

xconnection repair quiz

Instructions

1. Print this quiz from my website and write in the answers from the reference material below.
2. Print the reference materials from my website [click here](#). This is a large file and could take several minutes.
3. Answer the questions completely using the reference materials.
4. Go to the bottom of this page for course verification forms and mailing instructions.

12 hour course qualifies for the following Credentials:

Fees: \$100

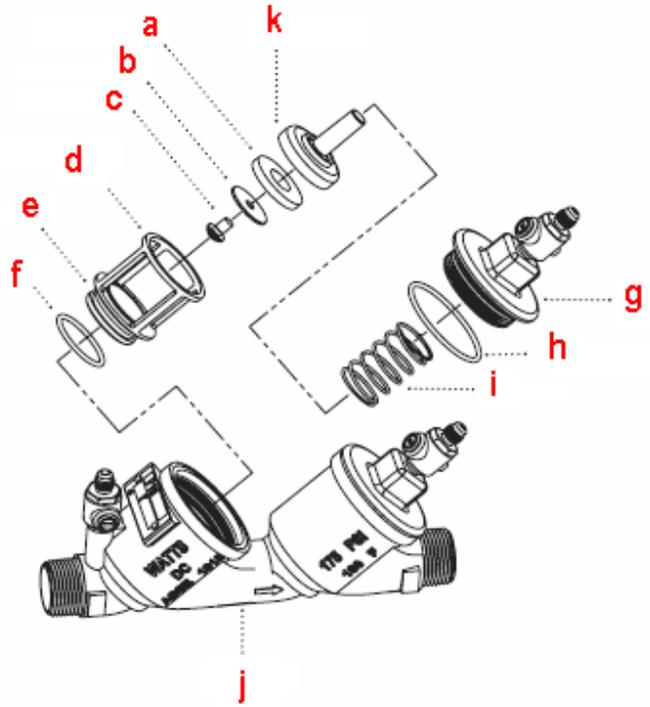
1. Commercial Plumbing Inspector
2. Journeyman Plumber License
3. Journeyman Plumber-Restricted Appliance License
4. Master Plumber License
5. Master Plumber-Restricted Appliance License
6. Cross Connection Control Tester
7. UDC-Plumbing Inspector Certification

Repair Kit Matrix

1. The letters HK present? _____
2. The letters UK represents? _____
3. The letters AK represents? _____
4. The letters RK represents? _____
5. The letter M represents? _____
6. The letter T represents? _____
7. The letter S represents? _____
8. The number 1 represents? _____
9. The number 2 represents? _____
10. The number 3 represents? _____
11. The number 4 represents? _____
12. The letters RT represents? _____
13. The letters SS represents? _____
14. The letters RV represents? _____

- 15. The letters SM represents? _____
- 16. The letters RC represents? _____
- 17. The letters HW represents? _____
- 18. The letters CK represents? _____
- 19. The letter V represents? _____
- 20. The letter C represents? _____
- 21. The letter B represents? _____

Series 719
Double Check Valve Assemblies
Sizes 1/2" - 2"

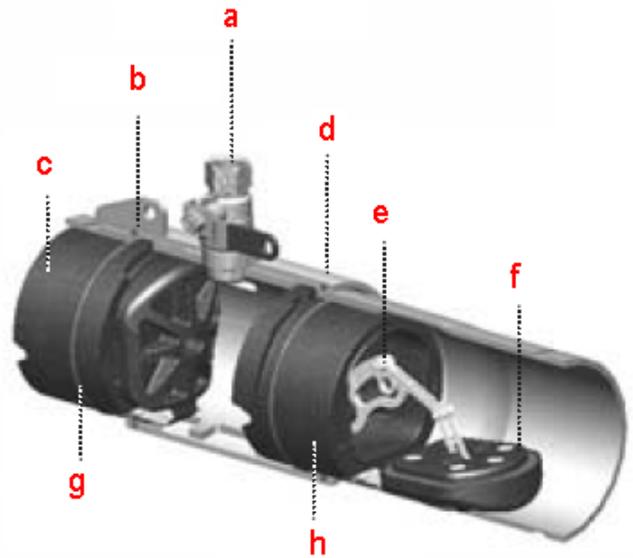


Use the above diagram to answer questions 22-32

- 22. The letter 'a' represents? _____
- 23. The letter 'b' represents? _____
- 24. The letter 'c' represents? _____
- 25. The letter 'd' represents? _____
- 26. The letter 'e' represents? _____
- 27. The letter 'f' represents? _____

- 28. The letter 'g' represents? _____
- 29. The letter 'h' represents? _____
- 30. The letter 'i' represents? _____
- 31. The letter 'j' represents? _____
- 32. The letter 'k' represents? _____

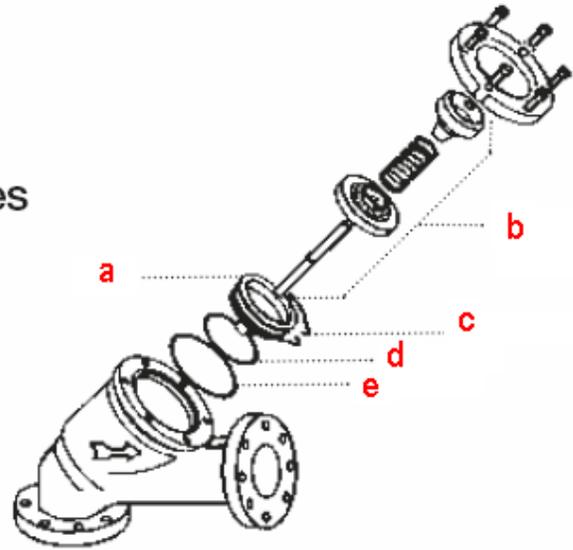
Series
757, 757DCDA
757a, 757aDCDA
Double Check Valve Assemblies
Double Check Detector Assemblies



Use the above diagram to answer questions 33-40

- 33. The letter 'a' represents? _____
- 34. The letter 'b' represents? _____
- 35. The letter 'c' represents? _____
- 36. The letter 'd' represents? _____
- 37. The letter 'e' represents? _____
- 38. The letter 'f' represents? _____
- 39. The letter 'g' represents? _____
- 40. The letter 'h' represents? _____

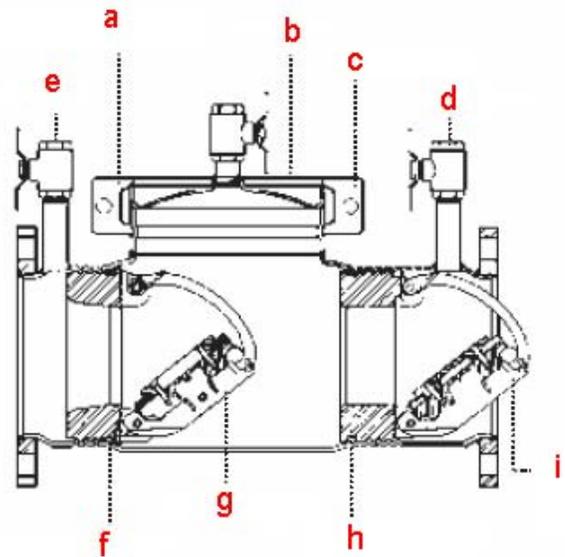
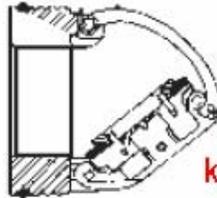
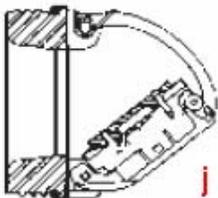
Series 773, 773DCDA
 Double Check Valve Assemblies
 Double Check Detector Assemblies
 Sizes 4" and 6"



Use the above diagram to answer questions 41-45

- 41. The letter 'a' represents? _____
- 42. The letter 'b' represents? _____
- 43. The letter 'c' represents? _____
- 44. The letter 'd' represents? _____
- 45. The letter 'e' represents? _____

Series 775, 775DCDA
 Double Check Valve Assemblies
 Double Check Detector Assemblies
 Sizes 3" – 8"



Use the above diagram to answer questions 46-56

- 46. The letter 'a' represents? _____
- 47. The letter 'b' represents? _____
- 48. The letter 'c' represents? _____
- 49. The letter 'd' represents? _____
- 50. The letter 'e' represents? _____
- 51. The letter 'f' represents? _____
- 52. The letter 'g' represents? _____
- 53. The letter 'h' represents? _____
- 54. The letter 'i' represents? _____
- 55. The letter 'j' represents? _____
- 56. The letter 'k' represents? _____

Trouble Shooting Guide for Double check assemblies and double check detector assemblies

57. A double check valve fails to hold 1.0 PSID minimum due to debris on check disc surface. Should this valve be replaced?

- a. yes
- b. no

58. What is the solution for the above problem? _____

59. A double check valve fails to hold 1.0 PSID minimum due to leaking gate valve. Should this valve be replaced?

- a. yes
- b. no

60. What is the solution for the above problem? _____

61. A double check valve fails to hold 1.0 PSID minimum due to damaged seat disc or seat O-ring. Should this valve be replaced?

- a. yes
- b. no

62. What is the solution for the above problem? _____

63. A double check valve fails to hold 1.0 PSID minimum due to a damaged guide holding the check open. Should this valve be replaced?

- a. yes
- b. no

64. What is the solution for the above problem? _____

65. A double check valve fails to hold 1.0 PSID minimum due to a weak or broken spring. Should this valve be replaced?

- a. yes
- b. no

66. What is the solution for the above problem? _____

67. A double check valve has chatter during flow conditions due to worn, damaged or defective guides. Should this valve be replaced?

- a. yes
- b. no

68. What is the solution for the above problem? _____

69. A double check valve has low flows passing through mainline valve (DCDA only) and the check(s) on the mainline are fouled. Should the valve be replaced?

- a. yes
- b. no

70. What is the solution for the above problem? _____

71. A double check valve has low flows passing through mainline valve (DCDA only) and the meter strainer on the bypass line is plugged. Should the valve be replaced?

- a. yes
- b. no

72. What is the solution for the above problem? _____

73. A double check valve has low flows passing through mainline valve (DCDA only) and the mainline seat disc or seat is damaged. Should the valve be replaced?

- a. yes
- b. no

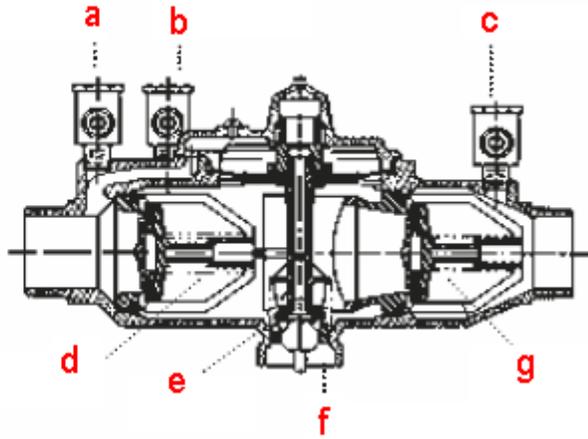
74. What is the solution for the above problem? _____

75. A double check valve has low flows passing through mainline valve (DCDA only) and has a broken mainline spring. Should the valve be replaced?

- a. yes
- b. no

76. What is the solution for the above problem? _____

Series 009
 Reduced Pressure Zone
 Assemblies
 Sizes 1/4" – 2"



Use the above diagram to answer questions 77-83

77. The letter 'a' represents? _____

78. The letter 'b' represents? _____

79. The letter 'c' represents? _____

80. The letter 'd' represents? _____

81. The letter 'e' represents? _____

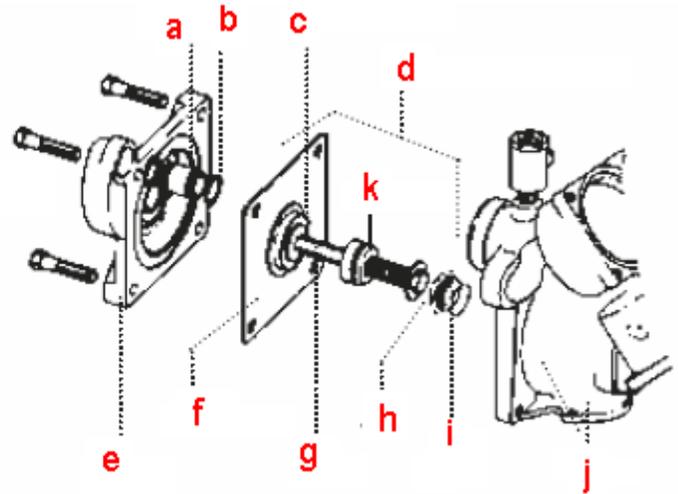
82. The letter 'f' represents? _____

83. The letter 'g' represents? _____

Series 909

Reduced Pressure Zone Assemblies

3/4" - 1"

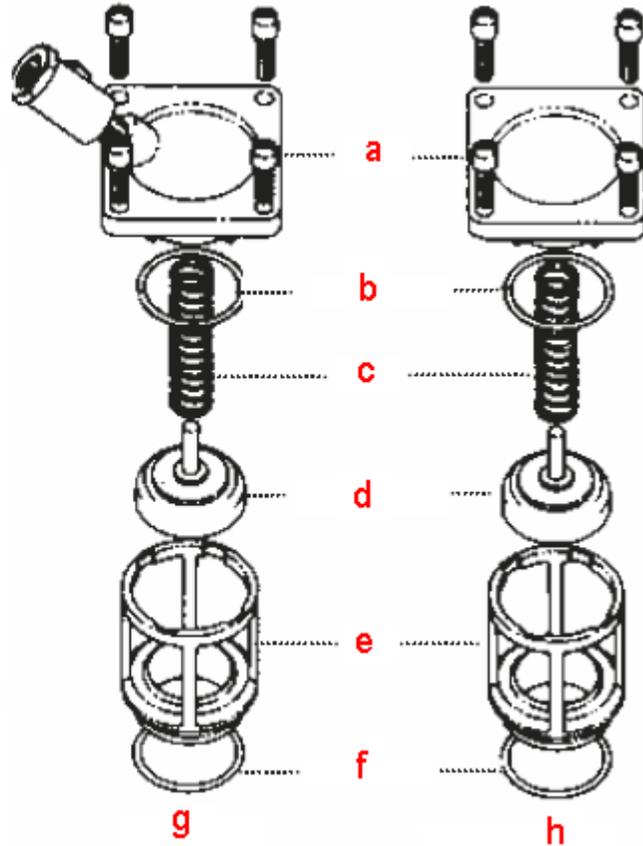


Use the above diagram to answer questions 84-94

- 84. The letter 'a' represents? _____
- 85. The letter 'b' represents? _____
- 86. The letter 'c' represents? _____
- 87. The letter 'd' represents? _____
- 88. The letter 'e' represents? _____
- 89. The letter 'f' represents? _____
- 90. The letter 'g' represents? _____
- 91. The letter 'h' represents? _____
- 92. The letter 'i' represents? _____
- 93. The letter 'j' represents? _____
- 94. The letter 'k' represents? _____

Series 909

Reduced Pressure Zone
Assemblies
Sizes 3/4" - 2"



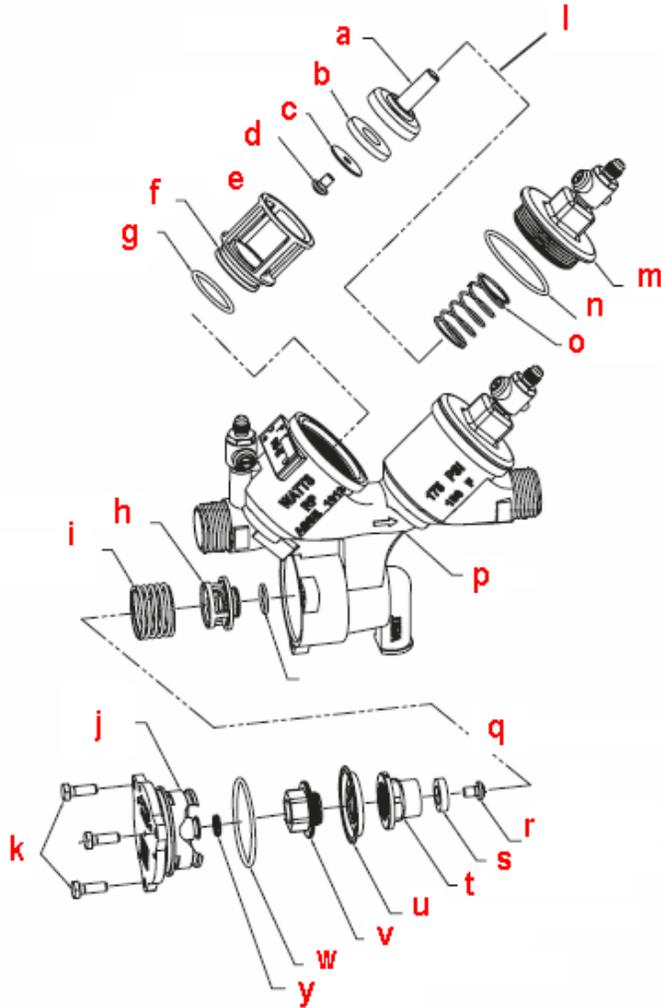
Use the above diagram to answer questions 95-102

- 95. The letter 'a' represents? _____
- 96. The letter 'b' represents? _____
- 97. The letter 'c' represents? _____
- 98. The letter 'd' represents? _____
- 99. The letter 'e' represents? _____
- 100. The letter 'f' represents? _____
- 101. The letter 'g' represents? _____
- 102. The letter 'h' represents? _____

Series 919

Reduced Pressure Zone Assemblies

Sizes 1/4" - 2"



Use the above diagram to answer questions 103-126

103. The letter 'a' represents? _____

104. The letter 'b' represents? _____

105. The letter 'c' represents? _____

106. The letter 'd' represents? _____

107. The letter 'e' represents? _____

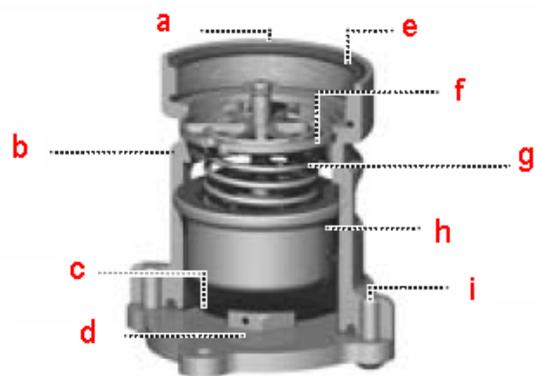
108. The letter 'f' represents? _____

109. The letter 'g' represents? _____

110. The letter 'h' represents? _____

- 111. The letter 'i' represents? _____
- 112. The letter 'j' represents? _____
- 113. The letter 'k' represents? _____
- 114. The letter 'l' represents? _____
- 115. The letter 'm' represents? _____
- 116. The letter 'n' represents? _____
- 117. The letter 'o' represents? _____
- 118. The letter 'p' represents? _____
- 119. The letter 'q' represents? _____
- 120. The letter 'r' represents? _____
- 121. The letter 's' represents? _____
- 122. The letter 't' represents? _____
- 123. The letter 'u' represents? _____
- 124. The letter 'v' represents? _____
- 125. The letter 'w' represents? _____
- 126. The letter 'y' represents? _____

Series 957, 957RPDA
Reduced Pressure Zone Assemblies
Reduced Pressure Detector Assemblies

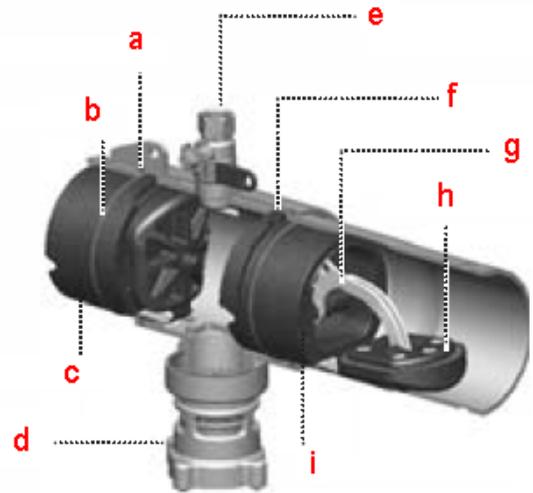


Use the above diagram to answer questions 127-135

- 127. The letter 'a' represents? _____
- 128. The letter 'b' represents? _____

- 129. The letter 'c' represents? _____
- 130. The letter 'd' represents? _____
- 131. The letter 'e' represents? _____
- 132. The letter 'f' represents? _____
- 133. The letter 'g' represents? _____
- 134. The letter 'h' represents? _____
- 135. The letter 'i' represents? _____

Series 957, 957RPDA
 Reduced Pressure Zone Assemblies
 Reduced Pressure Detector Assemblies
 Sizes 2½" – 10"



Use the above diagram to answer questions 136-144

- 136. The letter 'a' represents? _____
- 137. The letter 'b' represents? _____
- 138. The letter 'c' represents? _____
- 139. The letter 'd' represents? _____
- 140. The letter 'e' represents? _____
- 141. The letter 'f' represents? _____
- 142. The letter 'g' represents? _____
- 143. The letter 'h' represents? _____

144. The letter 'i' represents? _____

Trouble shooting guide-reduced pressure zone assemblies and reduced pressure detector assemblies

146. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that spits periodically from the vent due to fluctuating supply pressure. Should this valve be replaced?

- a. yes
- b. no

147. What is the solution for the above problem? _____

148. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that spits periodically from the vent due to fluctuating downstream pressure. Should this valve be replaced?

- a. yes
- b. no

149. What is the solution for the above problem? _____

150. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that drips continually from the vent due to a fouled first check. Should this valve be replaced?

- a. yes
- b. no

151. What is the solution for the above problem? _____

152. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that drips continually from the vent due to a damaged or fouled relief valve seat. Should this valve be replaced?

- a. yes
- b. no

153. What is the solution for the above problem? _____

154. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that drips continually from the vent due to a relief valve piston 'O' ring not free to move due to pipe scale, dirt or build-up for mineral deposits. Should this valve be replaced?

- a. yes
- b. no

155. What is the solution for the above problem? _____

156. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that drips continually from the vent due to excessive backpressure, freezing, or water. Should this valve be replaced?

- a. yes
- b. no

157. What is the solution for the above problem? _____

158. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that drips continually from the vent due to Electrolysis of relief valve seat. Should this valve be replaced?

- a. yes
- b. no

159. What is the solution for the above problem? _____

160. A reduced pressure zone assembly/reduced pressure detector assembly has a valve that drips continually from the vent due to the valve improperly reassembled. Should this valve be replaced?

- a. yes
- b. no

161. What is the solution for the above problem? _____

162. A reduced pressure zone assembly/reduced pressure detector assembly valve that exhibits high pressure drop due to a fouled strainer. Should this valve be replaced?

- a. yes
- b. no

163. What is the solution for the above problem? _____

164. A reduced pressure zone assembly/reduced pressure detector assembly valve that exhibits high pressure drop due to a valve is too small for the flows encountered. Should this valve be replaced?

- a. yes
- b. no

165. What is the solution for the above problem? _____

166. A reduced pressure zone assembly/reduced pressure detector assembly valve that has no water flowing downstream of valve due to the valve installed backwards. Should this valve be replaced?
a. yes b. no

167. What is the solution for the above problem? _____

168. A reduced pressure zone assembly/reduced pressure detector assembly valve that doesn't test properly due to a leaky downstream gate valve. Should this valve be replaced?
a. yes b. no

169. What is the solution for the above problem? _____

170. A reduced pressure zone assembly/reduced pressure detector assembly valve that quickly and repeatedly fouls following servicing due to debris in the pipe line are too fine to be trapped by the strainer. Should this valve be replaced?
a. yes b. no

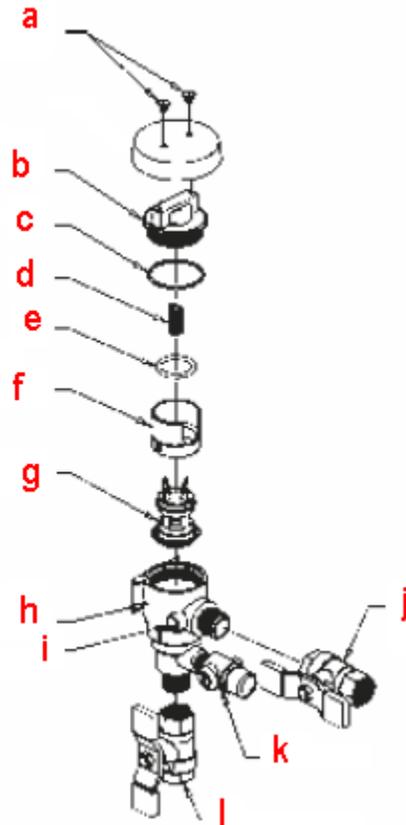
171. What is the solution for the above problem? _____

172 What is the correct procedure to winterize backflow preventers? _____

Series 008, 008PC

Anti-Siphon, Anti-Spill
Vacuum Breaker

Sizes 3/8" - 1"



Use the above diagram to answer questions 173-184

173. The letter 'a' represents? _____

174. The letter 'b' represents? _____

175. The letter 'c' represents? _____

176. The letter 'd' represents? _____

177. The letter 'e' represents? _____

178. The letter 'f' represents? _____

179. The letter 'g' represents? _____

180. The letter 'h' represents? _____

181. The letter 'i' represents? _____

182. The letter 'j' represents? _____

183. The letter 'k' represents? _____

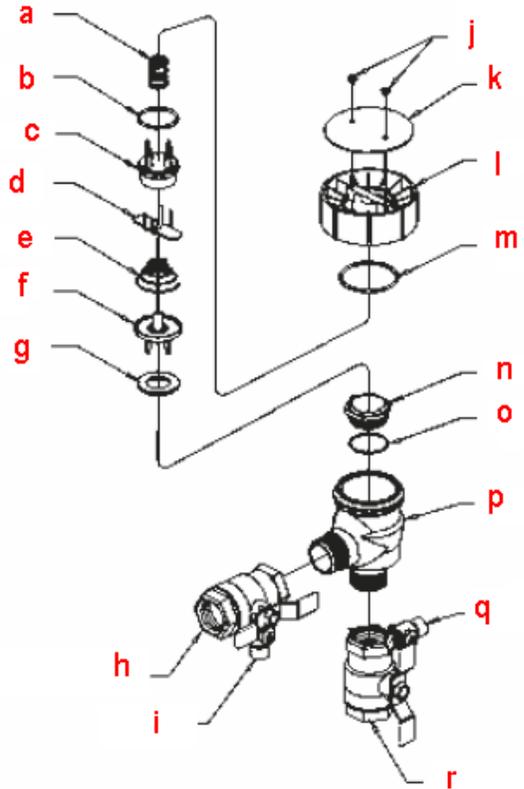
184. The letter 'l' represents? _____

Series 800M4, 800M4FR

Pressure Vacuum Breaker

Sizes 1/2" - 2"

(Size 1" - 2")



Use the above diagram to answer questions 185-202

185. The letter 'a' represents? _____

186. The letter 'b' represents? _____

187. The letter 'c' represents? _____

188. The letter 'd' represents? _____

189. The letter 'e' represents? _____

190. The letter 'f' represents? _____

191. The letter 'g' represents? _____

192. The letter 'h' represents? _____

193. The letter 'i' represents? _____

194. The letter 'j' represents? _____

195. The letter 'k' represents? _____

196. The letter 'l' represents? _____

197. The letter 'm' represents? _____

198. The letter 'n' represents? _____

199. The letter 'o' represents? _____

200. The letter 'p' represents? _____

201. The letter 'q' represents? _____

202. The letter 'r' represents? _____

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- 2. Fill in all fields applicable. **Fee \$100**
- 3. Include your certification or license number if applicable.
- 4. We'll take care of crediting with the state and sending you back a verification form.

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- 1. **The answer sheet and this page only.**
- 2. Fill out this form below completely.
- 3. Applicable fees by check payable to Gary Klinka.
- 4. Mail to: Gary Klinka at 228 Mandella Ct Neenah WI 54956.
- 5. Office 920-727-9200 Fax 888-727-5704 Cell 920-740-6723 or 920-740-4119
- 6. Email: garyklinka@hotmail.com

-----Educational Course Attendance Verification Form -----

Attendee's Name _____ Date _____

Address _____

Credential Number _____ Phone# _____

Course Title and Name _____ XCONNECTIONREPAIR12 _____

List each credential held by attendee _____

	Credited Hours	12 hrs
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Email address _____ Fax# _____

To be completed by Gary Klinka www.garyklinka.com My credential link [#70172](#)

Course Password _____ Course ID# 8571 _____

Attendee passed the course with a greater than 70% score on Date _____

Instructor Signature _____