

iH²O INSULATED PIPE



CHILLED WATER iH2O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: HDPE/HDPE BLACK

SPECIFICATION: SDR17

Service Pipe Material:

PE100 S1 HDPE (k = 0.43 W/m°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m°K)

| Pipe Diameter Diameter (mm) | Equivalent Imperial & Flange Compability ⁽¹⁾ (inch) | Pressure Class | | NB (mm) | Casing (PE100 S1 HDPE Black) --- OD/ID (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Dry & Wet mass of iH2O insulated pipe* (standard stock items) | |
|-----------------------------------|---|-------------------|-----|---------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|-----------------|------------------|---|------------------|
| | | 110 | 103 | | 160 | 150 | 180 | 169 | 200 | 188 | 225 | 211 | 250 | 235 | 280 | 263 | 315 | 296 | 355 | 338 | 400 | 380 | 450 | 428 | 500 | 476 | 560 | 533 | 630 | 599 | Dry Mass of insulated pipe (kg/m) | Wet Mass of insulated pipe (kg/m) | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) |
| 20 | 1/2" | 16 | 11 | 16.4 | 41.7 | 3.52 | 65.2 | 6.28 | | | | | | | | | | | | | | | | | | | | | | | | 1.6 | 1.8 | | | |
| 25 | 3/4" | 16 | 11 | 20.5 | 39.2 | 3.04 | 62.7 | 5.59 | | | | | | | | | | | | | | | | | | | | | | | | 1.6 | 1.9 | | | |
| 32 | 1" | 16 | 11 | 26.2 | 35.7 | 2.52 | 59.2 | 4.82 | 68.5 | 5.84 | | | | | | | | | | | | | | | | | | | | | | 3.3 | 3.9 | | | |
| 40 | 1 1/4" | 16 | 11 | 32.7 | 31.7 | 2.04 | 55.2 | 4.13 | 64.5 | 5.06 | | | | | | | | | | | | | | | | | | | | | | 3.5 | 4.3 | | | |
| 50 | 1 1/2" | 16 | 11 | 40.9 | | | 50.2 | 3.44 | 59.5 | 4.28 | | | | | | | | | | | | | | | | | | | | | | 3.7 | 5.0 | | | |
| 63 | 2" | 16 | 11 | 51.5 | | | 43.7 | 2.73 | 53.0 | 3.48 | 62.4 | 4.27 | | | | | | | | | | | | | | | | | | | | 4.8 | 6.9 | | | |
| 75 | 2 1/2" | 16 | 11 | 61.4 | | | 37.7 | 2.19 | 47.0 | 2.87 | 56.4 | 3.60 | 68.2 | 4.56 | | | | | | | | | | | | | | | | | | 6.1 | 9.0 | | | |
| 90 | 2 1/2" ⁽¹⁾ & 3" | 16 | 11 | 73.6 | | | | | 39.5 | 2.24 | 48.9 | 2.89 | 60.7 | 3.77 | | | | | | | | | | | | | | | | | | 6.6 | 10.8 | | | |
| 110 | 3" ⁽¹⁾ & 4" | 10 | 17 | 97.1 | | | | | | | 38.9 | 2.11 | 50.7 | 2.88 | 62.4 | 3.71 | | | | | | | | | | | | | | | | 7.7 | 15.1 | | | |
| 125 | 5" | 10 | 17 | 110.3 | | | | | | | | | 43.2 | 2.33 | 54.9 | 3.10 | 69.0 | 4.08 | | | | | | | | | | | | | | 9.6 | 19.2 | | | |
| 140 | 4" ⁽¹⁾ & 5" | 10 | 17 | 123.5 | | | | | | | | | 35.7 | 1.84 | 47.4 | 2.55 | 61.5 | 3.47 | | | | | | | | | | | | | | 10.1 | 22.1 | | | |
| 160 | 5" ⁽¹⁾ & 6" | 10 | 17 | 141.2 | | | | | | | | | | | 37.4 | 1.90 | 51.5 | 2.75 | 68.0 | 3.81 | | | | | | | | | | | | 12.8 | 28.5 | | | |
| 180 | 5" ⁽¹⁾ & 6" | 10 | 17 | 158.8 | | | | | | | | | | | | | 41.5 | 2.11 | 58.0 | 3.09 | 78.8 | 4.44 | | | | | | | | | | 16.2 | 36.0 | | | |
| 200 | 6" ⁽¹⁾ & "8 | 10 | 17 | 176.5 | | | | | | | | | | | | | | | 48.0 | 2.45 | 68.8 | 3.70 | | | | | | | | | | 17.2 | 41.6 | | | |
| 225 | 8" | 10 | 17 | 198.5 | | | | | | | | | | | | | | | 35.5 | 1.73 | 56.3 | 2.89 | 77.7 | 4.19 | | | | | | | | 19.8 | 50.8 | | | |
| 250 | 8" ⁽¹⁾ & 10" | 10 | 17 | 220.6 | | | | | | | | | | | | | | | | | 43.8 | 2.15 | 65.2 | 3.36 | | | | | | | | 24.9 | 63.1 | | | |
| 280 | 10" | 10 | 17 | 247.1 | | | | | | | | | | | | | | | | | | 50.2 | 2.47 | 74.0 | 3.82 | | | | | | | 26.9 | 74.9 | | | |
| 315 | 10" ⁽¹⁾ & 12" | 10 | 17 | 277.9 | | | | | | | | | | | | | | | | | | | | 56.5 | 2.78 | 80.3 | 4.12 | | | | | 34.1 | 94.7 | | | |
| 355 | 12" ⁽¹⁾ & 14" | 10 | 17 | 313.2 | | | | | | | | | | | | | | | | | | | | 36.5 | 1.73 | 60.3 | 2.95 | 88.8 | 4.55 | | | 42.5 | 119.6 | | | |
| 400 | 14" ⁽¹⁾ & 16" | 10 | 17 | 352.9 | | | | | | | | | | | | | | | | | | | | | | 37.8 | 1.79 | 66.3 | 3.24 | 99.6 | 5.10 | 53.6 | 151.4 | | | |
| 450 | 16" ⁽¹⁾ & 18" | 10 | 17 | 397.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 67.8 | 191.6 | | | |
| 500 | 16" ⁽¹⁾ & 20" | 10 | 17 | 441.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 73.8 | 226.6 | | | |

BLUE BLOCKS DENOTE STANDARD STOCK ITEMS

*Dry mass of insulated pipe = Service pipe mass + PUR insulation mass + Casing mass,

Wet mass of insulated pipe = Dry mass of insulated pipe + Service fluid (water) mass

NOTE⁽¹⁾ SPECIAL FULL FACE ADAPTOR FLANGE REQUIRED