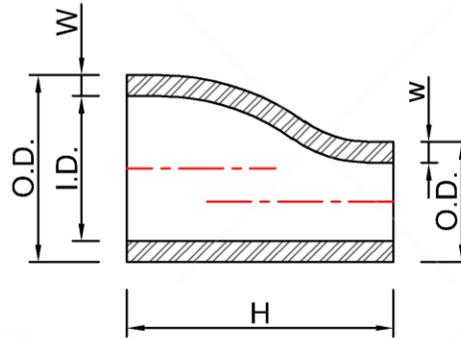


Project Name: _____

Job #: _____

ECCENTRIC REDUCERS**ASME B16.9 & ASTM A234 WPB**Source: Import Domestic Approved**DIMENSIONS**

UOM: Inches/LBS

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (STD) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| ¾ x ½ | 1.05 | 0.824 | 0.113 | 0.84 | 0.622 | 0.109 | 1.50 | 40 | 0.21 |
| 1 x ¾ | 1.32 | 1.049 | 0.133 | 1.05 | 0.824 | 0.113 | 2.00 | 40 | 0.36 |
| 1 x ½ | 1.32 | 1.049 | 0.133 | 0.84 | 0.622 | 0.109 | 2.00 | 40 | 0.36 |
| 1 ¼ x 1 | 1.66 | 1.380 | 0.140 | 1.32 | 1.054 | 0.133 | 2.00 | 40 | 0.48 |
| 1 ¼ x ¾ | 1.66 | 1.380 | 0.140 | 1.05 | 0.824 | 0.113 | 2.00 | 40 | 0.42 |
| 1 ¼ x ½ | 1.66 | 1.380 | 0.140 | 0.84 | 0.622 | 0.109 | 2.00 | 40 | 0.42 |
| 1 ½ x 1 ¼ | 1.90 | 1.610 | 0.145 | 1.66 | 1.380 | 0.140 | 2.50 | 40 | 0.65 |
| 1 ½ x 1 | 1.90 | 1.610 | 0.145 | 1.32 | 1.054 | 0.133 | 2.50 | 40 | 0.57 |
| 1 ½ x ¾ | 1.90 | 1.610 | 0.145 | 1.05 | 0.824 | 0.113 | 2.50 | 40 | 0.56 |
| 1 ½ x ½ | 1.90 | 1.610 | 0.145 | 0.84 | 0.622 | 0.109 | 2.50 | 40 | 0.56 |
| 2 x 1 ½ | 2.38 | 2.067 | 0.154 | 1.90 | 1.610 | 0.145 | 3.00 | 40 | 0.94 |
| 2 x 1 ¼ | 2.38 | 2.067 | 0.154 | 1.66 | 1.380 | 0.140 | 3.00 | 40 | 0.88 |
| 2 x 1 | 2.38 | 2.067 | 0.154 | 1.32 | 1.054 | 0.133 | 3.00 | 40 | 0.81 |
| 2 x ¾ | 2.38 | 2.067 | 0.154 | 1.05 | 0.824 | 0.113 | 3.00 | 40 | 0.74 |
| 2 ½ x 2 | 2.88 | 2.469 | 0.203 | 2.38 | 2.072 | 0.154 | 3.50 | 40 | 1.60 |
| 2 ½ x 1 ½ | 2.88 | 2.469 | 0.203 | 1.90 | 1.610 | 0.145 | 3.50 | 40 | 1.50 |
| 2 ½ x 1 ¼ | 2.88 | 2.469 | 0.203 | 1.66 | 1.380 | 0.140 | 3.50 | 40 | 1.40 |
| 2 ½ x 1 | 2.88 | 2.469 | 0.203 | 1.32 | 1.054 | 0.133 | 3.50 | 40 | 1.30 |
| 3 x 2 ½ | 3.50 | 3.068 | 0.216 | 2.88 | 2.474 | 0.203 | 3.50 | 40 | 2.20 |
| 3 x 2 | 3.50 | 3.068 | 0.216 | 2.38 | 2.072 | 0.154 | 3.50 | 40 | 2.00 |
| 3 x 1 ½ | 3.50 | 3.068 | 0.216 | 1.90 | 1.610 | 0.145 | 3.50 | 40 | 1.90 |
| 3 x 1 ¼ | 3.50 | 3.068 | 0.216 | 1.66 | 1.380 | 0.140 | 3.50 | 40 | 1.80 |
| 3 x 1 | 3.50 | 3.068 | 0.216 | 1.32 | 1.054 | 0.133 | 3.50 | 40 | 1.70 |

Project Name: _____

Job #: _____

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (STD) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 3 ½ x 3 | 4.00 | 3.548 | 0.226 | 3.50 | 3.068 | 0.216 | 4.00 | 40 | 2.80 |
| 3 ½ x 2 ½ | 4.00 | 3.548 | 0.226 | 2.88 | 2.474 | 0.203 | 4.00 | 40 | 2.70 |
| 3 ½ x 2 | 4.00 | 3.548 | 0.226 | 2.38 | 2.072 | 0.154 | 4.00 | 40 | 2.60 |
| 3 ½ x 1 ½ | 4.00 | 3.548 | 0.226 | 1.90 | 1.610 | 0.145 | 4.00 | 40 | 2.60 |
| 3 ½ x 1 ¼ | 4.00 | 3.548 | 0.226 | 1.66 | 1.380 | 0.140 | 4.00 | 40 | 2.50 |
| 4 x 3 ½ | 4.50 | 4.026 | 0.237 | 4.00 | 3.548 | 0.226 | 4.00 | 40 | 3.50 |
| 4 x 3 | 4.50 | 4.026 | 0.237 | 3.50 | 3.068 | 0.216 | 4.00 | 40 | 3.30 |
| 4 x 2 ½ | 4.50 | 4.026 | 0.237 | 2.88 | 2.474 | 0.203 | 4.00 | 40 | 3.20 |
| 4 x 2 | 4.50 | 4.026 | 0.237 | 2.38 | 2.072 | 0.154 | 4.00 | 40 | 3.10 |
| 4 x 1 ½ | 4.50 | 4.026 | 0.237 | 1.90 | 1.610 | 0.145 | 4.00 | 40 | 3.00 |
| 4 x 1 ¼ | 4.50 | 4.026 | 0.237 | 1.66 | 1.380 | 0.140 | 4.00 | 40 | 3.00 |
| 4 x 1 | 4.50 | 4.026 | 0.237 | 1.32 | 1.054 | 0.133 | 4.00 | 40 | 2.80 |
| 5 x 4 | 5.56 | 5.047 | 0.258 | 4.50 | 4.026 | 0.237 | 5.00 | 40 | 5.50 |
| 5 x 3 ½ | 5.56 | 5.047 | 0.258 | 4.00 | 3.548 | 0.226 | 5.00 | 40 | 5.30 |
| 5 x 3 | 5.56 | 5.047 | 0.258 | 3.50 | 3.068 | 0.216 | 5.00 | 40 | 5.10 |
| 5 x 2 ½ | 5.56 | 5.047 | 0.258 | 2.88 | 2.474 | 0.203 | 5.00 | 40 | 4.80 |
| 5 x 2 | 5.56 | 5.047 | 0.258 | 2.38 | 2.072 | 0.154 | 5.00 | 40 | 4.70 |
| 6 x 5 | 6.62 | 6.065 | 0.280 | 5.56 | 5.044 | 0.258 | 5.50 | 40 | 7.60 |
| 6 x 4 | 6.62 | 6.065 | 0.280 | 4.50 | 4.026 | 0.237 | 5.50 | 40 | 7.40 |
| 6 x 3 ½ | 6.62 | 6.065 | 0.280 | 4.00 | 3.548 | 0.226 | 5.50 | 40 | 7.10 |
| 6 x 3 | 6.62 | 6.065 | 0.280 | 3.50 | 3.068 | 0.216 | 5.50 | 40 | 6.90 |
| 6 x 2 ½ | 6.62 | 6.065 | 0.280 | 2.88 | 2.474 | 0.203 | 5.50 | 40 | 6.60 |
| 6 x 2 | 6.62 | 6.065 | 0.280 | 2.38 | 2.072 | 0.154 | 5.50 | 40 | 6.50 |
| 8 x 6 | 8.62 | 7.981 | 0.322 | 6.62 | 6.060 | 0.280 | 6.00 | 40 | 12.30 |
| 8 x 5 | 8.62 | 7.981 | 0.322 | 5.56 | 5.044 | 0.258 | 6.00 | 40 | 11.50 |
| 8 x 4 | 8.62 | 7.981 | 0.322 | 4.50 | 4.026 | 0.237 | 6.00 | 40 | 10.80 |
| 8 x 3 ½ | 8.62 | 7.981 | 0.322 | 4.00 | 3.548 | 0.226 | 6.00 | 40 | 10.60 |
| 8 x 3 | 8.62 | 7.981 | 0.322 | 3.50 | 3.068 | 0.216 | 6.00 | 40 | 9.80 |
| 10 x 8 | 10.75 | 10.020 | 0.365 | 8.62 | 7.976 | 0.322 | 7.00 | 40 | 22.10 |
| 10 x 6 | 10.75 | 10.020 | 0.365 | 6.62 | 6.060 | 0.280 | 7.00 | 40 | 20.70 |
| 10 x 5 | 10.75 | 10.020 | 0.365 | 5.56 | 5.044 | 0.258 | 7.00 | 40 | 19.50 |
| 10 x 4 | 10.75 | 10.020 | 0.365 | 4.50 | 4.026 | 0.237 | 7.00 | 40 | 18.40 |
| 12 x 10 | 12.75 | 12.000 | 0.375 | 10.75 | 10.020 | 0.365 | 8.00 | - | 32.40 |
| 12 x 8 | 12.75 | 12.000 | 0.375 | 8.62 | 7.976 | 0.322 | 8.00 | - | 30.50 |
| 12 x 6 | 12.75 | 12.000 | 0.375 | 6.62 | 6.060 | 0.280 | 8.00 | - | 29.50 |
| 12 x 5 | 12.75 | 12.000 | 0.375 | 5.56 | 5.044 | 0.258 | 8.00 | - | 27.80 |
| 12 x 4 | 12.75 | 12.000 | 0.375 | 4.50 | 4.026 | 0.237 | 8.00 | - | 26.20 |
| 14 x 12 | 14.00 | 13.250 | 0.375 | 12.75 | 12.000 | 0.375 | 13.00 | - | 63.10 |
| 14 x 10 | 14.00 | 13.250 | 0.375 | 10.75 | 10.020 | 0.365 | 13.00 | - | 61.40 |
| 14 x 8 | 14.00 | 13.250 | 0.375 | 8.62 | 7.976 | 0.322 | 13.00 | - | 60.00 |
| 14 x 6 | 14.00 | 13.250 | 0.375 | 6.62 | 6.060 | 0.280 | 13.00 | - | 59.20 |
| 16 x 14 | 16.00 | 15.250 | 0.375 | 16.00 | 15.250 | 0.375 | 14.00 | - | 75.40 |
| 16 x 12 | 16.00 | 15.250 | 0.375 | 14.00 | 13.250 | 0.375 | 14.00 | - | 72.70 |
| 16 x 10 | 16.00 | 15.250 | 0.375 | 12.75 | 12.000 | 0.364 | 14.00 | - | 71.10 |
| 16 x 8 | 16.00 | 15.250 | 0.375 | 10.75 | 10.020 | 0.322 | 14.00 | - | 69.40 |
| 16 x 6 | 16.00 | 15.250 | 0.375 | 8.62 | 7.976 | 0.280 | 14.00 | - | 67.40 |

FITTINGS ECCENTRIC RED.

Project Name: _____

Job #: _____

FITTINGS ECCENTRIC RED.

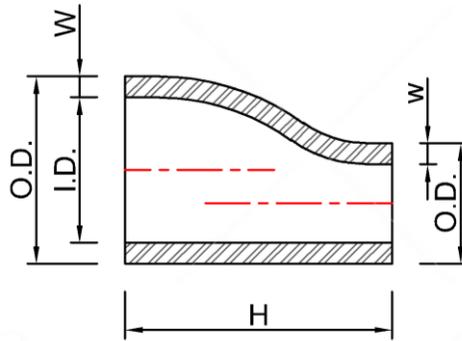
| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (STD) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 18 x 16 | 18.00 | 17.250 | 0.375 | 16.00 | 15.250 | 0.375 | 15.00 | - | 87.30 |
| 18 x 14 | 18.00 | 17.250 | 0.375 | 14.00 | 13.250 | 0.375 | 15.00 | - | 86.00 |
| 18 x 12 | 18.00 | 17.250 | 0.375 | 12.75 | 12.000 | 0.375 | 15.00 | - | 84.80 |
| 18 x 10 | 18.00 | 17.250 | 0.375 | 10.75 | 10.020 | 0.365 | 15.00 | - | 83.70 |
| 18 x 8 | 18.00 | 17.250 | 0.375 | 8.62 | 7.976 | 0.322 | 15.00 | - | 81.75 |
| 20 x 18 | 20.00 | 19.250 | 0.375 | 18.00 | 17.250 | 0.375 | 20.00 | - | 123.00 |
| 20 x 16 | 20.00 | 19.250 | 0.375 | 16.00 | 15.250 | 0.375 | 20.00 | - | 121.00 |
| 20 x 14 | 20.00 | 19.250 | 0.375 | 14.00 | 13.250 | 0.375 | 20.00 | - | 119.00 |
| 20 x 12 | 20.00 | 19.250 | 0.375 | 12.75 | 12.000 | 0.375 | 20.00 | - | 118.00 |
| 20 x 10 | 20.00 | 19.250 | 0.375 | 10.75 | 10.020 | 0.365 | 20.00 | - | 117.00 |
| 24 x 20 | 24.00 | 23.250 | 0.375 | 20.00 | 19.250 | 0.375 | 20.00 | - | 156.00 |
| 24 x 18 | 24.00 | 23.250 | 0.375 | 18.00 | 17.250 | 0.375 | 20.00 | - | 153.00 |
| 24 x 16 | 24.00 | 23.250 | 0.375 | 16.00 | 15.250 | 0.375 | 20.00 | - | 150.00 |
| 24 x 14 | 24.00 | 23.250 | 0.375 | 14.00 | 13.250 | 0.375 | 20.00 | - | 147.00 |
| 24 x 12 | 24.00 | 23.250 | 0.375 | 12.75 | 12.000 | 0.375 | 20.00 | - | 144.00 |
| 24 x 10 | 24.00 | 23.250 | 0.375 | 10.75 | 10.020 | 0.365 | 20.00 | - | 141.00 |
| 30 x 24 | 30.00 | 29.250 | 0.375 | 24.00 | 23.250 | 0.375 | 24.00 | - | 315.00 |
| 30 x 20 | 30.00 | 29.250 | 0.375 | 20.00 | 19.250 | 0.375 | 24.00 | - | 315.00 |
| 30 x 18 | 30.00 | 29.250 | 0.375 | 18.00 | 17.250 | 0.375 | 24.00 | - | 315.00 |
| 36 x 30 | 36.00 | 35.250 | 0.375 | 30.00 | 29.250 | 0.375 | 24.00 | - | 379.00 |
| 36 x 24 | 36.00 | 35.250 | 0.375 | 24.00 | 23.250 | 0.375 | 24.00 | - | 379.00 |
| 36 x 20 | 36.00 | 35.250 | 0.375 | 20.00 | 19.250 | 0.375 | 24.00 | - | 379.00 |
| 42 x 36 | 42.00 | 41.250 | 0.375 | 36.00 | 35.250 | 0.375 | 24.00 | - | 443.00 |
| 42 x 30 | 42.00 | 41.250 | 0.375 | 30.00 | 29.250 | 0.375 | 24.00 | - | 443.00 |
| 42 x 24 | 42.00 | 41.250 | 0.375 | 24.00 | 23.250 | 0.375 | 24.00 | - | 443.00 |
| 48 x 42 | 48.00 | 47.250 | 0.375 | 42.00 | 41.250 | 0.375 | 28.00 | - | 525.00 |
| 48 x 36 | 48.00 | 47.250 | 0.375 | 36.00 | 35.250 | 0.375 | 28.00 | - | 525.00 |
| 48 x 30 | 48.00 | 47.250 | 0.375 | 30.00 | 29.250 | 0.375 | 28.00 | - | 525.00 |
| 48 x 24 | 48.00 | 47.250 | 0.375 | 24.00 | 23.250 | 0.375 | 28.00 | - | 525.00 |



Project Name: _____
 Job #: _____

ECCENTRIC REDUCERS

ASME B16.9 & ASTM A234 WPB



Source: Import Domestic Approved

DIMENSIONS

UOM: Inches/LBS

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (XS) | APPROX WEIGHT |
|---------------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|--------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 3/4 x 1/2 | 1.05 | 0.742 | 0.154 | 0.84 | 0.546 | 0.147 | 1.50 | 80 | 0.25 |
| 1 x 3/4 | 1.32 | 0.957 | 0.179 | 1.05 | 0.742 | 0.154 | 2.00 | 80 | 0.43 |
| 1 x 1/2 | 1.32 | 0.957 | 0.179 | 0.84 | 0.546 | 0.147 | 2.00 | 80 | 0.42 |
| 1 1/4 x 1 | 1.66 | 1.278 | 0.191 | 1.32 | 0.957 | 0.179 | 2.00 | 80 | 0.57 |
| 1 1/4 x 3/4 | 1.66 | 1.278 | 0.191 | 1.05 | 0.742 | 0.154 | 2.00 | 80 | 0.53 |
| 1 1/4 x 1/2 | 1.66 | 1.278 | 0.191 | 0.84 | 0.546 | 0.147 | 2.00 | 80 | 0.50 |
| 1 1/2 x 1 1/4 | 1.90 | 1.500 | 0.200 | 1.66 | 1.278 | 0.191 | 2.50 | 80 | 0.78 |
| 1 1/2 x 1 | 1.90 | 1.500 | 0.200 | 1.32 | 0.957 | 0.179 | 2.50 | 80 | 0.72 |
| 1 1/2 x 3/4 | 1.90 | 1.500 | 0.200 | 1.05 | 0.742 | 0.154 | 2.50 | 80 | 0.65 |
| 1 1/2 x 1/2 | 1.90 | 1.500 | 0.200 | 0.84 | 0.546 | 0.147 | 2.50 | 80 | 0.65 |
| 2 x 1 1/2 | 2.38 | 1.944 | 0.218 | 1.90 | 1.500 | 0.200 | 3.00 | 80 | 1.20 |
| 2 x 1 1/4 | 2.38 | 1.944 | 0.218 | 1.66 | 1.278 | 0.191 | 3.00 | 80 | 1.10 |
| 2 x 1 | 2.38 | 1.944 | 0.218 | 1.32 | 0.957 | 0.179 | 3.00 | 80 | 1.00 |
| 2 x 3/4 | 2.38 | 1.944 | 0.218 | 1.05 | 0.742 | 0.154 | 3.00 | 80 | 0.94 |
| 2 1/2 x 2 | 2.88 | 2.323 | 0.276 | 2.38 | 1.944 | 0.218 | 3.50 | 80 | 2.10 |
| 2 1/2 x 1 1/2 | 2.88 | 2.323 | 0.276 | 1.90 | 1.500 | 0.200 | 3.50 | 80 | 1.90 |
| 2 1/2 x 1 1/4 | 2.88 | 2.323 | 0.276 | 1.66 | 1.278 | 0.191 | 3.50 | 80 | 1.70 |
| 2 1/2 x 1 | 2.88 | 2.323 | 0.276 | 1.32 | 0.957 | 0.179 | 3.50 | 80 | 1.50 |
| 3 x 2 1/2 | 3.50 | 2.900 | 0.300 | 2.88 | 2.323 | 0.276 | 3.50 | 80 | 2.80 |
| 3 x 2 | 3.50 | 2.900 | 0.300 | 2.38 | 1.939 | 0.218 | 3.50 | 80 | 2.60 |
| 3 x 1 1/2 | 3.50 | 2.900 | 0.300 | 1.90 | 1.500 | 0.200 | 3.50 | 80 | 2.40 |
| 3 x 1 1/4 | 3.50 | 2.900 | 0.300 | 1.66 | 1.278 | 0.191 | 3.50 | 80 | 2.30 |
| 3 x 1 | 3.50 | 2.900 | 0.300 | 1.32 | 0.957 | 0.179 | 3.50 | 80 | 2.20 |

FITTINGS ECCENTRIC RED.

Project Name: _____

Job #: _____

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (XS) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|--------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 3 ½ x 3 | 4.00 | 3.364 | 0.318 | 3.50 | 2.900 | 0.300 | 4.00 | 80 | 3.70 |
| 3 ½ x 2 ½ | 4.00 | 3.364 | 0.318 | 2.88 | 2.328 | 0.276 | 4.00 | 80 | 3.50 |
| 3 ½ x 2 | 4.00 | 3.364 | 0.318 | 2.38 | 1.944 | 0.218 | 4.00 | 80 | 3.30 |
| 3 ½ x 1 ½ | 4.00 | 3.364 | 0.318 | 1.90 | 1.500 | 0.200 | 4.00 | 80 | 3.20 |
| 3 ½ x 1 ¼ | 4.00 | 3.364 | 0.318 | 1.66 | 1.278 | 0.191 | 4.00 | 80 | 3.20 |
| 4 x 3 ½ | 4.50 | 3.826 | 0.337 | 4.00 | 3.364 | 0.318 | 4.00 | 80 | 4.90 |
| 4 x 3 | 4.50 | 3.826 | 0.337 | 3.50 | 2.900 | 0.300 | 4.00 | 80 | 4.70 |
| 4 x 2 ½ | 4.50 | 3.826 | 0.337 | 2.88 | 2.328 | 0.276 | 4.00 | 80 | 4.60 |
| 4 x 2 | 4.50 | 3.826 | 0.337 | 2.38 | 1.944 | 0.218 | 4.00 | 80 | 4.30 |
| 4 x 1 ½ | 4.50 | 3.826 | 0.337 | 1.90 | 1.500 | 0.200 | 4.00 | 80 | 4.20 |
| 4 x 1 ¼ | 4.50 | 3.826 | 0.337 | 1.66 | 1.278 | 0.191 | 4.00 | 80 | 4.10 |
| 4 x 1 | 4.50 | 3.826 | 0.337 | 1.32 | 0.962 | 0.179 | 4.00 | 80 | 4.00 |
| 5 x 4 | 5.56 | 4.810 | 0.375 | 4.50 | 3.826 | 0.337 | 5.00 | 80 | 7.50 |
| 5 x 3 ½ | 5.56 | 4.810 | 0.375 | 4.00 | 3.364 | 0.318 | 5.00 | 80 | 6.90 |
| 5 x 3 | 5.56 | 4.810 | 0.375 | 3.50 | 2.900 | 0.300 | 5.00 | 80 | 6.30 |
| 5 x 2 ½ | 5.56 | 4.810 | 0.375 | 2.88 | 2.328 | 0.276 | 5.00 | 80 | 6.10 |
| 5 x 2 | 5.56 | 4.810 | 0.375 | 2.38 | 1.944 | 0.218 | 5.00 | 80 | 6.00 |
| 6 x 5 | 6.62 | 5.756 | 0.432 | 5.56 | 4.810 | 0.375 | 5.50 | 80 | 11.50 |
| 6 x 4 | 6.62 | 5.756 | 0.432 | 4.50 | 3.826 | 0.337 | 5.50 | 80 | 10.70 |
| 6 x 3 ½ | 6.62 | 5.756 | 0.432 | 4.00 | 3.364 | 0.318 | 5.50 | 80 | 10.00 |
| 6 x 3 | 6.62 | 5.756 | 0.432 | 3.50 | 2.900 | 0.300 | 5.50 | 80 | 9.70 |
| 6 x 2 ½ | 6.62 | 5.756 | 0.432 | 2.88 | 2.328 | 0.276 | 5.50 | 80 | 9.10 |
| 6 x 2 | 6.62 | 5.756 | 0.432 | 2.38 | 1.944 | 0.218 | 5.50 | 80 | 8.60 |
| 8 x 6 | 8.62 | 7.620 | 0.500 | 6.62 | 5.756 | 0.432 | 6.00 | 80 | 18.80 |
| 8 x 5 | 8.62 | 7.620 | 0.500 | 5.56 | 4.810 | 0.375 | 6.00 | 80 | 17.60 |
| 8 x 4 | 8.62 | 7.620 | 0.500 | 4.50 | 3.826 | 0.337 | 6.00 | 80 | 17.00 |
| 8 x 3 ½ | 8.62 | 7.620 | 0.500 | 4.00 | 3.364 | 0.318 | 6.00 | 80 | 15.90 |
| 8 x 3 | 8.62 | 7.620 | 0.500 | 3.50 | 2.900 | 0.300 | 6.00 | 80 | 15.00 |
| 10 x 8 | 10.75 | 9.750 | 0.500 | 8.62 | 7.620 | 0.500 | 7.00 | - | 29.40 |
| 10 x 6 | 10.75 | 9.750 | 0.500 | 6.62 | 5.756 | 0.432 | 7.00 | - | 28.30 |
| 10 x 5 | 10.75 | 9.750 | 0.500 | 5.56 | 4.810 | 0.375 | 7.00 | - | 26.90 |
| 10 x 4 | 10.75 | 9.750 | 0.500 | 4.50 | 3.826 | 0.337 | 7.00 | - | 24.20 |
| 12 x 10 | 12.75 | 11.750 | 0.500 | 10.75 | 9.750 | 0.500 | 8.00 | - | 41.50 |
| 12 x 8 | 12.75 | 11.750 | 0.500 | 8.62 | 7.620 | 0.500 | 8.00 | - | 38.60 |
| 12 x 6 | 12.75 | 11.750 | 0.500 | 6.62 | 5.756 | 0.432 | 8.00 | - | 37.40 |
| 12 x 5 | 12.75 | 11.750 | 0.500 | 5.56 | 4.810 | 0.375 | 8.00 | - | 36.30 |
| 12 x 4 | 12.75 | 11.750 | 0.500 | 4.50 | 3.826 | 0.337 | 8.00 | - | 34.70 |
| 14 x 12 | 14.00 | 13.000 | 0.500 | 12.75 | 11.750 | 0.500 | 13.00 | - | 81.00 |
| 14 x 10 | 14.00 | 13.000 | 0.500 | 10.75 | 9.750 | 0.500 | 13.00 | - | 76.70 |
| 14 x 8 | 14.00 | 13.000 | 0.500 | 8.62 | 7.620 | 0.500 | 13.00 | - | 74.60 |
| 14 x 6 | 14.00 | 13.000 | 0.500 | 6.62 | 5.756 | 0.432 | 13.00 | - | 72.30 |
| 16 x 14 | 16.00 | 15.000 | 0.500 | 14.00 | 13.000 | 0.500 | 14.00 | - | 98.00 |
| 16 x 12 | 16.00 | 15.000 | 0.500 | 12.75 | 11.750 | 0.500 | 14.00 | - | 95.80 |
| 16 x 10 | 16.00 | 15.000 | 0.500 | 10.75 | 9.750 | 0.500 | 14.00 | - | 93.30 |
| 16 x 8 | 16.00 | 15.000 | 0.500 | 8.62 | 7.620 | 0.500 | 14.00 | - | 91.10 |
| 16 x 6 | 16.00 | 15.000 | 0.500 | 6.62 | 5.756 | 0.432 | 14.00 | - | 89.80 |

FITTINGS ECCENTRIC RED.

Project Name: _____

Job #: _____

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (XS) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|--------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 18 x 16 | 18.00 | 17.000 | 0.500 | 16.00 | 15.000 | 0.500 | 15.00 | - | 118.00 |
| 18 x 14 | 18.00 | 17.000 | 0.500 | 14.00 | 13.000 | 0.500 | 15.00 | - | 117.00 |
| 18 x 12 | 18.00 | 17.000 | 0.500 | 12.75 | 11.750 | 0.500 | 15.00 | - | 115.00 |
| 18 x 10 | 18.00 | 17.000 | 0.500 | 10.75 | 9.750 | 0.500 | 15.00 | - | 113.00 |
| 18 x 8 | 18.00 | 17.000 | 0.500 | 8.62 | 7.620 | 0.500 | 15.00 | - | 100.00 |
| 20 x 18 | 20.00 | 19.000 | 0.500 | 18.00 | 17.000 | 0.500 | 20.00 | - | 162.00 |
| 20 x 16 | 20.00 | 19.000 | 0.500 | 16.00 | 15.000 | 0.500 | 20.00 | - | 159.00 |
| 20 x 14 | 20.00 | 19.000 | 0.500 | 14.00 | 13.000 | 0.500 | 20.00 | - | 157.00 |
| 20 x 12 | 20.00 | 19.000 | 0.500 | 12.75 | 11.750 | 0.500 | 20.00 | - | 155.00 |
| 20 x 10 | 20.00 | 19.000 | 0.500 | 10.75 | 9.750 | 0.500 | 20.00 | - | 152.00 |
| 24 x 20 | 24.00 | 23.000 | 0.500 | 20.00 | 19.000 | 0.500 | 20.00 | - | 201.00 |
| 24 x 18 | 24.00 | 23.000 | 0.500 | 18.00 | 17.000 | 0.500 | 20.00 | - | 197.00 |
| 24 x 16 | 24.00 | 23.000 | 0.500 | 16.00 | 15.000 | 0.500 | 20.00 | - | 194.00 |
| 24 x 14 | 24.00 | 23.000 | 0.500 | 14.00 | 13.000 | 0.500 | 20.00 | - | 190.00 |
| 24 x 12 | 24.00 | 23.000 | 0.500 | 12.75 | 11.750 | 0.500 | 20.00 | - | 188.00 |
| 24 x 10 | 24.00 | 23.000 | 0.500 | 10.75 | 9.750 | 0.500 | 20.00 | - | 186.00 |
| 30 x 24 | 30.00 | 29.000 | 0.500 | 24.00 | 23.000 | 0.500 | 24.00 | - | 315.00 |
| 30 x 20 | 30.00 | 29.000 | 0.500 | 20.00 | 19.000 | 0.500 | 24.00 | - | 315.00 |
| 30 x 18 | 30.00 | 29.000 | 0.500 | 18.00 | 17.000 | 0.500 | 24.00 | - | 315.00 |
| 36 x 30 | 36.00 | 35.000 | 0.500 | 30.00 | 29.000 | 0.500 | 24.00 | - | 379.00 |
| 36 x 24 | 36.00 | 35.000 | 0.500 | 24.00 | 23.000 | 0.500 | 24.00 | - | 379.00 |
| 36 x 20 | 36.00 | 35.000 | 0.500 | 20.00 | 19.000 | 0.500 | 24.00 | - | 379.00 |
| 42 x 36 | 42.00 | 41.000 | 0.500 | 36.00 | 35.000 | 0.500 | 24.00 | - | 443.00 |
| 42 x 30 | 42.00 | 41.000 | 0.500 | 30.00 | 29.000 | 0.500 | 24.00 | - | 443.00 |
| 42 x 24 | 42.00 | 41.000 | 0.500 | 24.00 | 23.000 | 0.500 | 24.00 | - | 443.00 |
| 48 x 42 | 48.00 | 47.000 | 0.500 | 42.00 | 41.000 | 0.500 | 28.00 | - | 525.00 |
| 48 x 36 | 48.00 | 47.000 | 0.500 | 36.00 | 35.000 | 0.500 | 28.00 | - | 525.00 |
| 48 x 30 | 48.00 | 47.000 | 0.500 | 30.00 | 29.000 | 0.500 | 28.00 | - | 525.00 |
| 48 x 24 | 48.00 | 47.000 | 0.500 | 24.00 | 23.000 | 0.500 | 28.00 | - | 525.00 |

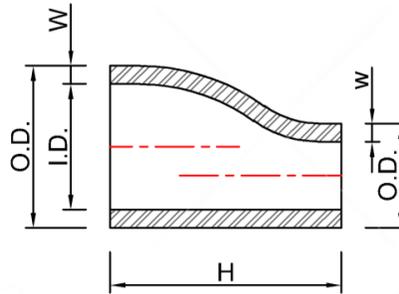
FITTINGS ECCENTRIC RED.

Project Name: _____

Job #: _____

ECCENTRIC REDUCERS

ASME B16.9 & ASTM A234 WPB



Source: Import Domestic Approved

DIMENSIONS

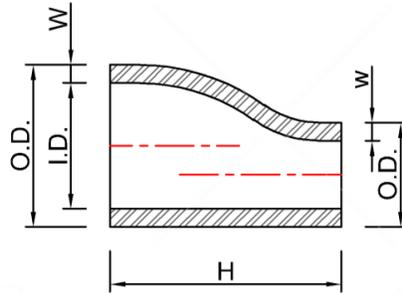
UOM: Inches/LBS

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (40) | APPROX WEIGHT |
|--|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|--------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| FOR DIMENSION SPECIFICATIONS ½" THROUGH 10", REFER TO SCHEDULE STD | | | | | | | | | |
| 12 x 10 | 12.75 | 11.938 | 0.406 | 10.75 | 10.020 | 0.365 | 8.00 | 40 | 35.80 |
| 12 x 8 | 12.75 | 11.938 | 0.406 | 8.62 | 7.976 | 0.322 | 8.00 | 40 | 35.80 |
| 12 x 6 | 12.75 | 11.938 | 0.406 | 6.62 | 6.060 | 0.280 | 8.00 | 40 | 35.80 |
| 12 x 5 | 12.75 | 11.938 | 0.406 | 5.56 | 5.044 | 0.258 | 8.00 | 40 | 35.80 |
| 12 x 4 | 12.75 | 11.938 | 0.406 | 4.50 | 4.026 | 0.237 | 8.00 | 40 | 35.80 |
| 14 x 12 | 14.00 | 13.124 | 0.438 | 12.75 | 11.938 | 0.406 | 13.00 | 40 | 68.60 |
| 14 x 10 | 14.00 | 13.124 | 0.438 | 10.75 | 10.020 | 0.365 | 13.00 | 40 | 68.60 |
| 14 x 8 | 14.00 | 13.124 | 0.438 | 8.62 | 7.976 | 0.322 | 13.00 | 40 | 68.60 |
| 14 x 6 | 14.00 | 13.124 | 0.438 | 6.62 | 6.060 | 0.280 | 13.00 | 40 | 68.60 |
| 16 x 14 | 16.00 | 15.000 | 0.500 | 14.00 | 13.124 | 0.438 | 14.00 | 40 | 96.50 |
| 16 x 12 | 16.00 | 15.000 | 0.500 | 12.75 | 11.938 | 0.406 | 14.00 | 40 | 96.50 |
| 16 x 10 | 16.00 | 15.000 | 0.500 | 10.75 | 10.020 | 0.365 | 14.00 | 40 | 96.50 |
| 16 x 8 | 16.00 | 15.000 | 0.500 | 8.62 | 7.976 | 0.322 | 14.00 | 40 | 96.50 |
| 16 x 6 | 16.00 | 15.000 | 0.500 | 6.62 | 6.060 | 0.280 | 14.00 | 40 | 96.50 |
| 18 x 16 | 18.00 | 16.876 | 0.562 | 16.00 | 15.000 | 0.500 | 15.00 | 40 | 131.00 |
| 18 x 14 | 18.00 | 16.876 | 0.562 | 14.00 | 13.124 | 0.438 | 15.00 | 40 | 131.00 |
| 18 x 12 | 18.00 | 16.876 | 0.562 | 12.75 | 11.938 | 0.406 | 15.00 | 40 | 131.00 |
| 18 x 10 | 18.00 | 16.876 | 0.562 | 10.75 | 10.020 | 0.365 | 15.00 | 40 | 131.00 |
| 18 x 8 | 18.00 | 16.876 | 0.562 | 8.62 | 7.976 | 0.322 | 15.00 | 40 | 131.00 |
| 20 x 18 | 20.00 | 18.812 | 0.594 | 18.00 | 16.876 | 0.562 | 20.00 | 40 | 205.00 |
| 20 x 16 | 20.00 | 18.812 | 0.594 | 16.00 | 15.000 | 0.500 | 20.00 | 40 | 205.00 |
| 20 x 14 | 20.00 | 18.812 | 0.594 | 14.00 | 13.124 | 0.438 | 20.00 | 40 | 205.00 |
| 20 x 12 | 20.00 | 18.812 | 0.594 | 12.75 | 11.938 | 0.406 | 20.00 | 40 | 205.00 |
| 20 x 10 | 20.00 | 18.812 | 0.594 | 10.75 | 10.020 | 0.365 | 20.00 | 40 | 205.00 |
| 20 x 8 | 20.00 | 18.812 | 0.594 | 8.62 | 7.976 | 0.322 | 20.00 | 40 | 205.00 |
| 24 x 20 | 24.00 | 22.624 | 0.688 | 20.00 | 18.812 | 0.594 | 20.00 | 40 | 285.00 |
| 24 x 18 | 24.00 | 22.624 | 0.688 | 18.00 | 16.876 | 0.562 | 20.00 | 40 | 285.00 |
| 24 x 16 | 24.00 | 22.624 | 0.688 | 16.00 | 15.000 | 0.500 | 20.00 | 40 | 285.00 |
| 24 x 14 | 24.00 | 22.624 | 0.688 | 14.00 | 13.124 | 0.438 | 20.00 | 40 | 285.00 |
| 24 x 12 | 24.00 | 22.624 | 0.688 | 12.75 | 11.938 | 0.406 | 20.00 | 40 | 285.00 |
| 24 x 10 | 24.00 | 22.624 | 0.688 | 10.75 | 10.020 | 0.365 | 20.00 | 40 | 285.00 |

FITTINGS ECCENTRIC RED.

Project Name: _____
 Job #: _____

ECCENTRIC REDUCERS
ASME B16.9 & ASTM A234 WPB



Source: Import Domestic Approved

DIMENSIONS

UOM: Inches/LBS

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (80) | APPROX WEIGHT |
|--|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|--------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| FOR DIMENSION SPECIFICATIONS ½" THROUGH 8", REFER TO SCHEDULE XS | | | | | | | | | |
| 10 x 8 | 10.75 | 9.562 | 0.594 | 8.62 | 7.620 | 0.500 | 7.00 | 80 | 37.50 |
| 10 x 6 | 10.75 | 9.562 | 0.594 | 6.62 | 5.756 | 0.432 | 7.00 | 80 | 37.50 |
| 10 x 5 | 10.75 | 9.562 | 0.594 | 5.56 | 4.810 | 0.375 | 7.00 | 80 | 37.50 |
| 10 x 4 | 10.75 | 9.562 | 0.594 | 4.50 | 3.826 | 0.337 | 7.00 | 80 | 37.50 |
| 12 x 10 | 12.75 | 11.374 | 0.688 | 10.75 | 9.562 | 0.594 | 8.00 | 80 | 59.00 |
| 12 x 8 | 12.75 | 11.374 | 0.688 | 8.62 | 7.620 | 0.500 | 8.00 | 80 | 59.00 |
| 12 x 6 | 12.75 | 11.374 | 0.688 | 6.62 | 5.756 | 0.432 | 8.00 | 80 | 59.00 |
| 12 x 5 | 12.75 | 11.374 | 0.688 | 5.56 | 4.810 | 0.375 | 8.00 | 80 | 59.00 |
| 12 x 4 | 12.75 | 11.374 | 0.688 | 4.50 | 3.826 | 0.337 | 8.00 | 80 | 59.00 |
| 14 x 12 | 14.00 | 12.500 | 0.750 | 12.75 | 11.374 | 0.688 | 13.00 | 80 | 115.00 |
| 14 x 10 | 14.00 | 12.500 | 0.750 | 10.75 | 9.562 | 0.594 | 13.00 | 80 | 115.00 |
| 14 x 8 | 14.00 | 12.500 | 0.750 | 8.62 | 7.620 | 0.500 | 13.00 | 80 | 115.00 |
| 14 x 6 | 14.00 | 12.500 | 0.750 | 6.62 | 5.756 | 0.432 | 13.00 | 80 | 115.00 |
| 16 x 14 | 16.00 | 14.312 | 0.844 | 14.00 | 12.500 | 0.750 | 14.00 | 80 | 159.00 |
| 16 x 12 | 16.00 | 14.312 | 0.844 | 12.75 | 11.374 | 0.688 | 14.00 | 80 | 159.00 |
| 16 x 10 | 16.00 | 14.312 | 0.844 | 10.75 | 9.562 | 0.594 | 14.00 | 80 | 159.00 |
| 16 x 8 | 16.00 | 14.312 | 0.844 | 8.62 | 7.620 | 0.500 | 14.00 | 80 | 159.00 |
| 16 x 6 | 16.00 | 14.312 | 0.844 | 6.62 | 5.756 | 0.432 | 14.00 | 80 | 159.00 |
| 18 x 16 | 18.00 | 16.124 | 0.938 | 16.00 | 14.312 | 0.844 | 15.00 | 80 | 213.00 |
| 18 x 14 | 18.00 | 16.124 | 0.938 | 14.00 | 12.500 | 0.750 | 15.00 | 80 | 213.00 |
| 18 x 12 | 18.00 | 16.124 | 0.938 | 12.75 | 11.374 | 0.688 | 15.00 | 80 | 213.00 |
| 18 x 10 | 18.00 | 16.124 | 0.938 | 10.75 | 9.562 | 0.594 | 15.00 | 80 | 213.00 |
| 18 x 8 | 18.00 | 16.124 | 0.938 | 8.62 | 7.620 | 0.500 | 15.00 | 80 | 213.00 |
| 20 x 18 | 20.00 | 17.938 | 1.031 | 18.00 | 16.124 | 0.938 | 20.00 | 80.00 | 348.00 |
| 20 x 16 | 20.00 | 17.938 | 1.031 | 16.00 | 14.312 | 0.844 | 20.00 | 80.00 | 348.00 |
| 20 x 14 | 20.00 | 17.938 | 1.031 | 14.00 | 12.500 | 0.750 | 20.00 | 80.00 | 348.00 |
| 20 x 12 | 20.00 | 17.938 | 1.031 | 12.75 | 11.374 | 0.688 | 20.00 | 80.00 | 348.00 |
| 20 x 10 | 20.00 | 17.938 | 1.031 | 10.75 | 9.562 | 0.594 | 20.00 | 80.00 | 348.00 |
| 20 x 8 | 20.00 | 17.938 | 1.031 | 8.62 | 7.620 | 0.500 | 20.00 | 80.00 | 348.00 |
| 24 x 20 | 24.00 | 21.562 | 1.219 | 20.00 | 17.938 | 1.031 | 20.00 | 80.00 | 494.00 |
| 24 x 18 | 24.00 | 21.562 | 1.219 | 18.00 | 16.124 | 0.938 | 20.00 | 80.00 | 494.00 |
| 24 x 16 | 24.00 | 21.562 | 1.219 | 16.00 | 14.312 | 0.844 | 20.00 | 80.00 | 494.00 |
| 24 x 14 | 24.00 | 21.562 | 1.219 | 14.00 | 12.500 | 0.750 | 20.00 | 80.00 | 494.00 |
| 24 x 12 | 24.00 | 21.562 | 1.219 | 12.75 | 11.374 | 0.688 | 20.00 | 80.00 | 494.00 |
| 24 x 10 | 24.00 | 21.562 | 1.219 | 10.75 | 9.562 | 0.594 | 20.00 | 80.00 | 494.00 |

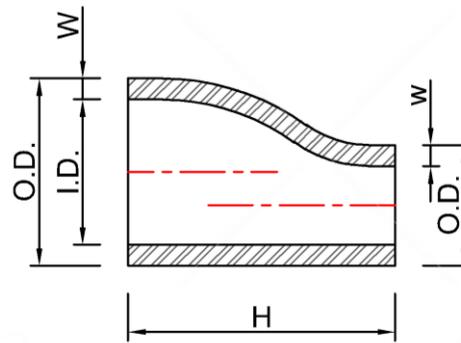
FITTINGS ECCENTRIC RED.

Project Name: _____

Job #: _____

ECCENTRIC REDUCERS

ASME B16.9 & ASTM A234 WPB



Source: Import Domestic Approved

DIMENSIONS

UOM: Inches/LBS

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (160) | APPROX WEIGHT |
|---------------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 3/4 x 1/2 | 1.05 | 0.612 | 0.219 | 0.84 | 0.464 | 0.188 | 1.50 | 160 | 0.37 |
| 1 x 3/4 | 1.32 | 0.820 | 0.250 | 1.05 | 0.612 | 0.219 | 2.00 | 160 | 0.45 |
| 1 x 1/2 | 1.32 | 0.820 | 0.250 | 0.84 | 0.464 | 0.188 | 2.00 | 160 | 0.45 |
| 1 1/4 x 1 | 1.66 | 1.160 | 0.250 | 1.32 | 0.820 | 0.250 | 2.00 | 160 | 0.70 |
| 1 1/4 x 3/4 | 1.66 | 1.160 | 0.250 | 1.05 | 0.612 | 0.219 | 2.00 | 160 | 0.70 |
| 1 1/4 x 1/2 | 1.66 | 1.160 | 0.250 | 0.84 | 0.464 | 0.188 | 2.00 | 160 | 0.70 |
| 1 1/2 x 1 1/4 | 1.90 | 1.338 | 0.281 | 1.66 | 1.160 | 0.250 | 2.50 | 160 | 0.90 |
| 1 1/2 x 1 | 1.90 | 1.338 | 0.281 | 1.32 | 0.820 | 0.250 | 2.50 | 160 | 0.90 |
| 1 1/2 x 3/4 | 1.90 | 1.338 | 0.281 | 1.05 | 0.612 | 0.219 | 2.50 | 160 | 0.90 |
| 1 1/2 x 1/2 | 1.90 | 1.338 | 0.281 | 0.84 | 0.464 | 0.188 | 2.50 | 160 | 0.90 |
| 2 x 1 1/2 | 2.38 | 1.692 | 0.344 | 1.90 | 1.338 | 0.281 | 3.00 | 160 | 1.85 |
| 2 x 1 1/4 | 2.38 | 1.692 | 0.344 | 1.66 | 1.160 | 0.250 | 3.00 | 160 | 1.85 |
| 2 x 1 | 2.38 | 1.692 | 0.344 | 1.32 | 0.820 | 0.250 | 3.00 | 160 | 1.85 |
| 2 x 3/4 | 2.38 | 1.692 | 0.344 | 1.05 | 0.612 | 0.219 | 3.00 | 160 | 1.50 |
| 2 1/2 x 2 | 2.88 | 2.130 | 0.375 | 2.38 | 1.692 | 0.344 | 3.50 | 160 | 3.00 |
| 2 1/2 x 1 1/2 | 2.88 | 2.130 | 0.375 | 1.90 | 1.338 | 0.281 | 3.50 | 160 | 3.00 |
| 2 1/2 x 1 1/4 | 2.88 | 2.130 | 0.375 | 1.66 | 1.160 | 0.250 | 3.50 | 160 | 2.80 |
| 2 1/2 x 1 | 2.88 | 2.130 | 0.375 | 1.32 | 0.820 | 0.250 | 3.50 | 160 | 2.80 |
| 3 x 2 1/2 | 3.50 | 2.624 | 0.438 | 2.88 | 2.130 | 0.375 | 3.50 | 160 | 4.00 |
| 3 x 2 | 3.50 | 2.624 | 0.438 | 2.38 | 1.692 | 0.344 | 3.50 | 160 | 4.00 |
| 3 x 1 1/2 | 3.50 | 2.624 | 0.438 | 1.90 | 1.338 | 0.281 | 3.50 | 160 | 4.00 |
| 3 x 1 1/4 | 3.50 | 2.624 | 0.438 | 1.66 | 1.160 | 0.250 | 3.50 | 160 | 3.50 |
| 3 x 1 | 3.50 | 2.624 | 0.438 | 1.32 | 0.820 | 0.250 | 3.50 | 160 | 3.50 |

FITTINGS ECCENTRIC RED.

Project Name: _____

Job #: _____

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (XXS) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 4 x 3 | 4.50 | 3.438 | 0.531 | 3.50 | 2.624 | 0.438 | 4.00 | 160 | 6.00 |
| 4 x 2 ½ | 4.50 | 3.438 | 0.531 | 2.88 | 2.130 | 0.375 | 4.00 | 160 | 6.00 |
| 4 x 2 | 4.50 | 3.438 | 0.531 | 2.38 | 1.692 | 0.344 | 4.00 | 160 | 5.00 |
| 4 x 1 ½ | 4.50 | 3.438 | 0.531 | 1.90 | 1.338 | 0.281 | 4.00 | 160 | 5.00 |
| 4 x 1 ¼ | 4.50 | 3.438 | 0.531 | 1.66 | 1.160 | 0.250 | 4.00 | 160 | 5.00 |
| 4 x 1 | 4.50 | 3.438 | 0.531 | 1.32 | 0.820 | 0.250 | 4.00 | 160 | 5.00 |
| 5 x 4 | 5.56 | 4.310 | 0.625 | 4.50 | 3.438 | 0.531 | 5.00 | 160 | 14.00 |
| 5 x 3 | 5.56 | 4.310 | 0.625 | 3.50 | 2.624 | 0.438 | 5.00 | 160 | 14.00 |
| 5 x 2 ½ | 5.56 | 4.310 | 0.625 | 2.88 | 2.130 | 0.375 | 5.00 | 160 | 14.00 |
| 5 x 2 | 5.56 | 4.310 | 0.625 | 2.38 | 1.692 | 0.344 | 5.00 | 160 | 14.00 |
| 6 x 5 | 6.62 | 5.182 | 0.719 | 5.56 | 4.310 | 0.625 | 5.50 | 160 | 18.00 |
| 6 x 4 | 6.62 | 5.182 | 0.719 | 4.50 | 3.438 | 0.531 | 5.50 | 160 | 18.00 |
| 6 x 3 | 6.62 | 5.182 | 0.719 | 3.50 | 2.624 | 0.438 | 5.50 | 160 | 15.50 |
| 6 x 2 ½ | 6.62 | 5.182 | 0.719 | 2.88 | 2.130 | 0.375 | 5.50 | 160 | 15.50 |
| 6 x 2 | 6.62 | 5.182 | 0.719 | 2.38 | 1.692 | 0.344 | 5.50 | 160 | 15.00 |
| 8 x 6 | 8.62 | 6.808 | 0.906 | 6.62 | 5.182 | 0.719 | 6.00 | 160 | 31.50 |
| 8 x 5 | 8.62 | 6.808 | 0.906 | 5.56 | 4.310 | 0.625 | 6.00 | 160 | 28.00 |
| 8 x 4 | 8.62 | 6.808 | 0.906 | 4.50 | 3.438 | 0.531 | 6.00 | 160 | 28.00 |
| 8 x 3 | 8.62 | 6.808 | 0.906 | 3.50 | 2.624 | 0.438 | 6.00 | 160 | 30.00 |
| 10 x 8 | 10.75 | 8.500 | 1.125 | 8.62 | 6.808 | 0.906 | 7.00 | 160 | 58.00 |
| 10 x 6 | 10.75 | 8.500 | 1.125 | 6.62 | 5.182 | 0.719 | 7.00 | 160 | 58.00 |
| 10 x 5 | 10.75 | 8.500 | 1.125 | 5.56 | 4.310 | 0.625 | 7.00 | 160 | 54.00 |
| 10 x 4 | 10.75 | 8.500 | 1.125 | 4.50 | 3.438 | 0.531 | 7.00 | 160 | 52.00 |
| 12 x 10 | 12.75 | 10.126 | 1.312 | 10.75 | 8.500 | 1.125 | 8.00 | 160 | 95.00 |
| 12 x 8 | 12.75 | 10.126 | 1.312 | 8.62 | 6.808 | 0.906 | 8.00 | 160 | 85.00 |
| 12 x 6 | 12.75 | 10.126 | 1.312 | 6.62 | 5.182 | 0.719 | 8.00 | 160 | 80.00 |
| 12 x 5 | 12.75 | 10.126 | 1.312 | 5.56 | 4.310 | 0.625 | 8.00 | 160 | 80.00 |
| 12 x 4 | 12.75 | 10.126 | 1.312 | 4.50 | 3.438 | 0.531 | 8.00 | 160 | 80.00 |
| 14 x 12 | 14.00 | 11.188 | 1.406 | 12.75 | 10.126 | 1.312 | 13.00 | 160 | 115.00 |
| 14 x 10 | 14.00 | 11.188 | 1.406 | 10.75 | 8.500 | 1.125 | 13.00 | 160 | 115.00 |
| 14 x 8 | 14.00 | 11.188 | 1.406 | 8.62 | 6.808 | 0.906 | 13.00 | 160 | 159.00 |
| 14 x 6 | 14.00 | 11.188 | 1.406 | 6.62 | 5.182 | 0.719 | 13.00 | 160 | 159.00 |
| 16 x 14 | 16.00 | 12.812 | 1.594 | 14.00 | 11.188 | 1.406 | 14.00 | 160 | 159.00 |
| 16 x 12 | 16.00 | 12.812 | 1.594 | 12.75 | 10.126 | 1.312 | 14.00 | 160 | 159.00 |
| 16 x 10 | 16.00 | 12.812 | 1.594 | 10.75 | 8.500 | 1.125 | 14.00 | 160 | 159.00 |
| 16 x 8 | 16.00 | 12.812 | 1.594 | 8.62 | 6.808 | 0.906 | 14.00 | 160 | 213.00 |
| 16 x 6 | 16.00 | 12.812 | 1.594 | 6.62 | 5.182 | 0.719 | 14.00 | 160 | 213.00 |

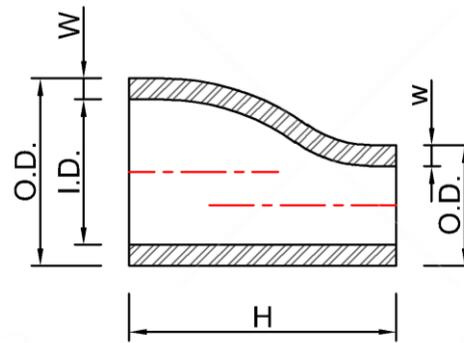
FITTINGS ECCENTRIC RED.

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Project Name: _____

Job #: _____

ECCENTRIC REDUCERS**ASME B16.9 & ASTM A234 WPB**Source: Import Domestic Approved**DIMENSIONS**

UOM: Inches/LBS

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (XXS) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| ¾ x ½ | 1.05 | 0.434 | 0.308 | 0.84 | 0.252 | 0.294 | 1.50 | - | 0.39 |
| 1 x ¾ | 1.32 | 0.604 | 0.358 | 1.05 | 0.434 | 0.308 | 2.00 | - | 0.50 |
| 1 x ½ | 1.32 | 0.604 | 0.358 | 0.84 | 0.252 | 0.294 | 2.00 | - | 0.50 |
| 1 ¼ x 1 | 1.66 | 0.896 | 0.382 | 1.32 | 0.604 | 0.358 | 2.00 | - | 0.75 |
| 1 ¼ x ¾ | 1.66 | 0.896 | 0.382 | 1.05 | 0.434 | 0.308 | 2.00 | - | 0.75 |
| 1 ¼ x ½ | 1.66 | 0.896 | 0.382 | 0.84 | 0.252 | 0.294 | 2.00 | - | 0.75 |
| 1 ½ x 1 ¼ | 1.90 | 1.100 | 0.400 | 1.66 | 0.896 | 0.382 | 2.50 | - | 1.00 |
| 1 ½ x 1 | 1.90 | 1.100 | 0.400 | 1.32 | 0.604 | 0.358 | 2.50 | - | 1.00 |
| 1 ½ x ¾ | 1.90 | 1.100 | 0.400 | 1.05 | 0.434 | 0.308 | 2.50 | - | 1.00 |
| 1 ½ x ½ | 1.90 | 1.100 | 0.400 | 0.84 | 0.252 | 0.294 | 2.50 | - | 1.00 |
| 2 x 1 ½ | 2.38 | 1.508 | 0.436 | 1.90 | 1.100 | 0.400 | 3.00 | - | 2.00 |
| 2 x 1 ¼ | 2.38 | 1.508 | 0.436 | 1.66 | 0.896 | 0.382 | 3.00 | - | 2.00 |
| 2 x 1 | 2.38 | 1.508 | 0.436 | 1.32 | 0.604 | 0.358 | 3.00 | - | 2.00 |
| 2 x ¾ | 2.38 | 1.508 | 0.436 | 1.05 | 0.434 | 0.308 | 3.00 | - | 1.75 |
| 2 ½ x 2 | 2.88 | 1.776 | 0.552 | 2.38 | 1.508 | 0.436 | 3.50 | - | 4.00 |
| 2 ½ x 1 ½ | 2.88 | 1.776 | 0.552 | 1.90 | 1.100 | 0.400 | 3.50 | - | 4.00 |
| 2 ½ x 1 ¼ | 2.88 | 1.776 | 0.552 | 1.66 | 0.896 | 0.382 | 3.50 | - | 3.50 |
| 2 ½ x 1 | 2.88 | 1.776 | 0.552 | 1.32 | 0.604 | 0.358 | 3.50 | - | 3.50 |
| 3 x 2 ½ | 3.50 | 2.300 | 0.600 | 2.88 | 1.776 | 0.552 | 3.50 | - | 5.00 |
| 3 x 2 | 3.50 | 2.300 | 0.600 | 2.38 | 1.508 | 0.436 | 3.50 | - | 5.00 |
| 3 x 1 ½ | 3.50 | 2.300 | 0.600 | 1.90 | 1.100 | 0.400 | 3.50 | - | 5.00 |
| 3 x 1 ¼ | 3.50 | 2.300 | 0.600 | 1.66 | 0.896 | 0.382 | 3.50 | - | 4.50 |
| 3 x 1 | 3.50 | 2.300 | 0.600 | 1.32 | 0.604 | 0.358 | 3.50 | - | 4.50 |

Project Name: _____

Job #: _____

| PIPE SIZE | LARGE DIAMETER | | | SMALL DIAMETER | | | LENGTH (H) | PIPE SCHEDULE (XXS) | APPROX WEIGHT |
|-----------|-------------------------|------------------------|--------------------|-------------------------|------------------------|--------------------|------------|---------------------|---------------|
| | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | OUTSIDE DIAMETER (O.D.) | INSIDE DIAMETER (I.D.) | WALL THICKNESS (W) | | | |
| 4 x 3 | 4.50 | 3.152 | 0.674 | 3.50 | 2.300 | 0.600 | 4.00 | - | 8.00 |
| 4 x 2 ½ | 4.50 | 3.152 | 0.674 | 2.88 | 1.776 | 0.552 | 4.00 | - | 8.00 |
| 4 x 2 | 4.50 | 3.152 | 0.674 | 2.38 | 1.508 | 0.436 | 4.00 | - | 7.50 |
| 4 x 1 ½ | 4.50 | 3.152 | 0.674 | 1.90 | 1.100 | 0.400 | 4.00 | - | 7.50 |
| 4 x 1 ¼ | 4.50 | 3.152 | 0.674 | 1.66 | 0.896 | 0.382 | 4.00 | - | 7.50 |
| 4 x 1 | 4.50 | 3.152 | 0.674 | 1.32 | 0.604 | 0.358 | 4.00 | - | 7.50 |
| 5 x 4 | 5.56 | 4.060 | 0.750 | 4.50 | 3.152 | 0.674 | 5.00 | - | 16.00 |
| 5 x 3 | 5.56 | 4.060 | 0.750 | 3.50 | 2.300 | 0.600 | 5.00 | - | 16.00 |
| 5 x 2 ½ | 5.56 | 4.060 | 0.750 | 2.88 | 1.776 | 0.552 | 5.00 | - | 16.00 |
| 5 x 2 | 5.56 | 4.060 | 0.750 | 2.38 | 1.508 | 0.436 | 5.00 | - | 16.00 |
| 6 x 5 | 6.62 | 4.892 | 0.864 | 5.56 | 4.060 | 0.750 | 5.50 | - | 23.00 |
| 6 x 4 | 6.62 | 4.892 | 0.864 | 4.50 | 3.152 | 0.674 | 5.50 | - | 23.00 |
| 6 x 3 | 6.62 | 4.892 | 0.864 | 3.50 | 2.300 | 0.600 | 5.50 | - | 20.00 |
| 6 x 2 ½ | 6.62 | 4.892 | 0.864 | 2.88 | 1.776 | 0.552 | 5.50 | - | 20.00 |
| 6 x 2 | 6.62 | 4.892 | 0.864 | 2.38 | 1.508 | 0.436 | 5.50 | - | 19.00 |
| 8 x 6 | 8.62 | 6.870 | 0.875 | 6.62 | 4.892 | 0.864 | 6.00 | - | 36.00 |
| 8 x 5 | 8.62 | 6.870 | 0.875 | 5.56 | 4.060 | 0.750 | 6.00 | - | 33.00 |
| 8 x 4 | 8.62 | 6.870 | 0.875 | 4.50 | 3.152 | 0.674 | 6.00 | - | 33.00 |
| 8 x 3 | 8.62 | 6.870 | 0.875 | 3.50 | 2.300 | 0.600 | 6.00 | - | 33.00 |
| 10 x 8 | 10.75 | 8.750 | 1.000 | 8.62 | 6.870 | 0.875 | 7.00 | - | 48.00 |
| 10 x 6 | 10.75 | 8.750 | 1.000 | 6.62 | 4.892 | 0.864 | 7.00 | - | 58.00 |
| 10 x 5 | 10.75 | 8.750 | 1.000 | 5.56 | 4.060 | 0.750 | 7.00 | - | 54.00 |
| 10 x 4 | 10.75 | 8.750 | 1.000 | 4.50 | 3.152 | 0.674 | 7.00 | - | 52.00 |
| 12 x 10 | 12.75 | 10.750 | 1.000 | 10.75 | 8.750 | 1.000 | 8.00 | - | 95.00 |
| 12 x 8 | 12.75 | 10.750 | 1.000 | 8.62 | 6.870 | 0.875 | 8.00 | - | 85.00 |
| 12 x 6 | 12.75 | 10.750 | 1.000 | 6.62 | 4.892 | 0.864 | 8.00 | - | 80.00 |
| 12 x 5 | 12.75 | 10.750 | 1.000 | 5.56 | 4.060 | 0.750 | 8.00 | - | 80.00 |
| 12 x 4 | 12.75 | 10.750 | 1.000 | 4.50 | 3.512 | 0.674 | 8.00 | - | 80.00 |

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