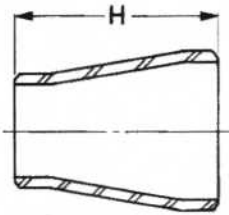


reducers

concentric



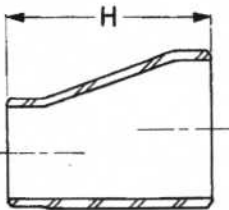
dimensions: All dimensions in inches and are in accordance with ASA B16.9 and MSS-SP-48 where established.

pressure-temperature rating: Identical with those of seamless pipe of same size, thickness, and material grade.

footnotes: *Pipe schedule numbers in accordance with ASA B36.10.

▲This size and thickness does not correspond with any schedule number.

eccentric



| | eccentric | concentric |
|----------------------------|-----------|------------|
| standard | | |
| extra strong | | |
| schedule 160 | | |
| double extra strong | | |

| nominal pipe size | length H | weight (approx) lb: concentric or eccentric | | | |
|-------------------|----------|---|--------------|--------------|---------------------|
| | | standard | extra strong | schedule 160 | double extra strong |
| 3/4 x 1/2 | 1 1/2 | .2 | .3 | .3 | ..... |
| | 1 1/2 | .2 | .3 | .3 | .4 |
| 1 x 1/2 | 2 | .3 | .4 | .4 | .4 |
| | 2 | .3 | .4 | .5 | .5 |
| | 2 | .3 | .4 | .5 | .5 |
| 1 1/4 x 3/4 | 2 | .5 | .5 | .6 | .7 |
| | 2 | .5 | .5 | .6 | .7 |
| | 2 | .5 | .6 | .7 | .8 |
| 1 1/2 x 1 | 2 1/2 | .5 | .6 | .8 | 1.0 |
| | 2 1/2 | .5 | .6 | .9 | 1.0 |
| | 2 1/2 | .6 | .7 | .9 | 1.0 |
| | 2 1/2 | .6 | .8 | 1.0 | 1.2 |
| 2 x 1 1/4 | 3 | .8 | 1.0 | 1.4 | 1.7 |
| | 3 | .9 | 1.0 | 1.4 | 1.6 |
| | 3 | .9 | 1.1 | 1.4 | 1.8 |
| | 3 | .9 | 1.2 | 1.6 | 1.9 |
| 2 1/2 x 1 1/2 | 3 1/2 | 1.3 | 1.7 | 2.3 | 3.0 |
| | 3 1/2 | 1.4 | 1.7 | 2.2 | 3.1 |
| | 3 1/2 | 1.5 | 1.8 | 2.2 | 3.0 |
| | 3 1/2 | 1.6 | 2.0 | 2.7 | 3.3 |
| 3 x 2 | 3 1/2 | 1.7 | 2.2 | 3.1 | 4.1 |
| | 3 1/2 | 1.8 | 2.1 | 3.1 | 4.0 |
| | 3 1/2 | 2.0 | 2.6 | 3.4 | 4.0 |
| | 3 1/2 | 2.1 | 2.8 | 3.7 | 4.6 |

reducers

| nominal pipe size | length H | weight (approx) lb: concentric or eccentric | | | |
|-------------------|----------|---|--------------|--------------|---------------------|
| | | standard | extra strong | schedule 160 | double extra strong |
| 1¼ | 4 | 2.3 | 3.2 | ..... | 5.8 |
| 1½ | 4 | 2.5 | 3.1 | ..... | 5.8 |
| 3½ x 2 | 4 | 2.7 | 3.5 | ..... | 5.7 |
| x 2½ | 4 | 2.9 | 3.8 | ..... | 5.9 |
| 3 | 4 | 3.0 | 4.0 | ..... | 6.8 |
| 1½ | 4 | 2.7 | 3.8 | 5.6 | 6.6 |
| 2 | 4 | 3.1 | 3.9 | 5.6 | 6.6 |
| 4 x 2½ | 4 | 3.3 | 4.4 | 5.5 | 6.3 |
| 3 | 4 | 3.5 | 4.7 | 6.5 | 7.7 |
| 3½ | 4 | 3.6 | 4.8 | ..... | 8.2 |
| 2 | 5 | 5.0 | 6.6 | 10.6 | 12.2 |
| 2½ | 5 | 5.5 | 7.2 | 10.2 | 11.7 |
| 5 x 3 | 5 | 5.7 | 7.8 | 10.2 | 11.1 |
| 3½ | 5 | 5.8 | 8.0 | ..... | 13.3 |
| 4 | 5 | 5.9 | 8.3 | 12.4 | 14.2 |
| 2½ | 5½ | 7.6 | 9.9 | 15.8 | 18.8 |
| 3 | 5½ | 8.0 | 11.1 | 15.1 | 18.5 |
| 6 x 3½ | 5½ | 8.1 | 11.6 | ..... | 17.3 |
| 4 | 5½ | 8.1 | 12.0 | 17.2 | 19.1 |
| 5 | 5½ | 8.6 | 12.6 | 18.8 | 21.4 |
| 3½ | 6 | 12.8 | 16.1 | ..... | 27.9 |
| 4 | 6 | 13.1 | 18.6 | 26.9 | 25.7 |
| 8 x 5 | 6 | 13.4 | 19.5 | 29.6 | 29.2 |
| 6 | 6 | 13.9 | 20.4 | 32.1 | 32.7 |
| 4 | 7 | 21.1 | 25.3 | 50 | ..... |
| 5 | 7 | 21.8 | 28.7 | 48 | ..... |
| 10 x 6 | 7 | 22.3 | 29.8 | 50 | ..... |
| .8 | 7 | 23.2 | 31.4 | 58 | ..... |
| 5 | 8 | 30.5 | 39.1 | 78 | ..... |
| 6 | 8 | 31.1 | 40.6 | 75 | ..... |
| 12 x 8 | 8 | 32.1 | 37.4 | 86 | ..... |
| 10 | 8 | 33.4 | 43.6 | 94 | ..... |
| 6 | 13 | 55 | 74 | ..... | ..... |
| 8 | 13 | 57 | 76 | ..... | ..... |
| 14 x 10 | 13 | 60 | 79 | ..... | ..... |
| 12 | 13 | 63 | 83 | ..... | ..... |
| 8 | 14 | 70 | 93 | ..... | ..... |
| 10 | 14 | 72 | 96 | ..... | ..... |
| 16 x 12 | 14 | 75 | 99 | ..... | ..... |
| 14 | 14 | 77 | 102 | ..... | ..... |
| 10 | 15 | 86 | 114 | ..... | ..... |
| 12 | 15 | 89 | 118 | ..... | ..... |
| 18 x 14 | 15 | 90 | 120 | ..... | ..... |
| 16 | 15 | 94 | 123 | ..... | ..... |
| 12 | 20 | 134 | 176 | ..... | ..... |
| 14 | 20 | 135 | 179 | ..... | ..... |
| 20 x 16 | 20 | 138 | 182 | ..... | ..... |
| 18 | 20 | 142 | 186 | ..... | ..... |
| 14 | 20 | 148 | 195 | ..... | ..... |
| 16 | 20 | 151 | 198 | ..... | ..... |
| 22 x 18 | 20 | 154 | 202 | ..... | ..... |
| 20 | 20 | 157 | 207 | ..... | ..... |

| nominal pipe size | length H | weight (approx) lb | |
|-------------------|----------|--------------------|---------------|
| | | standard□ | extra strong□ |
| 14 | 20 | 158 | 209 |
| 16 | 20 | 160 | 211 |
| 24 x 18 | 20 | 163 | 215 |
| 20 | 20 | 167 | 220 |
| 18 | 24 | 200 | 272 |
| 20 | 24 | 200 | 272 |
| 26 x 22 | 24 | 200 | 272 |
| 24 | 24 | 200 | 272 |
| 18 | 24 | 210 | 290 |
| 20 | 24 | 210 | 290 |
| 28 x 24 | 24 | 210 | 290 |
| 26 | 24 | 210 | 290 |
| 20 | 24 | 220 | 315 |
| 24 | 24 | 220 | 315 |
| 30 x 26 | 24 | 220 | 315 |
| 28 | 24 | 220 | 315 |
| 24 | 24 | 255 | 335 |
| | | 221□ | 293□ |
| 26 | 24 | 255 | 335 |
| 32 x 26 | 24 | 229□ | 304□ |
| 28 | 24 | 255 | 335 |
| | | 237□ | 315□ |
| 30 | 24 | 255 | 335 |
| | | 245□ | 325□ |
| 24 | 24 | 270 | 355 |
| | | 229□ | 304□ |
| 26 | 24 | 270 | 355 |
| 34 x 26 | 24 | 237□ | 315□ |
| 30 | 24 | 270 | 355 |
| | | 253□ | 336□ |
| 32 | 24 | 270 | 355 |
| | | 261□ | 347□ |
| 24 | 24 | 340 | 360 |
| | | 237□ | 315□ |
| 26 | 24 | 340 | 360 |
| | | 245□ | 325□ |
| 36 x 30 | 24 | 340 | 360 |
| | | 261□ | 347□ |
| 32 | 24 | 340 | 360 |
| | | 269□ | 357□ |
| 34 | 24 | 340 | 360 |
| | | 277□ | 368□ |
| 24 | 24 | 260 | 350 |
| 26 | 24 | 270 | 360 |
| 30 | 24 | 285 | 380 |
| 42 x 32 | 24 | 295 | 390 |
| 34 | 24 | 300 | 400 |
| 36 | 24 | 310 | 410 |