



AGRICULTURAL IRRIGATION PRODUCT SPECIFICATION

ASTM D2241 Plastic Irrigation Pipe (PIP) | Gasketed Integral Bell

NAPCO's Gasketed Integral Bell Plastic Irrigation Pipe (PIP) product line is manufactured to meet the needs of irrigation systems in accordance with ASTM D2241. With top quality raw materials and modern processing technology, our PIP products meet all industry standards in addition to our own rigorous quality control requirements.

Our Plastic Irrigation Pipe utilizes Rieber style gaskets throughout the entire product offering to create a leak-free joint.



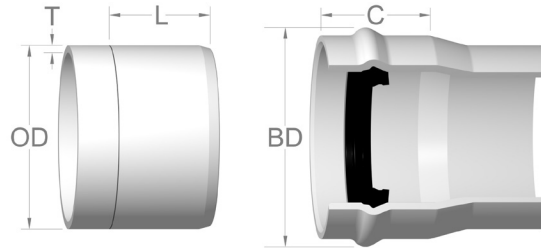
| Short Form Specification | |
|---|--|
| Pipe Standard: | ASTM D2241 |
| Diameter Std.: | Plastic Irrigation Pipe |
| Nominal Sizes: | 6", 8", 10", 12", 15", 18", 21", 24", 27" |
| Dimension Ratios & Pressure Ratings: | SDR 51 – 80 psi SDR 41 – 100 psi |
| Lay Length: | 20' or 22' – All Sizes 40' – 6" to 8" Sizes |
| Color: | Blue or White |
| Pipe Compound: | ASTM D1784 Cell Class 12454 |
| Pipe Joint Std.: | ASTM D3139 |
| Max. Angular Joint Deflection:‡ | 1° |
| Gasket Standard: | ASTM F477 |
| Gasket Material Offerings: | Styrene-Butadiene Rubber |
| Installation Std.: | ASTM D2774 & NRCS 430 |

‡See *Installation Guide* for more information.



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PLASTIC IRRIGATION PIPE DIMENSIONS & PERFORMANCE

| Nom. Size | Outside Diameter (OD) | SDR | Pressure Rating (psi) | Min. Wall Thickness (T) | Internal Diameter (ID) | Approx. Bell Diameter (BD) | Bell Depth (C) | Insertion Mark (L) |
|-----------|-----------------------|-----|-----------------------|-------------------------|------------------------|----------------------------|----------------|--------------------|
| 6" | 6.140 | 51 | 80 | 0.120 | 5.900 | 7.250 | 5.000 | 4.125 |
| | | 41 | 100 | 0.150 | 5.840 | | | |
| 8" | 8.160 | 51 | 80 | 0.160 | 7.840 | 9.250 | 6.000 | 5.125 |
| | | 41 | 100 | 0.199 | 7.762 | | | |
| 10" | 10.200 | 51 | 80 | 0.200 | 9.800 | 11.750 | 6.000 | 5.125 |
| | | 41 | 100 | 0.249 | 9.702 | | | |
| 12" | 12.240 | 51 | 80 | 0.240 | 11.760 | 14.000 | 6.500 | 5.750 |
| | | 41 | 100 | 0.299 | 11.642 | | | |
| 15" | 15.300 | 51 | 80 | 0.300 | 14.700 | 17.000 | 7.750 | 7.000 |
| | | 41 | 100 | 0.373 | 14.554 | | | |
| 18" | 18.701 | 51 | 80 | 0.366 | 17.969 | 20.750 | 9.750 | 9.000 |
| | | 41 | 100 | 0.456 | 17.789 | | | |
| 21" | 22.047 | 51 | 80 | 0.432 | 21.183 | 24.250 | 10.250 | 9.500 |
| | | 41 | 100 | 0.538 | 20.971 | | | |
| 24" | 24.803 | 51 | 80 | 0.486 | 23.831 | 27.250 | 11.250 | 10.500 |
| | | 41 | 100 | 0.605 | 23.593 | | | |
| 27" | 27.953 | 51 | 80 | ** | ** | 30.750 | 12.250 | 11.250 |
| | | 41 | 100 | 0.682 | 26.589 | | | |

Notes:

1. These dimensions are for estimating purposes only. All dimensions are in inches unless otherwise specified.
 2. SDR = Standard Dimension Ratio
 3. ASTM Pressure Rating @ 73°F and includes 2:1 safety factor.
 4. Internal diameter calculated using nominal outside diameter and minimum wall thickness.
 5. Dimension given for Approx. Bell Diameter (BD) is for highest pressure class.
- ** Consult our Customer Service or Sales Department for availability.