# xconnection_repair_quiz

Instructions

Print this quiz from my website and write in the answers from the reference material below.

1. Print the reference materials from my website click here. This is a large file and could take several minutes.
2. Answer the questions completely using the reference materials.
3. Go to the bottom of this page for course verification forms and mailing instructions.

12 hour course qualifies for the following Credentials: **12 hours Fee: $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? _____

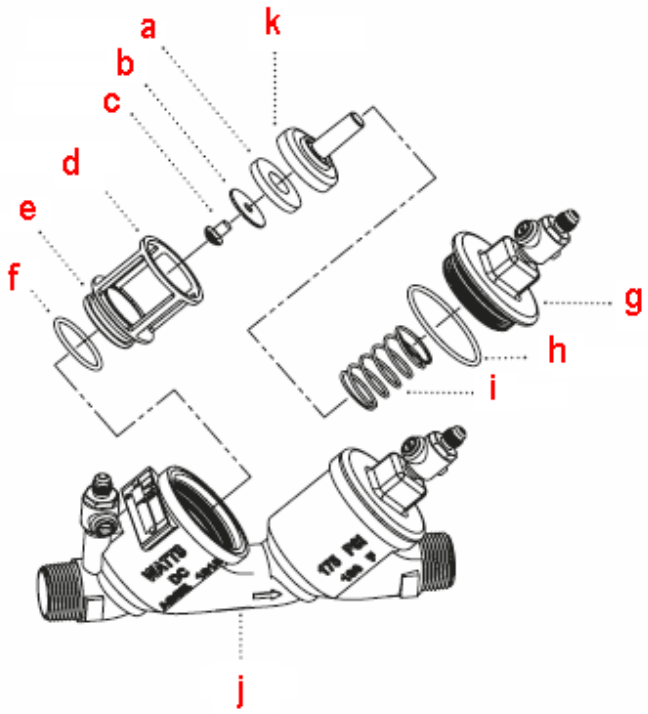
18. The letters CK represents? _____

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? _____

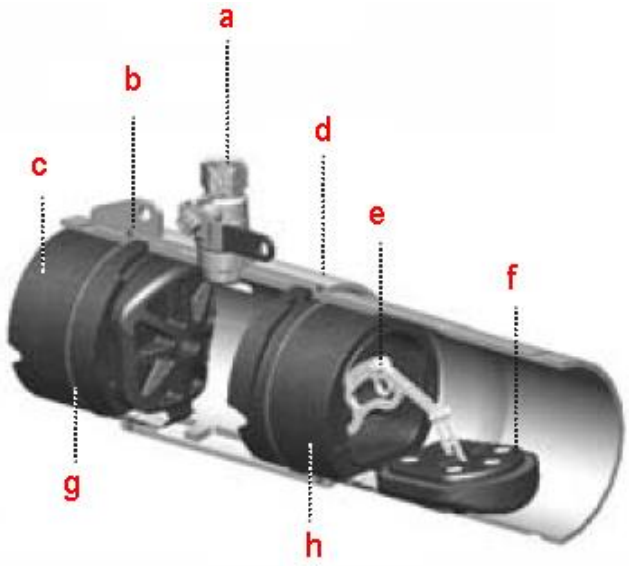
29. The letter ‘h’ represents? _____

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? _____

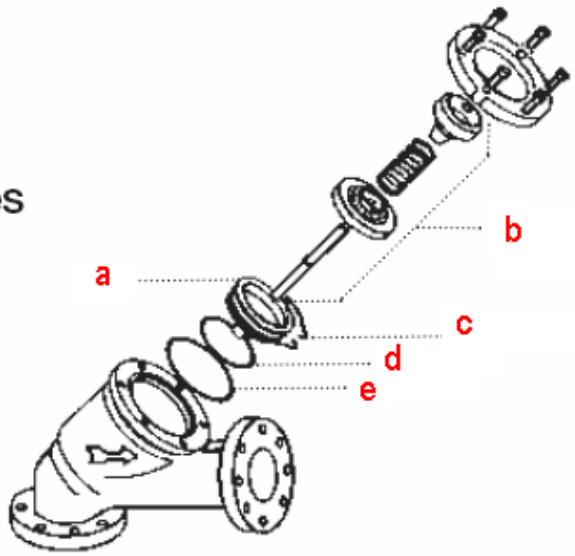
39. The letter ‘g’ represents? _____

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? _____

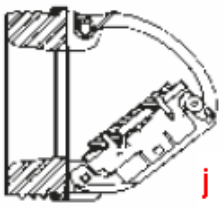
44. The letter 'd' represents? _____

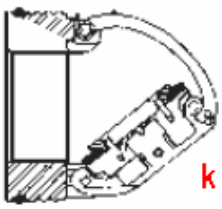
45. The letter 'e' represents? _____

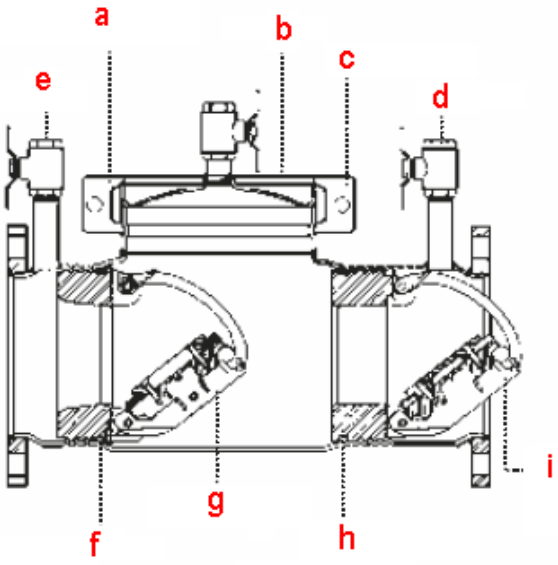
# Series 775, 775DCDA

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? _____

_____

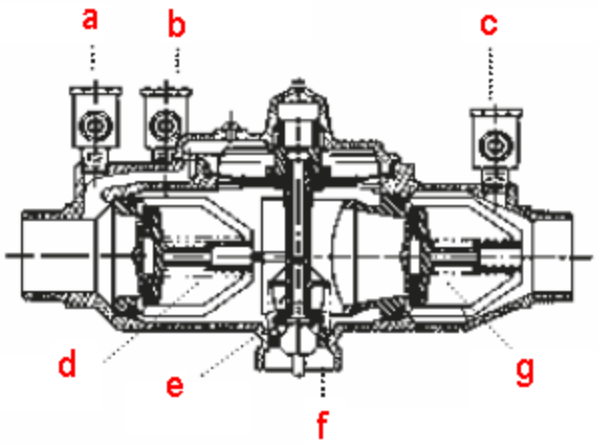
75. A double check valve has low flows passing through mainline valve (DCDA only) and has a broken mainline spring. Should the valve be replaced?

a. yes b. no

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

_____

**Series 009**
Reduced Pressure Zone Assemblies
Sizes ¼" – 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? _____

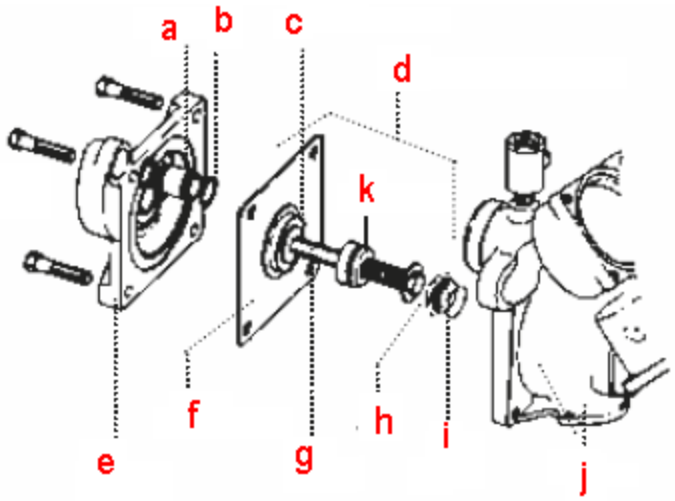
81. The letter 'e' represents? _____

82. The letter 'f' represents? _____

83. The letter 'g' represents? _____

# Series 909
## Reduced Pressure Zone Assemblies

*¾" – 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? _____

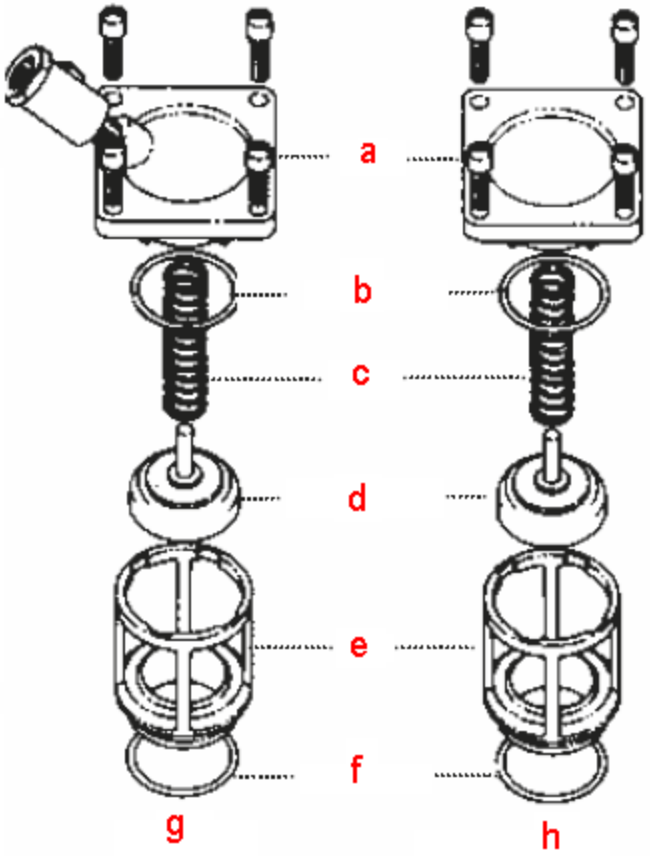
91. The letter ‘h’ represents? _____

92. The letter ‘i’ represents? _____

93. The letter ‘j’ represents? _____

94. The letter ‘k’ represents? _____

**Series 909**
Reduced Pressure Zone Assemblies
Sizes ¾" – 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? _____

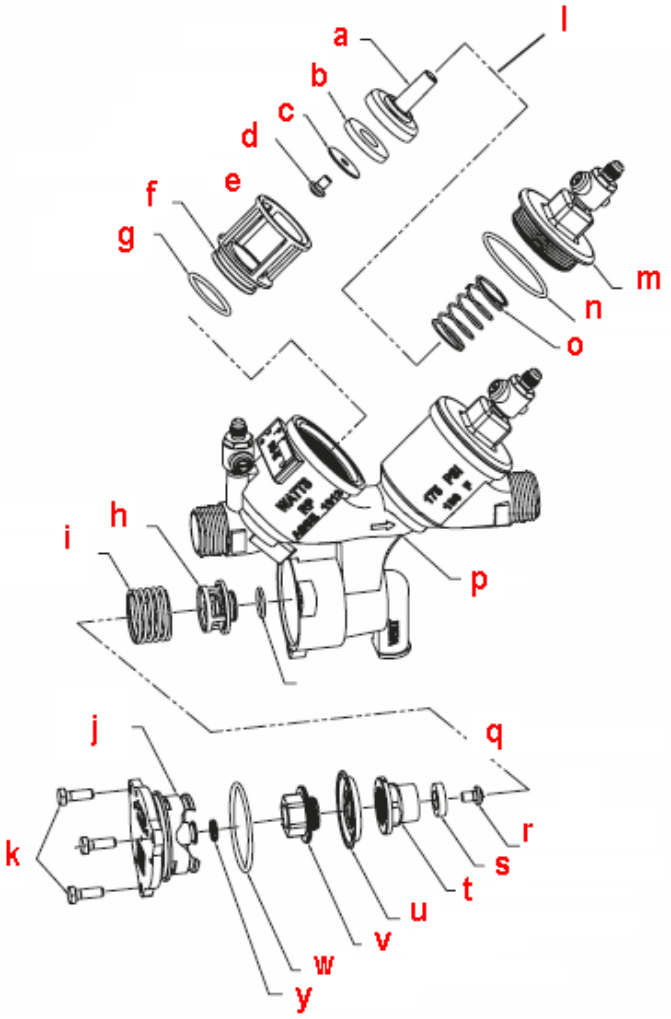
99. The letter ‘e’ represents? _____

100. The letter ‘f’ represents? _____

101. The letter ‘g’ represents? _____

102. The letter ‘h’ represents? _____

**Series 919**
Reduced Pressure Zone Assemblies
Sizes ¼" – 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? _____

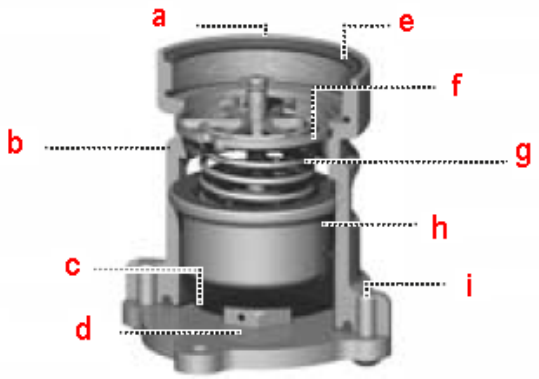
123. The letter ‘u’ represents? _____

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? _____

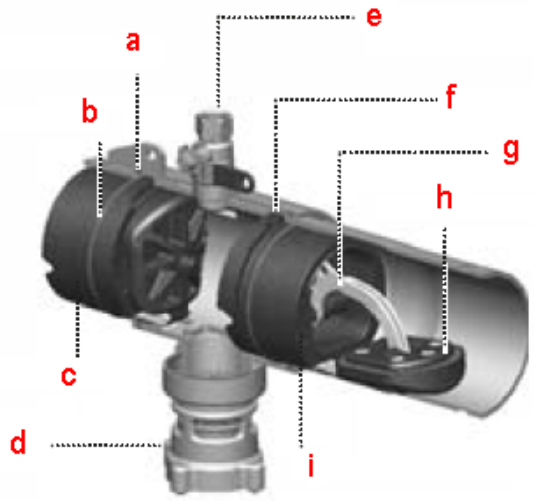
132. The letter ‘f’ represents? _____

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? _____

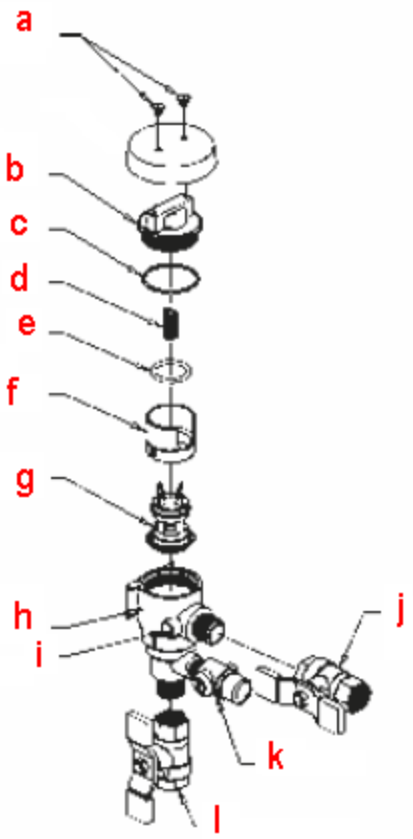
_____

_____

# Series 008, 008PC

## Anti-Siphon, Anti-Spill Vacuum Breaker

Sizes ⅜" – 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? _____

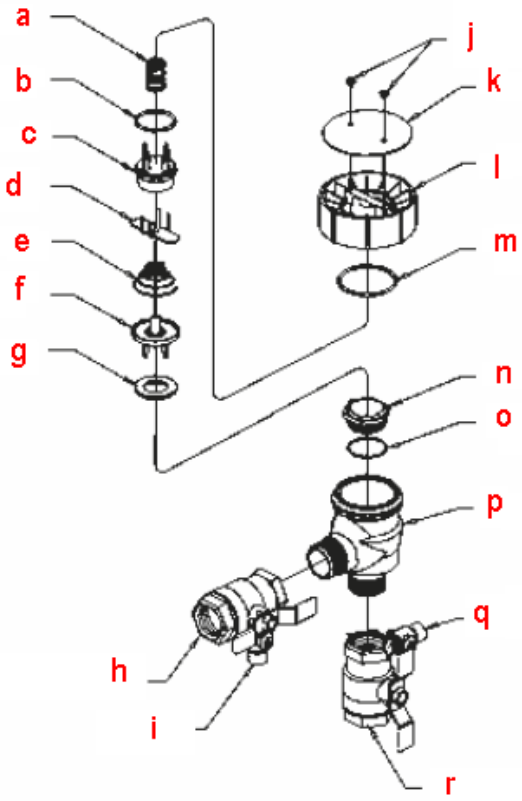
184. The letter ‘l’ represents? _____

# Series 800M4, 800M4FR

## Pressure Vacuum Breaker

Sizes ½" – 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? _____

To obtain your Continuing Education Credits follow the below instructions.

1. Print out first.
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.

Send by mail

1. **The answer sheet and this page only.**
2. Fill out this form below completely.
3. Applicable fees by check payable to our business name: **GaryKlinka.com**
4. Mail to: **GaryKlinka.com** at 1316 Cardinal Circle, Neenah, WI 54956.

Live Support at 920-381-6714 or tmklinka@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

Email address_____ Fax#_____

---

To be completed by GaryKlinka.com

Course Password_____ Course ID# 8571

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

Instructor Signature_____