

PRODUCT SPECIFICATION

# AQUASPRING® C900 IB PVC PIPE

## Gasketed Integral Bell

Our AquaSpring® C900 Gasketed Integral Bell PVC Pipe product line is manufactured to meet the needs of modern municipal water, wastewater, and reclaimed water systems. With top quality raw materials and modern processing technology, AquaSpring C900 pipe meets all industry standards in addition to our own rigorous quality control requirements.

AquaSpring C900 pipe utilizes Rieber style gaskets throughout the entire product offering to create a leak-free joint.

| Short Form Specification            |                                                                                                       |                                                            |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Pipe Standard:                      | AWWA C900-22                                                                                          |                                                            |
| Diameter Std.:                      | Cast Iron Outside Diameter (CIOD)                                                                     |                                                            |
| Nominal Sizes:                      | 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"                                               |                                                            |
| Dimension Ratios & Pressure Ratings | DR 51 – 80 psi<br>DR 41 – 100 psi<br>DR 32.5 – 125 psi<br>DR 25 – 165 psi<br>DR 21 – 200 psi          | DR 18 – 235 psi (185 psi)**<br>DR 14 – 305 psi (250 psi)** |
| Lay Length:                         | 20' [6.1m]<br>14' (contact local representative on availability, pipe not hydrotested at 14' lengths) |                                                            |
| Pipe Compound:                      | ASTM D1784 Cell Class 12454                                                                           |                                                            |
| Pipe Joint Std.:                    | ASTM D3139                                                                                            |                                                            |
| Max. Angular Joint Deflection:‡     | 1°                                                                                                    |                                                            |
| Gasket Standard:                    | ASTM F477, UL 157                                                                                     |                                                            |
| Gasket Material Offerings:          | Standard – SBR<br>Optional – NBR or EPDM                                                              |                                                            |
| Installation Std.:                  | AWWA C605                                                                                             |                                                            |

| Applications     | Potable Water                                                                                         | Wastewater  | Reclaimed Water |
|------------------|-------------------------------------------------------------------------------------------------------|-------------|-----------------|
| Color:           | Blue                                                                                                  | Green       | Purple          |
| Certifications:* | NSF 14, NSF 61<br>CSA B137.3*<br>UL 1285<br>FM 1612**<br>BNQ 3624-250 (24in)*,<br>BNQ 3660-950 (24in) | CSA B137.3* | CSA B137.3*     |

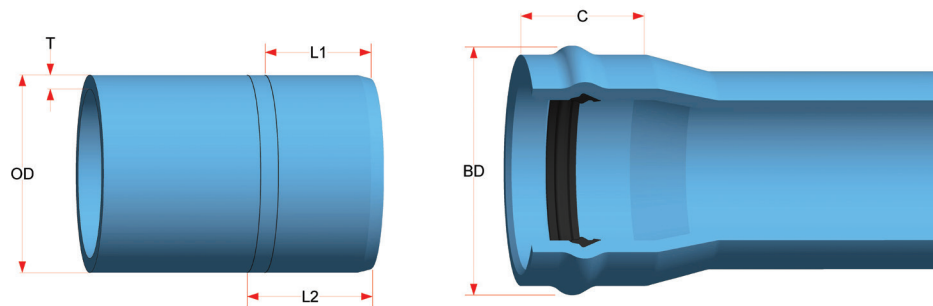
\*See Certification Letter for full explanation and list of exceptions.  
 \*\*FM 1612 calculates pressure ratings differently than AWWA for 4"-12" only with DR 18 as 185 psi and DR 14 as 250 psi.  
 ‡See Installation Guide for more information.



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| AQUASPRING® C900 IB PIPE DIMENSIONS & PERFORMANCE |                       |      |                             |                         |                        |                            |                |                                     |                                     |
|---------------------------------------------------|-----------------------|------|-----------------------------|-------------------------|------------------------|----------------------------|----------------|-------------------------------------|-------------------------------------|
| Nom. Size                                         | Outside Diameter (OD) | DR   | Pressure Class<br>psi [kPa] | Min. Wall Thickness (T) | Internal Diameter (ID) | Approx. Bell Diameter (BD) | Bell Depth (C) | 1 <sup>st</sup> Insertion Mark (L1) | 2 <sup>nd</sup> Insertion Mark (L2) |
| 4" [100mm]                                        | 4.800 [121.9]         | 25   | 165 [1150]                  | 0.192 [4.88]            | 4.416 [112.1]          | 6.250 [158.8]              | 5.000 [127]    | 3.375 [85.7]                        | 4.375 [111.1]                       |
|                                                   |                       | 18   | 235 [1620]                  | 0.267 [6.78]            | 4.266 [108.3]          |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305 [2130]                  | 0.343 [8.70]            | 4.114 [104.5]          |                            |                |                                     |                                     |
| 6" [150mm]                                        | 6.900 [175.3]         | 25   | 165 [1150]                  | 0.276 [7.00]            | 6.348 [161.3]          | 8.625 [219.1]              | 5.750 [146.1]  | 4.625 [117.5]                       | 5.625 [135.3]                       |
|                                                   |                       | 18   | 235 [1620]                  | 0.383 [9.72]            | 6.134 [155.9]          |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305 [2130]                  | 0.493 [12.50]           | 5.914 [150.3]          |                            |                |                                     |                                     |
| 8" [200mm]                                        | 9.050 [229.9]         | 25   | 165 [1150]                  | 0.362 [9.20]            | 8.326 [211.5]          | 11.500 [292.1]             | 7.000 [177.8]  | 5.625 [135.3]                       | 6.625 [168.3]                       |
|                                                   |                       | 18   | 235 [1620]                  | 0.503 [12.80]           | 8.044 [204.3]          |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305 [2130]                  | 0.646 [16.40]           | 7.758 [197.1]          |                            |                |                                     |                                     |
| 10" [250mm]                                       | 11.100 [281.9]        | 25   | 165 [1150]                  | 0.444 [11.30]           | 10.212 [259.3]         | 14.000 [355.6]             | 7.250 [184.2]  | 6.125 [155.6]                       | 7.125 [181.0]                       |
|                                                   |                       | 18   | 235 [1620]                  | 0.617 [15.70]           | 9.866 [250.3]          |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305 [2130]                  | 0.793 [20.10]           | 9.514 [241.7]          |                            |                |                                     |                                     |
| 12" [300mm]                                       | 13.200 [335.3]        | 25   | 165 [1150]                  | 0.528 [13.40]           | 12.144 [308.5]         | 16.563 [420.7]             | 8.000 [203.2]  | 6.875 [174.6]                       | 7.875 [200]                         |
|                                                   |                       | 18   | 235 [1620]                  | 0.733 [18.60]           | 11.734 [298.1]         |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305 [2130]                  | 0.943 [23.90]           | 11.314 [287.5]         |                            |                |                                     |                                     |
| 14" [350mm]                                       | 15.300 [388.6]        | 32.5 | 125 [860]                   | 0.471 [12.0]            | 14.358 [364.7]         | 19.063 [484.2]             | 9.000 [228.6]  | 7.500 [190.5]                       | 8.500 [215.9]                       |
|                                                   |                       | 25   | 165 [1150]                  | 0.612 [15.6]            | 14.076 [357.5]         |                            |                |                                     |                                     |
|                                                   |                       | 21   | 200                         | 0.729                   | 13.842                 |                            |                |                                     |                                     |
|                                                   |                       | 18   | 235 [1620]                  | 0.850 [21.6]            | 13.600 [345.4]         |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305                         | 1.093                   | 13.114                 |                            |                |                                     |                                     |
| 16" [400mm]                                       | 17.400 [442.0]        | 41   | 100                         | 0.424                   | 16.552                 | 21.750 [552.5]             | 10.000 [254.0] | 8.500 [215.9]                       | 9.500 [241.3]                       |
|                                                   |                       | 32.5 | 125 [860]                   | 0.535 [13.6]            | 16.330 [414.8]         |                            |                |                                     |                                     |
|                                                   |                       | 25   | 165 [1150]                  | 0.696 [17.7]            | 16.008 [406.6]         |                            |                |                                     |                                     |
|                                                   |                       | 21   | 200                         | 0.829                   | 15.742                 |                            |                |                                     |                                     |
|                                                   |                       | 18   | 235 [1620]                  | 0.967 [24.6]            | 15.466 [392.8]         |                            |                |                                     |                                     |
|                                                   |                       | 14   | 305                         | 1.243                   | 14.914                 |                            |                |                                     |                                     |

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| AQUASPRING® C900 IB PIPE DIMENSIONS & PERFORMANCE |                       |      |                             |                            |                           |                                  |                   |                                           |                                           |
|---------------------------------------------------|-----------------------|------|-----------------------------|----------------------------|---------------------------|----------------------------------|-------------------|-------------------------------------------|-------------------------------------------|
| Nom. Size                                         | Outside Diameter (OD) | DR   | Pressure Class<br>psi [kPa] | Min. Wall Thickness<br>(T) | Internal Diameter<br>(ID) | Approx. Bell<br>Diameter<br>(BD) | Bell Depth<br>(C) | 1 <sup>st</sup><br>Insertion<br>Mark (L1) | 2 <sup>nd</sup><br>Insertion Mark<br>(L2) |
| 18"<br>[450mm]                                    | 19.500<br>[459.3]     | 41   | 100                         | 0.476                      | 18.548                    | 23.563<br>[598.5]                | 10.375<br>[263.5] | 8.875<br>[225.4]                          | 9.875<br>[250.8]                          |
|                                                   |                       | 32.5 | 125 [860]                   | 0.600 [15.2]               | 18.300 [464.8]            |                                  |                   |                                           |                                           |
|                                                   |                       | 25   | 165 [1150]                  | 0.780 [19.8]               | 17.940 [455.7]            |                                  |                   |                                           |                                           |
|                                                   |                       | 21   | 200                         | 0.929                      | 17.642                    |                                  |                   |                                           |                                           |
|                                                   |                       | 18   | 235 [1620]                  | 1.083 [27.5]               | 17.334 [440.3]            |                                  |                   |                                           |                                           |
| 20"<br>[500mm]                                    | 21.600<br>[548.6]     | 32.5 | 125 [860]                   | 0.665 [16.9]               | 20.270 [514.9]            | 26.063<br>[662.0]                | 11.000<br>[279.4] | 9.500<br>[241.3]                          | 10.500<br>[266.7]                         |
|                                                   |                       | 25   | 165 [1150]                  | 0.864 [22.0]               | 19.872 [504.7]            |                                  |                   |                                           |                                           |
|                                                   |                       | 21   | 200                         | 1.029                      | 19.542                    |                                  |                   |                                           |                                           |
|                                                   |                       | 18   | 235 [1620]                  | 1.200 [30.5]               | 19.200 [487.7]            |                                  |                   |                                           |                                           |
| 24"<br>[600mm]                                    | 25.800<br>[655.3]     | 41   | 100                         | 0.629                      | 24.542                    | 31.063<br>[789.0]                | 13.000<br>[330.2] | 11.500<br>[292.1]                         | 12.500<br>[317.5]                         |
|                                                   |                       | 32.5 | 125 [860]                   | 0.794 [20.2]               | 24.212 [615.0]            |                                  |                   |                                           |                                           |
|                                                   |                       | 25   | 165 [1150]                  | 1.032 [26.2]               | 23.736 [602.9]            |                                  |                   |                                           |                                           |
|                                                   |                       | 21   | 200                         | 1.229                      | 23.342                    |                                  |                   |                                           |                                           |
|                                                   |                       | 18   | 235 [1620]                  | 1.433 [36.4]               | 22.934 [582.5]            |                                  |                   |                                           |                                           |
| 30"<br>[750mm]                                    | 32.000<br>[812.8]     | 51   | 80 [550]                    | 0.627 [15.90]              | 30.746 [781]              | 37.500<br>[952.5]                | 15.125<br>[384.2] | 13.625<br>[346.1]                         | 14.625<br>[371.5]                         |
|                                                   |                       | 41   | 100 [650]                   | 0.780 [19.80]              | 30.440 [773.2]            |                                  |                   |                                           |                                           |
|                                                   |                       | 32.5 | 125 [860]                   | 0.985 [25.00]              | 30.030 [762.8]            |                                  |                   |                                           |                                           |
|                                                   |                       | 25   | 165 [1150]                  | 1.280 [32.50]              | 29.440 [747.8]            |                                  |                   |                                           |                                           |
|                                                   |                       | 21   | 200                         | 1.524                      | 28.952                    |                                  |                   |                                           |                                           |
|                                                   |                       | 18   | 235 [1620]                  | 1.778 [45.20]              | 28.444 [722.4]            |                                  |                   |                                           |                                           |
| 36"<br>[900mm]                                    | 38.300<br>[972.8]     | 51   | 80 [550]                    | 0.751 [19.10]              | 36.798 [934.6]            | 44.500<br>[1130.3]               | 19.125<br>[485.8] | 17.625<br>[447.7]                         | 18.625<br>[473.1]                         |
|                                                   |                       | 41   | 100 [650]                   | 0.934 [23.70]              | 36.432 [925.4]            |                                  |                   |                                           |                                           |
|                                                   |                       | 32.5 | 125 [860]                   | 1.178 [29.90]              | 35.944 [913.0]            |                                  |                   |                                           |                                           |
|                                                   |                       | 25   | 165 [1150]                  | 1.532 [38.90]              | 35.236 [895.0]            |                                  |                   |                                           |                                           |
|                                                   |                       | 21   | 200                         | 1.824                      | 34.652                    |                                  |                   |                                           |                                           |

## Notes:

1. These dimensions are for estimating purposes only. All dimensions not in brackets are in inches unless otherwise specified.
2. Products certified to CSA B137.3 have dimensions in brackets in millimeters unless otherwise specified.
3. DR = Dimension Ratio
4. AWWA and CSA Pressure Class @ 73°F [23°C] which includes a 2:1 safety factor.
5. Internal diameter calculated using nominal outside diameter and minimum wall thickness.
6. Dimension given for Approx. Bell Diameter (BD) is for highest pressure class.