



# Waterworks

## Pressure Water Pipe Products

### Submittal and Data Sheet

#### AWWA C900 Distribution Pipe, Cast Iron Pipe Size (Gasketed)

February 2001

##### Pressure Class 100 psi - DR 25

UL Listed

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
4	4.800	4.38	0.192	190
6	6.900	6.30	0.276	380
8	9.050	8.27	0.362	660
10	11.100	10.15	0.444	1010
12	13.200	12.07	0.528	1410

##### Pressure Class 150 psi - DR 18

UL Listed, FM Approved

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
4	4.800	4.22	0.267	260
6	6.900	6.08	0.383	520
8	9.050	7.97	0.503	890
10	11.100	9.78	0.617	1340
12	13.200	11.63	0.733	1910

##### Pressure Class 200 psi - DR 14

UL Listed, FM Approved

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
4	4.800	4.06	0.343	320
6	6.900	5.84	0.493	650
8	9.050	7.66	0.646	1120
10	11.100	9.40	0.793	1690
12	13.200	11.18	0.943	2400

#### AWWA C905 Transmission Pipe, Cast Iron Pipe Size (Gasketed)

##### Pressure Rated 165 psi - DR 25

UL Listed

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
14	15.300	13.99	0.612	1890
16	17.400	15.91	0.696	2470
18	19.500	17.83	0.780	3090
20	21.600	19.75	0.864	3790
24	25.800	23.59	1.032	5430

##### Pressure Rated 235 psi - DR 18

UL Listed

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
14	15.300	13.48	0.850	2570
16	17.400	15.33	0.967	3350
18	19.500	17.18	1.083	4200
20	21.600	19.03	1.200	5200
24	25.800	23.73	1.433	7730

**Pipe Material:** Pipe compound meets ASTM D 1784, cell class 12454.

**Pipe Joints:** Pipe is manufactured with thickened integral bells; bells include elastomeric gaskets. The gasket meets the requirements of ASTM F 477.

**Agency:** Certified by Underwriters Laboratories, Inc.® to ANSI/NSF Standard 61. Underwriters Laboratories, Inc.® also tests our C900 to the requirements of the Uniform Plumbing Code™.

**Installation:** The pipe system design engineer and installer should refer to the following installation guides: AWWA C605 and PW Pipe's *Installation Guide for PVC Water Pipe*.

**Hydrostatic**

**Proof Testing:** Every standard and random length of PW Pipe's C900 and C905 pipe is individually pressure tested to the requirements of AWWA.

PW Pipe C900/C905 products also undergo additional in-house quality assurance testing, such as impact resistance, flattening, quick burst, and extrusion quality, where applicable.

## Iron Pipe Size (IPS) Pipe For Potable Water Systems

### Pipe with Solvent-Weld Integral Bells

#### P.R. 160 psi - SDR 26

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
1¼	1.660	1.52	0.064	21
1½	1.900	1.74	0.073	28
2	2.375	2.18	0.091	43
2½	2.875	2.63	0.110	64
3	3.500	3.21	0.135	94
4	4.500	4.13	0.173	150
6	6.625	6.07	0.255	330
8	8.625	7.91	0.332	550

#### Schedule 40

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
½	0.840	0.60	0.109	16
¾	1.050	0.80	0.113	22
1	1.315	1.03	0.133	32
1¼	1.660	1.36	0.140	43
1½	1.900	1.59	0.145	52
2	2.375	2.04	0.154	69
2½	2.875	2.44	0.203	110
3	3.500	3.03	0.216	140
4	4.500	3.99	0.237	200
6	6.625	6.02	0.280	360
8	8.625	7.93	0.332	550
10	10.750	9.96	0.365	780
12	12.750	11.88	0.406	1010

#### P.R. 200 psi - SDR 21

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
¾	1.050	0.92	0.060	12
1	1.315	1.18	0.063	17
1¼	1.660	1.49	0.079	26
1½	1.900	1.70	0.090	33
2	2.375	2.13	0.113	53
2½	2.875	2.58	0.137	77
3	3.500	3.14	0.167	110
4	4.500	4.04	0.214	180
6	6.625	5.94	0.316	400

### Pipe with Gasketed Integral Bells

#### P.R. 160 psi - SDR 26

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
3	3.500	3.21	0.135	96
4	4.500	4.13	0.173	160
6	6.625	6.07	0.255	340
8	8.625	7.91	0.332	570
10	10.750	9.86	0.413	900
12	12.750	11.70	0.490	1250

#### P.R. 200 psi - SDR 21

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')
2	2.375	2.13	0.113	52
2½	2.875	2.58	0.137	77
3	3.500	3.14	0.167	120
4	4.500	4.04	0.214	190
6	6.625	5.94	0.316	410
8	8.625	7.74	0.410	690
10	10.750	9.65	0.511	1090
12	12.750	11.45	0.606	1520

**Pipe Material:** Pipe compound meets ASTM D 1784, cell class 12454.

**Pipe Design:** Pressure rated pipe meets ASTM D 2241; Schedule 40 pipe meets ASTM D 1785. Gaskets meet ASTM F 477.

**Agency:** Classified to ANSI/NSF Standard 61 for potability. Applicable products are tested to the requirements of the Uniform Plumbing Code™.

**Installation:** Refer to installation instructions in PWpipe's *Installation Guide for PVC Water Pipe* and on labels supplied on the pipe.

**Testing:** PWPipe subjects its IPS pressure pipe to several ASTM tests, including dimensional compliance, impact resistance, burst, flattening, and joint integrity.

**Other Sizes:** PWPipe also makes other sizes and pressure ratings of IPS size pressure pipe. Consult PWPipe for details.

### PWPipe PWPurple Plus™ Color Coded Pipe for Non-Potable Reclaimed/Reuse Water Systems

PWPipe manufactures a pipe product that is tinted purple for use in non-potable, reclaimed/reuse applications. In addition to the purple color coding, the print on the pipe includes the following warning: "Caution: Reclaimed Water - Do Not Drink - Peligro Agua Impura - No Beber".

**Sizes:** PWPurple Plus™ can be manufactured in any of the diameter and pressure combinations available in our standard potable water piping products.

**Note:** Underwriters Laboratories, Inc.® and FM listings are not applicable for these products. However, these products otherwise meet the same AWWA and ASTM specifications as the potable water pipe sizes upon which they are based.

- General Notes:**
1. Inside diameters may vary due to allowable manufacturing tolerances.
  2. Approximate weights are for estimating purposes only.
  3. All orders are subject to final acceptance by PWPipe sales management.