

1 Exam Prep

Standard for Polyvinyl Chloride Pressure Pipe ANSI/AWWA C900-07

Questions and Answers

Part 1

1. Which of the following statement is not a correct statement?
 - A. A “DR” is the average O.D. divided by the wall thickness
 - B. The “DR” is outside diameter to wall thickness
 - C. A “DR” is constant for all pipe sizes of a specific “DR” series
 - D. The higher the “DR” the higher the working pressure
2. The wall thickness of 6” pressure class 235 PVC pipe is _____.
 - A. 0.383”
 - B. 0.493”
 - C. 0.046”
 - D. 0.059”
3. The pressure class for six inch DR 18 pipe is _____.
 - A. 100 psi
 - B. 235 psi
 - C. 200 psi
 - D. 500 psi
4. At _____ intervals, PVC water pipe shall bear markings.
 - A. 2’
 - B. 4’
 - C. 5’ max
 - D. 10’ max
5. An 8” DR 18 pipe with a pressure class of 150 psi has its couplings tested for hydrostatic integrity. The pipe temperature is 90 degrees. The coupling shall not burst, balloon or fail when subjected to an internal test pressure of _____ psi.
 - A. 225 psi
 - B. 450 psi
 - C. 600 psi
 - D. 755 psi

Part 2

1. The Dimension Ratio is determined by dividing the _____ diameter of the pipe by its minimum wall thickness.

- A. Maximum outside
- B. Average inside
- C. Average outside
- D. Minimum inside

2. Determine the DR value for a Polyvinyl Chloride pipe with an average outside diameter of 6.9 inches and minimum wall thickness of 0.276 inches.

- A. 14 DR
- B. 18 DR
- C. 25 DR
- D. 40 DR

3. The minimum wall thickness in the ring-groove and bell-entry sections shall equal or exceed the _____ .

- A. Minimum wall thickness of the pipe barrel
- B. Average wall thickness of the pipe barrel
- C. Minimum wall thickness of the pipe
- D. Average wall thickness of the pipe

4. A Polyvinyl Chloride pipe with a DR value of 18 shall not fall, balloon, burst or weep at the sustained pressure of _____ .

- A. 650 psi
- B. 500 psi
- C. 350 psi
- D. 755 psi

5. Polyvinyl Chloride pipe identification markings shall include _____ .

- A. Nominal size, OD base and dimension ratio
- B. Manufacturers name and products record code
- C. AWWA designation number and pressure class
- D. All of the above

6. The quick-burst strength of pipe produced from each extrusion outlet shall be tested at the beginning of the production, thereafter one sample shall be tested _____ .

- A. Every 12 hours
- B. Each eight hour shift
- C. Every 24 hours
- D. As required by the engineer

7. AWWA Standard for Polyvinyl Chloride Pressure Pipe for water 4 inches through 12 inches is _____ .

- A. C900
- B. C603
- C. C302
- D. C700

8. The term "DR" stands for _____ .

- A. Depth Rating
- B. Dimension Ratio
- C. Density Reading
- D. Design Requirement

9. The burst pressure requirement for a Polyvinyl Chloride pipe with a DR of 25 is _____ .

- A. 985 psi
- B. 755 psi
- C. 535 psi
- D. 350 psi

10. Pipe couplings and solvent cements that are damaged when received shall be replaced by the _____ .

- A. Owner
- B. Manufacturer or supplier
- C. Contractor
- D. Insurance or bonding company

11. The designation "PVC" stands for _____ .

- A. Polyvinyl Chloride Pressure Pipe
- B. Polyvinyl Chloride Pressure Pipe For Water
- C. Polyvinyl Chloride
- D. Polyvinyl Chloride Pressure Pipe For Water, 4" Through 12"

12. Polyvinyl Chloride pipe and couplings shall be made with an established hydrostatic-design-basis (HDB) rating of _____ .

- A. 1000 psi
- B. 2000 psi
- C. 3000 psi
- D. 4000 psi

13. Polyvinyl Chloride solvent cements shall be manufactured to conform with the requirements of _____ .

- A. AWWA C900
- B. ASTM D2564
- C. AWWA C700
- D. ASTM D2672

14. The wall thickness tolerance for a Polyvinyl Chloride pipe of 4.5 inches O.D. and a DR value of 14 is _____ .

- A. 4 inches
- B. 5 inches
- C. 6 inches
- D. 7 inches

15. Identification marking on Polyvinyl Chloride pipe shall be applied at intervals of not more than _____ .

- A. 5 feet
- B. 10 feet
- C. 15 feet
- D. 20 feet

16. PVC pipe shall be furnished in standard laying lengths of _____ feet unless otherwise agreed at purchase.

- A. 5
- B. 10
- C. 15
- D. None of the above

17. The manufacturer shall maintain quality control records of PVC for a period of not less than _____ years.

- A. 1
- B. 2
- C. 3
- C. 4

18. According to the ANSI/AWWA C900-97, when marking pipe, it is not necessary to include the _____ .

- A. AWWA pressure class
- B. Date on which test took place
- C. Dimension ratio
- D. Nominal size and OD base

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Answers

Part 1

1. D Section 3, Table 1
2. A Table 1
3. B Table 1
4. C Section 6.1.2
5. A Section 4.4.4

Solution: 2 times pressure class

When the temperature exceeds 77 degrees, use the pressure reduction coefficient found in the table

$4\ 90F = .75$

$150\ \text{psi} \times 2 = 300\ \text{psi} \times .75 = 225\ \text{psi}$

Part 2

1. C Section 3(1)
2. C Section 3(1)
3. A Section 4.3.2.2(a)
4. B Table 2
5. D Section 6.1.2
6. C Section 5.1.4
7. A Cover page
8. B Section 3(1)
9. C Table 3
10. B Section 6.2.2
11. C Cover page
12. D Section 3(3)
13. B Section 2
14. D Table 1
15. A Section 6.1.2
16. D Section 4.32.3
17. B Section 5.2
18. B Section 3