



MUNICIPAL PRODUCT SPECIFICATION

PVC Gravity Sewer Pipe | Gasketed Integral Bell

NAPCO Royal's Gasketed Integral Bell PVC Sewer Pipe product line is manufactured to meet the needs of modern municipal waste water systems, storm water drainage systems, and other non-pressure applications. With top quality raw materials and modern processing technology, our gasketed sewer pipe meets all industry standards in addition to our own rigorous quality control requirements.

Our gasketed sewer pipe utilizes Rieber style gaskets throughout the entire product offering to create a leak-free joint.



| Short Form Specification | |
|---|---|
| Pipe Standard: | CSA B182.2, ASTM D3034, F679 |
| Diameter Std.: | PSM |
| Nominal Sizes*: | 4" [100mm], 5" [125mm], 6" [150mm], 8" [200mm], 10" [250mm], 12" [300mm], 15" [375mm], 18" [450mm], 21" [525mm], 24" [600mm], 27" [675mm], 30" [750mm], 36" [900mm] |
| Dimension Ratios & Pipe Stiffness: | SDR 35 – 46 psi/320 kPa SDR 28 – 90 psi/625 kPa SDR 26 – 115 psi/790 kPa |
| Pressure Ratings: | Not rated for pressure applications |
| Lay Length: | 14' [4.27m] |
| Color: | Green, White |
| Pipe Compound: | ASTM D1784 Cell Class 12454 or 12364 |
| Pipe Options: | Solid Wall |
| Pipe Joint Std.: | ASTM D3212 |
| Max. Angular Joint Deflection: | As per NAPCO Royal Installation Guide |
| Gasket Standard: | CSA 182.2/ASTM F477 |
| Gasket Material Offerings: | Standard – SBR Optional – NBR |
| Certifications: | CSA B182.2, BNQ 3624-130/3624-135** |
| Installation Std.: | NAPCO Royal Installation Guide/CSA B182.11 |

*Contact NAPCO Royal Customer Service for product availability in each region.

**Contact NAPCO Royal Technical Services for product certifications in each region.

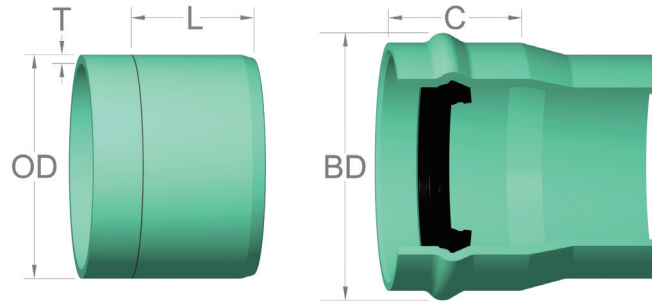


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GASKETED SEWER PIPE DIMENSIONS & PERFORMANCE

| Nom. Size in. [mm] | Outside Diameter (OD) in. [mm] | SDR | Pipe Stiffness psi [kPa] | Min. Wall Thickness (T) in. [mm] | Internal Diameter (ID) in. [mm] | Approx. Bell Diameter (BD) in. [mm] | Bell Depth (C) in. [mm] | Insertion Mark (L) in. [mm] |
|-----------------------|-----------------------------------|-----|-----------------------------|-------------------------------------|------------------------------------|--|------------------------------|--------------------------------|
| 4 [100] | 4.215 [107.05] | 35 | 46 [320] | 0.120 [3.06] | 3.975 [100.93] | 4.961 [126.01] | 3.5/4.25 [88.90/107.95] | 2.5/3.5 [63.50/88.90] |
| | | 28 | 90 [625] | 0.150 [3.82] | 3.915 [99.41] | | | |
| | | 26 | 115 [790] | 0.162 [4.12] | 3.891 [98.81] | | | |
| 5 [125] | 5.640 [143.25] | 28 | 90 [625] | 0.202 [5.12] | 5.236 [133.01] | 6.534 [165.96] | 4.25 [107.95] | 3.25 [82.55] |
| 6 [150] | 6.275 [158.88] | 35 | 46 [320] | 0.180 [4.55] | 5.915 [149.78] | 7.244 [184.00] | 5.0/4.5 [127.00/114.30] | 4.0/3.75 [101.60/95.25] |
| | | 28 | 90 [625] | 0.224 [5.69] | 5.827 [147.50] | | | |
| | | 26 | 115 [790] | 0.241 [6.13] | 5.793 [146.62] | | | |
| 8 [200] | 8.400 [213.35] | 35 | 46 [320] | 0.240 [6.10] | 7.920 [201.15] | 9.528 [242.01] | 5.5 [139.70] | 4.5/4.75 [114.30/120.65] |
| | | 26 | 115 [790] | 0.323 [8.21] | 7.754 [196.93] | | | |
| 10 [250] | 10.500 [266.70] | 35 | 46 [320] | 0.300 [7.62] | 9.900 [251.46] | 11.850 [300.99] | 7.5/7.25 [190.50/184.15] | 6.5/6.25 [165.10/158.75] |
| | | 26 | 115 [790] | 0.404 [10.26] | 9.692 [246.18] | | | |
| 12 [300] | 12.500 [317.50] | 35 | 46 [320] | 0.360 [9.07] | 11.780 [299.36] | 14.134 [359.00] | 7.25/7.75 [184.15/196.85] | 6.25/6.75 [158.75/171.45] |
| | | 26 | 115 [790] | 0.481 [12.21] | 11.538 [293.08] | | | |
| 15 [375] | 15.300 [388.63] | 35 | 46 [320] | 0.437 [11.10] | 14.426 [366.43] | 16.890 [429.01] | 8.25/9 [209.55/228.60] | 7.25/8.25 [184.15/209.55] |
| | | 26 | 115 [790] | 0.588 [14.95] | 14.125 [358.73] | | | |

Notes:

1. These dimensions are for estimating purposes only.
2. SDR = Standard Dimension Ratio
3. Approximate bell diameter shown applies to SDR 35 pipe.
4. Internal diameter calculated using nominal outside diameter and minimum wall thickness.
5. For bell depths and insertion marks shown as xx/xx, this represents bell depths and insertion marks for pipe made in Woodbridge, ON/Abbotsford, BC



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| GASKETED SEWER PIPE DIMENSIONS & PERFORMANCE | | | | | | | | |
|--|-----------------------------------|--------|-----------------------------|-------------------------------------|------------------------------------|--|------------------------------|--------------------------------|
| Nom. Size in. [mm] | Outside Diameter (OD) in. [mm] | Class | Pipe Stiffness psi [kPa] | Min. Wall Thickness (T) in. [mm] | Internal Diameter (ID) in. [mm] | Approx. Bell Diameter (BD) in. [mm] | Bell Depth (C) in. [mm] | Insertion Mark (L) in. [mm] |
| 18 [450] | 18.701 [475.00] | SDR 35 | 46 [320] | 0.534 [13.57] | 17.633 [447.86] | 20.748 [527.00] | 9.5/10.25 [241.30/260.35] | 8.5/8.75 [215.90/222.25] |
| | | SDR 26 | 115 [790] | 0.720 [18.27] | 17.261 [438.46] | | | |
| 21 [525] | 22.047 [560.00] | SDR 35 | 46 [320] | 0.632 [16.00] | 20.783 [528.00] | 24.212 [614.98] | 10.25/11 [260.35/279.40] | 9.25/10 [234.95/254.00] |
| 24 [600] | 24.803 [630.00] | SDR 35 | 46 [320] | 0.711 [18.00] | 23.381 [594.00] | 27.244 [692.00] | 11.0/12 [279.40/304.80] | 10/10.75 [254.00/273.05] |
| 27 [675] | 27.953 [710.00] | SDR 35 | 46 [320] | 0.801 [20.29] | 26.351 [669.42] | 30.551 [776.00] | 12.0 [304.80] | 11.0 [279.40] |
| 30 [750] | 32.000 [812.8] | SDR 35 | 46 [320] | 0.914 [23.22] | 30.172 [766.36] | 37.102 [942.39] | 15.125 [384.18] | 14.125 [358.78] |
| | | SDR 26 | 115 [790] | 1.231 [31.26] | 29.538 [750.28] | | | |
| 36 [900] | 38.300 [972.8] | SDR 35 | 46 [320] | 1.094 [27.79] | 36.112 [917.22] | 43.194 [1,097.13] | 19.125 [485.78] | 18.125 [460.38] |
| | | SDR 26 | 115 [790] | 1.473 [37.42] | 35.354 [897.96] | | | |

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5. For bell depths and insertion marks shown as xx/xx, this represents bell depths and insertion marks for pipe made in Woodbridge, ON/Abbotsford, BC

Perforation Option

Gasketed sewer pipe can be provided with perforations as a made-to-order item. The perforation pattern is shown below. Please note that the addition of perforations to this product voids the certification.

