 3.00 |
| 2 1/2 x 2 | 2.88 | 2.38 | 3.50 |
| 2 1/2 x 1 1/2 | 2.88 | 1.90 | 3.50 |
| 2 1/2 x 1 1/4 | 2.88 | 1.66 | 3.50 |
| 2 1/2 x 1 | 2.88 | 1.32 | 3.50 |
| 3 x 2 1/2 | 3.50 | 2.88 | 3.50 |
| 3 x 2 | 3.50 | 2.38 | 3.50 |
| 3 x 1 1/2 | 3.50 | 1.90 | 3.50 |
| 3 x 1 1/4 | 3.50 | 1.66 | 3.50 |
| 3 1/2 x 3 | 4.00 | 3.50 | 4.00 |
| 3 1/2 x 2 1/2 | 4.00 | 2.88 | 4.00 |
| 3 1/2 x 2 | 4.00 | 2.38 | 4.00 |
| 3 1/2 x 1 1/2 | 4.00 | 1.90 | 4.00 |
| 3 1/2 x 1 1/4 | 4.00 | 1.66 | 4.00 |
| 4 x 3 1/2 | 4.50 | 4.00 | 4.00 |
| 4 x 3 | 4.50 | 3.50 | 4.00 |
| 4 x 2 1/2 | 4.50 | 2.88 | 4.00 |
| 4 x 2 | 4.50 | 2.38 | 4.00 |
| 4 x 1 1/2 | 4.50 | 1.90 | 4.00 |

All dimensions are given in inches.

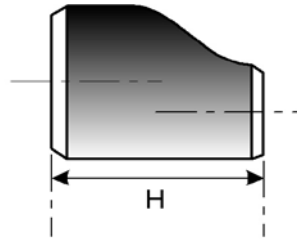
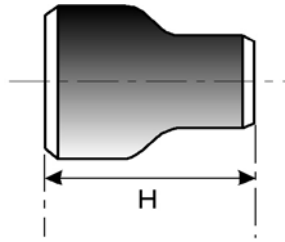
| Nominal Pipe Size NPS | O.D. at Bevel | | End to End H |
|--------------------------------|---------------|--------------|-----------------------|
| | Large End | Small End | |
| 5 x 4 | 5.56 | 4.50 | 5.00 |
| 5 x 3 1/2 | 5.56 | 4.00 | 5.00 |
| 5 x 3 | 5.56 | 3.50 | 5.00 |
| 5 x 2 1/2 | 5.56 | 2.88 | 5.00 |
| 5 x 2 | 5.56 | 2.38 | 5.00 |
| 6 x 5 | 6.62 | 5.56 | 5.50 |
| 6 x 4 | 6.62 | 4.50 | 5.50 |
| 6 x 3 1/2 | 6.62 | 4.00 | 5.50 |
| 6 x 3 | 6.62 | 3.50 | 5.50 |
| 6 x 2 1/2 | 6.62 | 2.88 | 5.50 |
| 8 x 6 | 8.62 | 6.62 | 6.00 |
| 8 x 5 | 8.62 | 5.56 | 6.00 |
| 8 x 4 | 8.62 | 4.50 | 6.00 |
| 8 x 3 1/2 | 8.62 | 4.00 | 6.00 |
| 10 x 8 | 10.75 | 8.62 | 7.00 |
| 10 x 6 | 10.75 | 6.62 | 7.00 |
| 10 x 5 | 10.75 | 5.56 | 7.00 |
| 10 x 4 | 10.75 | 4.50 | 7.00 |
| 12 x 10 | 12.75 | 10.75 | 8.00 |
| 12 x 8 | 12.75 | 8.62 | 8.00 |
| 12 x 6 | 12.75 | 6.62 | 8.00 |
| 12 x 5 | 12.75 | 5.56 | 8.00 |
| 14 x 12 | 14.00 | 12.75 | 13.00 |
| 14 x 10 | 14.00 | 10.75 | 13.00 |
| 14 x 8 | 14.00 | 8.62 | 13.00 |
| 14 x 6 | 14.00 | 6.62 | 13.00 |
| 16 x 14 | 16.00 | 14.00 | 14.00 |
| 16 x 12 | 16.00 | 12.75 | 14.00 |
| 16 x 10 | 16.00 | 10.75 | 14.00 |
| 16 x 8 | 16.00 | 8.62 | 14.00 |
| 18 x 16 | 18.00 | 16.00 | 15.00 |
| 18 x 14 | 18.00 | 14.00 | 15.00 |
| 18 x 12 | 18.00 | 12.75 | 15.00 |
| 18 x 10 | 18.00 | 10.75 | 15.00 |

While the illustration shows "bell shaped" reducers, the use of conical reducers is not prohibited.

Trans Am

Piping Products Ltd.

Dimensions of Reducers to ASME B16.9



| Nominal Pipe Size NPS | O.D. at Bevel | | End to End H |
|--------------------------------|---------------|--------------|-----------------------|
| | Large End | Small End | |
| 20 x 18 | 20.00 | 18.00 | 20.00 |
| 20 x 16 | 20.00 | 16.00 | 20.00 |
| 20 x 14 | 20.00 | 14.00 | 20.00 |
| 20 x 12 | 20.00 | 12.75 | 20.00 |
| 22 x 20 | 22.00 | 20.00 | 20.00 |
| 22 x 18 | 22.00 | 18.00 | 20.00 |
| 22 x 16 | 22.00 | 16.00 | 20.00 |
| 22 x 14 | 22.00 | 14.00 | 20.00 |
| 24 x 22 | 24.00 | 22.00 | 20.00 |
| 24 x 20 | 24.00 | 20.00 | 20.00 |
| 24 x 18 | 24.00 | 18.00 | 20.00 |
| 24 x 16 | 24.00 | 16.00 | 20.00 |
| 26 x 24 | 26.00 | 24.00 | 24.00 |
| 26 x 22 | 26.00 | 22.00 | 24.00 |
| 26 x 20 | 26.00 | 20.00 | 24.00 |
| 26 x 18 | 26.00 | 18.00 | 24.00 |
| 28 x 26 | 28.00 | 26.00 | 24.00 |
| 28 x 24 | 28.00 | 24.00 | 24.00 |
| 28 x 20 | 28.00 | 20.00 | 24.00 |
| 28 x 18 | 28.00 | 18.00 | 24.00 |
| 30 x 28 | 30.00 | 28.00 | 24.00 |
| 30 x 26 | 30.00 | 26.00 | 24.00 |
| 30 x 24 | 30.00 | 24.00 | 24.00 |
| 30 x 20 | 30.00 | 20.00 | 24.00 |
| 32 x 30 | 32.00 | 30.00 | 24.00 |
| 32 x 28 | 32.00 | 28.00 | 24.00 |
| 32 x 26 | 32.00 | 26.00 | 24.00 |
| 32 x 24 | 32.00 | 24.00 | 24.00 |
| 34 x 32 | 34.00 | 32.00 | 24.00 |
| 34 x 30 | 34.00 | 30.00 | 24.00 |
| 34 x 26 | 34.00 | 26.00 | 24.00 |
| 34 x 24 | 34.00 | 24.00 | 24.00 |

While the illustration shows "bell shaped" reducers, the use of conical reducers is not prohibited.

| Nominal Pipe Size NPS | O.D. at Bevel | | End to End H |
|--------------------------------|---------------|--------------|-----------------------|
| | Large End | Small End | |
| 36 x 34 | 36.00 | 34.00 | 24.00 |
| 36 x 32 | 36.00 | 32.00 | 24.00 |
| 36 x 30 | 36.00 | 30.00 | 24.00 |
| 36 x 26 | 36.00 | 26.00 | 24.00 |
| 36 x 24 | 36.00 | 24.00 | 24.00 |
| 38 x 36 | 38.00 | 36.00 | 24.00 |
| 38 x 34 | 38.00 | 34.00 | 24.00 |
| 38 x 32 | 38.00 | 32.00 | 24.00 |
| 38 x 30 | 38.00 | 30.00 | 24.00 |
| 38 x 28 | 38.00 | 28.00 | 24.00 |
| 38 x 26 | 38.00 | 26.00 | 24.00 |
| 40 x 38 | 40.00 | 38.00 | 24.00 |
| 40 x 36 | 40.00 | 36.00 | 24.00 |
| 40 x 34 | 40.00 | 34.00 | 24.00 |
| 40 x 32 | 40.00 | 32.00 | 24.00 |
| 40 x 30 | 40.00 | 30.00 | 24.00 |
| 42 x 40 | 42.00 | 40.00 | 24.00 |
| 42 x 38 | 42.00 | 38.00 | 24.00 |
| 42 x 36 | 42.00 | 36.00 | 24.00 |
| 42 x 34 | 42.00 | 34.00 | 24.00 |
| 42 x 32 | 42.00 | 32.00 | 24.00 |
| 42 x 30 | 42.00 | 30.00 | 24.00 |
| 44 x 42 | 44.00 | 42.00 | 24.00 |
| 44 x 40 | 44.00 | 40.00 | 24.00 |
| 44 x 38 | 44.00 | 38.00 | 24.00 |
| 44 x 36 | 44.00 | 36.00 | 24.00 |
| 46 x 44 | 46.00 | 44.00 | 28.00 |
| 46 x 42 | 46.00 | 42.00 | 28.00 |
| 46 x 40 | 46.00 | 40.00 | 28.00 |
| 46 x 38 | 46.00 | 38.00 | 28.00 |
| 48 x 46 | 48.00 | 46.00 | 28.00 |
| 48 x 44 | 48.00 | 44.00 | 28.00 |
| 48 x 42 | 48.00 | 42.00 | 28.00 |
| 48 x 40 | 48.00 | 40.00 | 28.00 |

All dimensions are given in inches.

Trans Am

Piping Products Ltd.