

# MIDC PRICE LIST 2013

## POLYETHYLENE (PE) SDR-PRESSURE RATED TUBE

(2306, 3206, 3306) SDR 7, 9, 11.5, 15 C = 140  
PSI LOSS PER 100 FEET OF TUBE (PSI/100 FT)

Velocity of flow values are computed from the general equation:

$$V = .408 \frac{Q}{d^2}$$

Friction pressure loss values are computed from the equation:

$$h_f = 0.2083 \left( \frac{100}{C} \right)^{1.852} \frac{Q^{1.852}}{d^{4.866}}$$

Sizes 1/2" thru 6"  
Flow GPM 1 thru 600

| SIZE        | 1/2"            | 3/4"        | 1"              | 1 1/4"      | 1 1/2"          | 2"          | 2 1/2"          | 3"          | 4"              | 6"          |                 |             |                 |             |                 |             |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| ID          | 0.622           | 0.824       | 1.049           | 1.380       | 1.610           | 2.067       | 2.469           | 3.068       | 4.026           | 6.065       |                 |             |                 |             |                 |             |
| Flow G.P.M. | Velocity F.P.S. | P.S.I. Loss |
| 1           | 1.05            | 0.49        | 0.60            | 0.12        | 0.37            | 0.04        | 0.21            | 0.01        | 0.15            | 0.00        | 0.09            | 0.00        |                 |             |                 |             |
| 2           | 2.10            | 1.76        | 1.20            | 0.45        | 0.74            | 0.14        | 0.42            | 0.04        | 0.31            | 0.02        | 0.19            | 0.01        |                 |             |                 |             |
| 3           | 3.16            | 3.73        | 1.80            | 0.95        | 1.11            | 0.29        | 0.64            | 0.08        | 0.47            | 0.04        | 0.28            | 0.01        | 0.20            | 0.00        |                 |             |
| 4           | 4.21            | 6.35        | 2.40            | 1.62        | 1.48            | 0.50        | 0.85            | 0.13        | 0.62            | 0.06        | 0.38            | 0.02        | 0.26            | 0.01        |                 |             |
| 5           | 5.27            | 9.60        | 3.00            | 2.44        | 1.85            | 0.76        | 1.07            | 0.20        | 0.78            | 0.09        | 0.47            | 0.03        | 0.33            | 0.01        | 0.21            | 0.00        |
| 6           | 6.32            | 13.46       | 3.60            | 3.43        | 2.22            | 1.06        | 1.28            | 0.28        | 0.94            | 0.13        | 0.57            | 0.04        | 0.40            | 0.02        | 0.26            | 0.01        |
| 7           | 7.38            | 17.91       | 4.20            | 4.56        | 2.59            | 1.41        | 1.49            | 0.37        | 1.10            | 0.18        | 0.66            | 0.05        | 0.46            | 0.02        | 0.30            | 0.01        |
| 8           | 8.43            | 22.93       | 4.80            | 5.84        | 2.96            | 1.80        | 1.71            | 0.47        | 1.25            | 0.22        | 0.76            | 0.07        | 0.53            | 0.03        | 0.34            | 0.01        |
| 9           | 9.49            | 28.52       | 5.40            | 7.26        | 3.33            | 2.24        | 1.92            | 0.59        | 1.41            | 0.28        | 0.85            | 0.08        | 0.60            | 0.03        | 0.39            | 0.01        |
| 10          | 10.54           | 34.67       | 6.00            | 8.82        | 3.70            | 2.73        | 2.14            | 0.72        | 1.57            | 0.34        | 0.95            | 0.10        | 0.66            | 0.04        | 0.43            | 0.01        |
| 11          | 11.60           | 41.36       | 6.60            | 10.53       | 4.07            | 3.25        | 2.35            | 0.86        | 1.73            | 0.40        | 1.05            | 0.12        | 0.73            | 0.05        | 0.47            | 0.02        |
| 12          | 12.65           | 48.60       | 7.21            | 12.37       | 4.44            | 3.82        | 2.57            | 1.01        | 1.88            | 0.48        | 1.14            | 0.14        | 0.80            | 0.06        | 0.52            | 0.02        |
| 14          | 14.76           | 64.65       | 8.41            | 16.46       | 5.19            | 5.08        | 2.99            | 1.34        | 2.20            | 0.63        | 1.33            | 0.19        | 0.93            | 0.08        | 0.60            | 0.03        |
| 16          | 16.87           | 82.79       | 9.61            | 21.07       | 5.93            | 6.51        | 3.42            | 1.71        | 2.51            | 0.81        | 1.52            | 0.24        | 1.07            | 0.10        | 0.69            | 0.04        |
| 18          | 18.98           | 102.97      | 10.81           | 26.21       | 6.67            | 8.10        | 3.85            | 2.13        | 2.83            | 1.01        | 1.71            | 0.30        | 1.20            | 0.13        | 0.78            | 0.04        |
| 20          |                 |             | 12.01           | 31.86       | 7.41            | 9.84        | 4.28            | 2.59        | 3.14            | 1.22        | 1.90            | 0.36        | 1.33            | 0.15        | 0.86            | 0.05        |
| 22          |                 |             | 13.21           | 38.01       | 8.15            | 11.74       | 4.71            | 3.09        | 3.46            | 1.46        | 2.10            | 0.43        | 1.47            | 0.18        | 0.95            | 0.06        |
| 24          |                 |             | 14.42           | 44.65       | 8.89            | 13.79       | 5.14            | 3.63        | 3.77            | 1.72        | 2.29            | 0.51        | 1.60            | 0.21        | 1.04            | 0.07        |
| 26          |                 |             | 15.62           | 41.79       | 9.64            | 16.00       | 5.57            | 4.21        | 4.09            | 1.99        | 2.48            | 0.59        | 1.74            | 0.25        | 1.12            | 0.09        |
| 28          |                 |             | 16.82           | 59.41       | 10.38           | 18.35       | 5.99            | 4.83        | 4.40            | 2.28        | 2.67            | 0.68        | 1.87            | 0.29        | 1.21            | 0.10        |
| 30          |                 |             | 18.02           | 67.50       | 11.12           | 20.85       | 6.42            | 5.49        | 4.72            | 2.59        | 2.86            | 0.77        | 2.00            | 0.32        | 1.30            | 0.11        |
| 35          |                 |             |                 |             | 12.97           | 27.74       | 7.49            | 7.31        | 5.50            | 3.45        | 3.34            | 1.02        | 2.34            | 0.43        | 1.51            | 0.15        |
| 40          |                 |             |                 |             | 14.83           | 35.53       | 8.56            | 9.36        | 6.29            | 4.42        | 3.81            | 1.31        | 2.67            | 0.55        | 1.73            | 0.19        |
| 45          |                 |             |                 |             | 16.68           | 44.19       | 9.64            | 11.64       | 7.08            | 5.50        | 4.29            | 1.63        | 3.01            | 0.69        | 1.95            | 0.24        |
| 50          |                 |             |                 |             | 18.53           | 53.71       | 10.71           | 14.14       | 7.87            | 6.68        | 4.77            | 1.98        | 3.34            | 0.83        | 2.16            | 0.29        |
| 55          |                 |             |                 |             |                 |             | 11.78           | 16.87       | 8.65            | 7.97        | 5.25            | 2.36        | 3.68            | 1.00        | 2.38            | 0.35        |
| 60          |                 |             |                 |             |                 |             | 12.85           | 19.82       | 9.44            | 9.36        | 5.72            | 2.78        | 4.01            | 1.17        | 2.60            | 0.41        |
| 65          |                 |             |                 |             |                 |             | 13.92           | 22.99       | 10.23           | 10.86       | 6.20            | 3.22        | 4.35            | 1.36        | 2.81            | 0.47        |
| 70          |                 |             |                 |             |                 |             | 14.99           | 26.37       | 11.01           | 12.46       | 6.68            | 3.69        | 4.68            | 1.56        | 3.03            | 0.54        |
| 75          |                 |             |                 |             |                 |             | 16.06           | 29.97       | 11.80           | 14.16       | 7.16            | 4.20        | 5.01            | 1.77        | 3.25            | 0.61        |
| 80          |                 |             |                 |             |                 |             | 17.13           | 33.77       | 12.59           | 15.95       | 7.63            | 4.73        | 5.35            | 1.99        | 3.46            | 0.69        |
| 85          |                 |             |                 |             |                 |             | 18.21           | 37.79       | 13.37           | 17.85       | 8.11            | 5.29        | 5.68            | 2.23        | 3.68            | 0.77        |
| 90          |                 |             |                 |             |                 |             | 19.28           | 42.01       | 14.16           | 19.84       | 8.59            | 5.88        | 6.02            | 2.48        | 3.90            | 0.86        |
| 95          |                 |             |                 |             |                 |             |                 |             | 14.95           | 21.93       | 9.07            | 6.50        | 6.35            | 2.74        | 4.11            | 0.95        |
| 100         |                 |             |                 |             |                 |             |                 |             | 15.74           | 24.12       | 9.54            | 7.15        | 6.69            | 3.01        | 4.33            | 1.05        |
| 110         |                 |             |                 |             |                 |             | 17.31           | 28.77       | 10.50           | 8.53        | 7.36            | 3.59        | 4.76            | 1.25        | 2.76            | 0.33        |
| 120         |                 |             |                 |             |                 |             | 18.88           | 33.80       | 11.45           | 10.02       | 8.03            | 4.22        | 5.20            | 1.47        | 3.02            | 0.39        |
| 130         |                 |             |                 |             |                 |             |                 |             | 12.41           | 11.62       | 8.70            | 4.90        | 5.63            | 1.70        | 3.27            | 0.45        |
| 140         |                 |             |                 |             |                 |             |                 |             | 13.36           | 13.33       | 9.37            | 5.62        | 6.06            | 1.95        | 3.52            | 0.52        |
| 150         |                 |             |                 |             |                 |             |                 |             | 14.32           | 15.15       | 10.03           | 6.38        | 6.50            | 2.22        | 3.77            | 0.59        |
| 160         |                 |             |                 |             |                 |             |                 |             | 15.27           | 17.08       | 10.70           | 7.19        | 6.93            | 2.50        | 4.02            | 0.67        |
| 170         |                 |             |                 |             |                 |             |                 |             | 16.23           | 19.11       | 11.37           | 8.05        | 7.36            | 2.80        | 4.27            | 0.75        |
| 180         |                 |             |                 |             |                 |             |                 |             | 17.18           | 21.24       | 12.04           | 8.95        | 7.08            | 3.11        | 4.53            | 0.83        |
| 190         |                 |             |                 |             |                 |             |                 |             | 18.14           | 23.48       | 12.71           | 9.89        | 8.23            | 3.44        | 4.78            | 0.92        |
| 200         |                 |             |                 |             |                 |             |                 |             | 19.09           | 25.81       | 13.38           | 10.87       | 8.66            | 3.78        | 5.03            | 1.01        |
| 225         |                 |             |                 |             |                 |             |                 |             |                 |             | 15.05           | 13.52       | 9.75            | 4.70        | 5.66            | 1.25        |
| 250         |                 |             |                 |             |                 |             |                 |             |                 |             | 16.73           | 16.44       | 10.83           | 5.71        | 6.29            | 1.52        |
| 275         |                 |             |                 |             |                 |             |                 |             |                 |             | 18.40           | 19.61       | 11.92           | 6.82        | 6.92            | 1.82        |
| 300         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 13.00           | 8.01        | 7.55            | 2.13        |
| 325         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 14.08           | 9.29        | 8.18            | 2.48        |
| 350         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 15.17           | 10.65       | 8.81            | 2.84        |
| 375         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 16.25           | 12.10       | 9.43            | 3.23        |
| 400         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 17.33           | 13.64       | 10.06           | 3.64        |
| 425         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 18.42           | 15.26       | 10.69           | 4.07        |
| 450         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 19.50           | 16.97       | 11.32           | 4.52        |
| 475         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 11.95           | 5.00        |
| 500         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 12.58           | 5.50        |
| 550         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 13.84           | 6.56        |
| 600         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             | 15.10           | 7.70        |

Note: Shaded areas of chart indicate velocities over 5' per second. Use with Caution.