## Automotive Heating and Air Conditioning, 9th Edition

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1. Most piston compressors use what type of valves?	1.	
A) Poppet	_	
B) Reed		
C) Sliding		
D) On-off gate-type valve		
2. Which of the following is NOT a major component of most compressors?	2.	
A) Piston and rings		
B) Reed valves		
C) Clutch		
D) Fins and tubes		
3. A compressor belt tensioner is bouncing rapidly with the engine running. What should the	3.	
technician do?		
A) Nothing, this is normal		
B) Remove the tensioner and lubricate the dampener		
C) Replace the tensioner		
D) Tighten the tensioner center bolt		
4. Increasing the number of slots in the clutch armature helps to	4.	
A) increase holding power		
B) cool the hub		
C) reduce bearing vibration		
D) eliminate stray magnetic fields		
5. Which of the following is an advantage offered by a scroll-type compressor?	5.	
A) Smooth engagement		
B) Low engagement torque		
C) Ability to use a small clutch		
D) All of these		
6. In a piston-type compressor, the pistons are driven by a	6.	
A) crankshaft		
B) swash plate		
C) wobble plate		
D) Any of the above, depending on the compressor		
7. A compressor speed (belt lock) sensor is used by the HVAC ECM to	7.	
A) prevent a locked-up compressor from destroying the engine drive belt	_	
B) determine if the compressor is running by comparing the compressor and engine speed signals		
C) vary the displacement of the compressor based on compressor speed		
D) Both A and B		

8. The basic designs of AC compressors include,, and	8
A) piston, vane, and scroll	
B) radial, piston, and vane	
C) balanced, piston, and scroll	
D) fixed scroll, moveable scroll, and piston	
9. The clutch plate must be removed to	9.
A) get access to the compressor shaft seal	
B) remove and replace the compressor	
C) change the compressor oil	
D) change the compressor belt	
10. Most newer compressors use a seal on the compressor shaft.	10.
A) cork	
B) ceramic	
C) lip	

D) boron

Answer Key Testname: AHAC9\_4A

- 1. B
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- 2. D
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- 3. C
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- 4. A
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- 5. D
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- 6. D
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- 7. D
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- 8. A Page Ref: 34
- 9. A
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