



**Ductile Iron Pipe Size (DIPS) and Dimension Data**

**PE4710**  
**(PE3408)**

\*Pressure Ratings are calculated using 0.63 design factor for HDS at 73°F as listed in PPI TR-4 for PE 4710 materials. HDPE can accommodate up to 1.5 times the pipe pressure rating for a recurring surge and up to 2.0 times the pipe pressure rating for an occasional surge. Temperature, Chemical, and Environmental use considerations may require use of additional design factors.

| Pressure Rating   |              | 335 psi<br>DR 7.0  |                |                 | 250 psi<br>DR 9.0  |                |                 | 200 psi<br>DR 11.0 |                |                 | 160 psi<br>DR 13.5 |                |                 | Nominal Pipe Size |
|-------------------|--------------|--------------------|----------------|-----------------|--------------------|----------------|-----------------|--------------------|----------------|-----------------|--------------------|----------------|-----------------|-------------------|
| Nominal Pipe Size | DIPS OD (in) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) |                   |
| 4"                | 4.80         | 0.686              | 3.346          | 3.87            | 0.533              | 3.670          | 3.13            | 0.436              | 3.876          | 2.62            | 0.356              | 4.045          | 2.18            | 4"                |
| 6"                | 6.90         | 0.986              | 4.810          | 8.00            | 0.767              | 5.274          | 6.47            | 0.627              | 5.571          | 5.42            | 0.511              | 5.817          | 4.50            | 6"                |
| 8"                | 9.05         | 1.293              | 6.309          | 13.76           | 1.006              | 6.917          | 11.13           | 0.823              | 7.305          | 9.32            | 0.670              | 7.630          | 7.75            | 8"                |
| 10"               | 11.10        | 1.586              | 7.738          | 20.70           | 1.233              | 8.486          | 16.74           | 1.009              | 8.961          | 14.03           | 0.822              | 9.357          | 11.66           | 10"               |
| 12"               | 13.20        | 1.886              | 9.202          | 29.27           | 1.467              | 10.090         | 23.67           | 1.200              | 10.656         | 19.84           | 0.978              | 11.127         | 16.48           | 12"               |
| 14"               | 15.30        | 2.186              | 10.666         | 39.33           | 1.700              | 11.696         | 31.80           | 1.391              | 12.351         | 26.65           | 1.133              | 12.898         | 22.15           | 14"               |
| 16"               | 17.40        | 2.486              | 12.130         | 50.87           | 1.933              | 13.302         | 41.13           | 1.582              | 14.046         | 34.47           | 1.289              | 14.667         | 28.64           | 16"               |
| 18"               | 19.50        | 2.786              | 13.594         | 63.89           | 2.167              | 14.906         | 51.66           | 1.773              | 15.741         | 43.29           | 1.444              | 16.439         | 35.97           | 18"               |
| 20"               | 21.60        | -                  | -              | -               | 2.400              | 16.512         | 63.38           | 1.964              | 17.436         | 53.12           | 1.600              | 18.208         | 44.14           | 20"               |
| 24"               | 25.80        | -                  | -              | -               | 2.867              | 19.722         | 90.43           | 2.345              | 20.829         | 75.78           | 1.911              | 21.749         | 62.97           | 24"               |
| 30"               | 32.00        | -                  | -              | -               | -                  | -              | -               | 2.909              | 25.833         | 116.58          | 2.370              | 26.976         | 96.87           | 30"               |
| 36"               | 38.30        | -                  | -              | -               | -                  | -              | -               | 3.482              | 30.918         | 167.01          | 2.837              | 32.286         | 138.77          | 36"               |
| 42"               | 44.50        | -                  | -              | -               | -                  | -              | -               | -                  | -              | -               | 3.296              | 37.512         | 187.33          | 42"               |
| Pressure Rating   |              | 125 psi<br>DR 17.0 |                |                 | 100 psi<br>DR 21.0 |                |                 | 80 psi<br>DR 26.0  |                |                 | 63 psi<br>DR 32.5  |                |                 | Nominal Pipe Size |
| Nominal Pipe Size | DIPS OD (in) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) | Minimum Wall (in)  | Average ID(in) | Weight (lbs/ft) |                   |
| 4"                | 4.80         | 0.282              | 4.202          | 1.76            | 0.229              | 4.315          | 1.45            | -                  | -              | -               | -                  | -              | -               | 4"                |
| 6"                | 6.90         | 0.406              | 6.039          | 3.64            | 0.329              | 6.203          | 2.99            | 0.265              | 6.338          | 2.43            | 0.212              | 6.451          | 1.96            | 6"                |
| 8"                | 9.05         | 0.532              | 7.922          | 6.26            | 0.431              | 8.136          | 5.13            | 0.348              | 8.312          | 4.19            | 0.278              | 8.461          | 3.37            | 8"                |
| 10"               | 11.10        | 0.653              | 9.716          | 9.42            | 0.529              | 9.979          | 7.73            | 0.427              | 10.195         | 6.30            | 0.342              | 10.375         | 5.09            | 10"               |
| 12"               | 13.20        | 0.776              | 11.555         | 13.31           | 0.629              | 11.867         | 10.93           | 0.508              | 12.123         | 8.91            | 0.406              | 12.339         | 7.19            | 12"               |
| 14"               | 15.30        | 0.900              | 13.392         | 17.89           | 0.729              | 13.755         | 14.68           | 0.588              | 14.053         | 11.96           | 0.471              | 14.301         | 9.66            | 14"               |
| 16"               | 17.40        | 1.024              | 15.229         | 23.15           | 0.829              | 15.643         | 18.98           | 0.669              | 15.982         | 15.48           | 0.535              | 16.266         | 12.48           | 16"               |
| 18"               | 19.50        | 1.147              | 17.068         | 29.07           | 0.929              | 17.531         | 23.84           | 0.750              | 17.910         | 19.44           | 0.600              | 18.228         | 15.69           | 18"               |
| 20"               | 21.60        | 1.271              | 18.905         | 35.68           | 1.029              | 19.419         | 29.25           | 0.831              | 19.838         | 23.86           | 0.665              | 20.190         | 19.26           | 20"               |
| 24"               | 25.80        | 1.518              | 22.582         | 50.89           | 1.229              | 23.195         | 41.73           | 0.992              | 23.697         | 34.03           | 0.794              | 24.117         | 27.46           | 24"               |
| 30"               | 32.00        | 1.882              | 28.010         | 78.26           | 1.524              | 28.769         | 64.18           | 1.231              | 29.390         | 52.37           | 0.985              | 29.912         | 42.26           | 30"               |
| 36"               | 38.30        | 2.253              | 33.524         | 112.13          | 1.824              | 34.433         | 91.93           | 1.473              | 35.177         | 75.00           | 1.178              | 35.803         | 60.49           | 36"               |
| 42"               | 44.50        | 2.618              | 38.950         | 151.39          | 2.119              | 40.008         | 124.09          | 1.712              | 40.871         | 101.28          | 1.369              | 41.598         | 81.68           | 42"               |

This size and dimension chart is intended for reference purposes. It should not be used in place of the advice from a licensed Professional Engineer. Pipe weights are calculated in accordance with PPI TR-7. Average inside diameter is calculated using DIPS OD and Minimum wall plus 6% for use in estimating fluid flows. Actual ID will vary. When designing components to fit the pipe ID, refer to pipe dimension and tolerances in the applicable pipe manufacturing specification.