

**2015 Tri-State
NMRA Post #6, June 2, 2015
BG-4 Written Exam **Answers****

Name _____ Company _____
Team Name _____ Working Order No. _____

1. During the exhalation valve test, if valve is operating properly, -10 mbar is indicated on the pressure gauge. **(S.F. # 8)**
A. -10 mbar
B. +10 mbar
C. 10 mbar

2. The EPDM breathing hoses use quarter turn connectors. **(S.F.# 9)**
A. breathing hoses
B. corrugated hoses
C. black hoses

3. The factory filled cartridge is good for 4 years from the manufacture date. **(S.F. # 13)**
A. 4 months
B. 4 years
C. 5 years

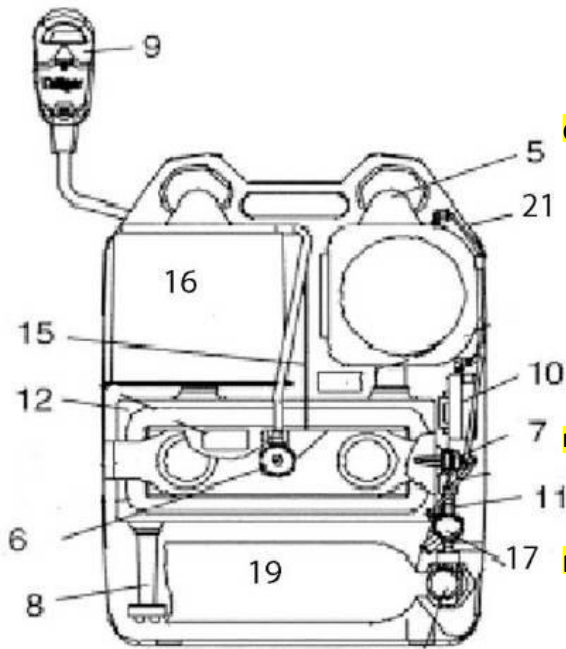
4. A steel cylinder is full at 3135 psi when a + is stamped at hydro test. **(S.F. # 17)**
A. 3135 psi
B. 2650 psi
C. 3000 psi

5. The minimum valve provides greater than 80 L/min flow. **(S.F.# 30)**
A. relief valve
B. minimum valve
C. pressure valve

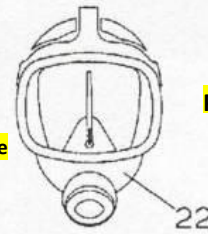
6. The breathing bag has a 5.5 liter volume. **(S.F. # 31)**
A. 6.6 liter
B. 5.5 liter
C. 6.0 liter

7. The pressure reducer must be rebuilt/overhauled every 6 years. **(S.F. # 34)**
- A. 5 years
 - B. 6 years
 - C. 1 year
8. The last low pressure warning occurs when pressure has dropped to approximately 145 psi. **(S.F. # 43)**
- A. 130 psi
 - B. 140 psi
 - C. 145 psi
9. To start the main alarm, press the Yellow panic button in center of the Sentinel. **(S.F.#46)**
- A. Tally key
 - B. Bypass button
 - C. Yellow panic
10. Remove the Tally Key to activate the motion sensor. **(S.F. # 51)**
- A. Panic Key
 - B. Tally Key
 - C. Tally Button
11. Disinfect parts by immersing them in a disinfectant bath using Airkem 33. **(S.F.# 56)**
- A. AirKem 33
 - B. Disinfect 33
 - C. Soapy water
12. The inhalation valve should be replaced every 3 years for units which are in constant use. **(S.F. #65)**
- A. 3 months
 - B. 3 years
 - C. 5 years
13. A steel oxygen cylinder must be retested by a certified testing facility every 5 years. **(S.F. #69)**
- A. 10 years
 - B. 15 years
 - C. 5 years

14. It is safe to use the BG 4 for up to 4 hours with a battery warning 1 Icon. **(S.F. # 76)**
- A. 2 hours
 - B. 4 hours
 - C. 8 hours
15. When the Tally Key is removed, the motion sensor is activated. **(S.F. #80)**
- A. motion detector
 - B. motion sensor
 - C. motion devise
16. The oxygen cylinder safety burst disc ruptures at 4,000 psi (275 bar). **(S.F. # 83)**
- A. 3000 psi
 - B. 3150 psi
 - C. 4000 psi
17. Polycarbonate or Plexiglas lenses can be used in the mask. **(S.F. # 86)**
- A. Polycarbonate, Plexiglas
 - B. Plastic, Plexiglas
 - C. Plastic, Polycarbonate
18. The drainage valve opens at approximately 15 mbar and is therefore out of the RZ reading range. **(S.F. # 88)**
- A. 10 mbar
 - B. 15 mbar
 - C. 10 lpm
19. The breathing hoses are equipped with anti-crush rings. **(S.F. # 95)**
- A. air hoses
 - B. oxygen hoses
 - C. breathing hoses
20. When conducting a component check use a test pressure between ___mbar and + 10 mbar with a max pressure loss of 1 mbar/ min. **(SF #98)**
- A. - 7 mbar
 - B. + 7 mbar
 - C. + 6 mbar



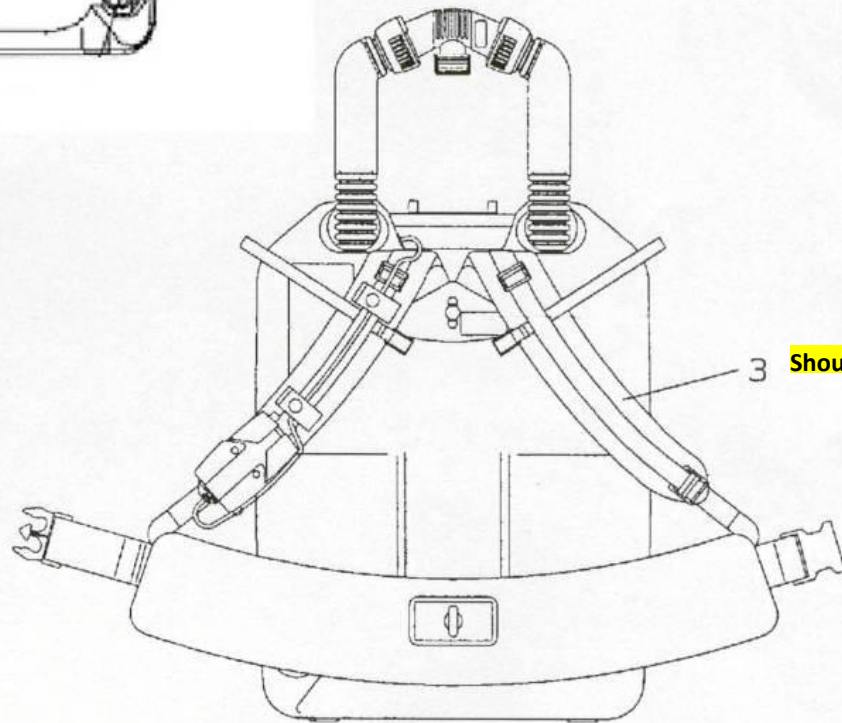
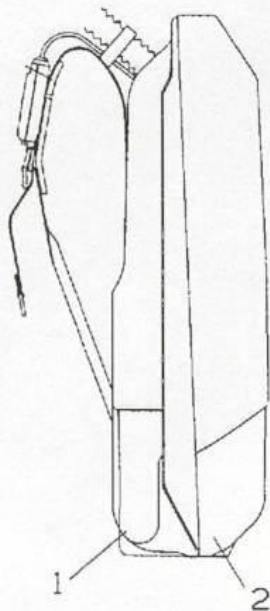
Cooler



Paraorama Nova Mask

Minimum Valve

Pressure Reducer BG4



Shoulder Pad Assembly

21. Identify Item No. 3

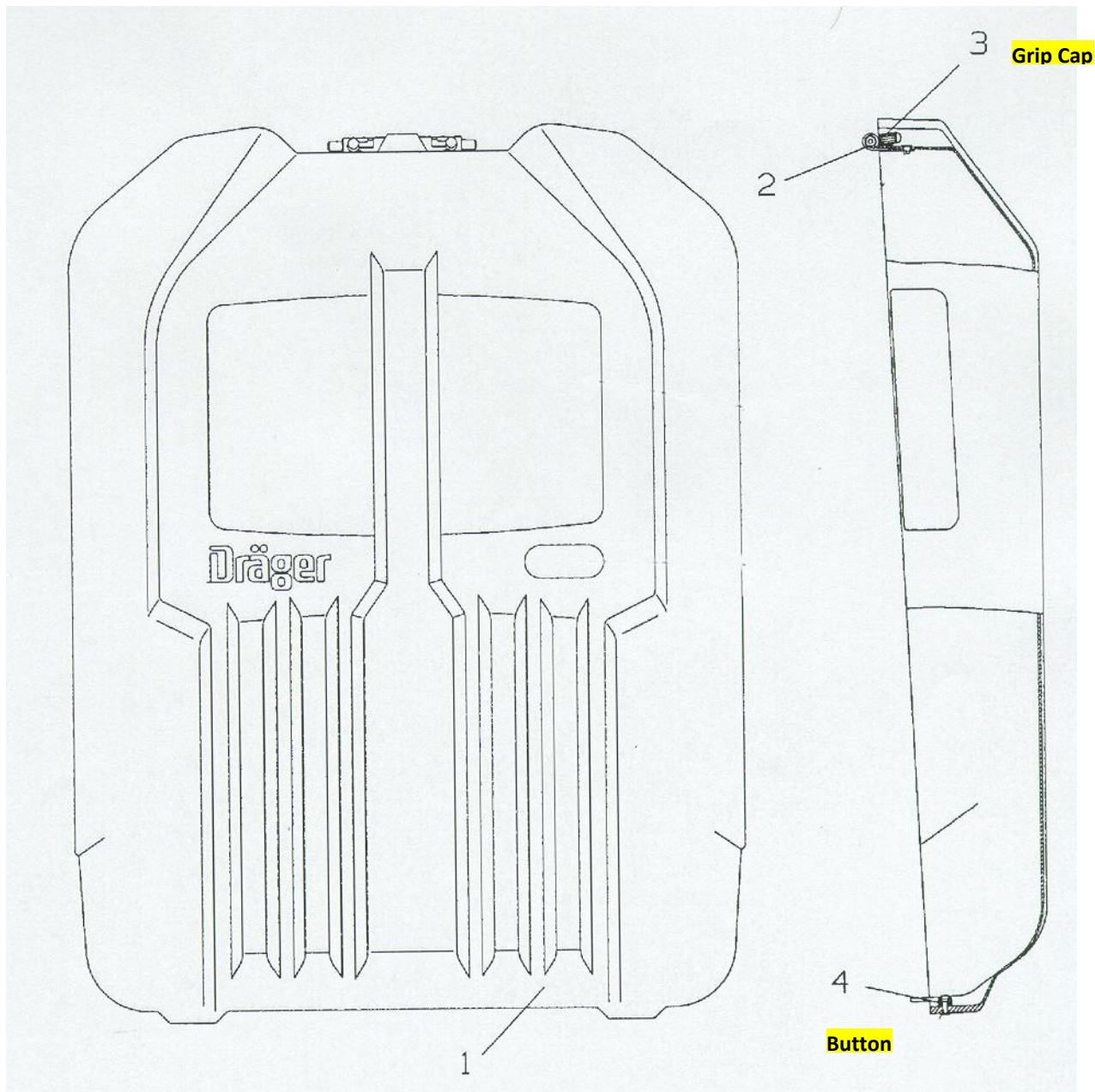
- A. Shoulder harness
- B. Shoulder Pad
- C. Shoulder Pad Assembly (page #19)

22. Identify Item No. 5

- A. Ice Chest
- B. Ice Cooler

23. Identify Item No. 7
- C. Cooler (page # 19)
 - A. Maximum Valve
 - B. Minimum Valve
 - C. Oxygen Valve (page # 19)
24. Identify Item No. 17
- A. High Pressure Reducer
 - B. Low pressure Reducer
 - C. Pressure Reducer BG4 (page # 19)
25. Identify Item No. 22
- A. Panorama Mask
 - B. Paranormal Mask
 - C. Panorama Nova Mask (page #19)

Cover



26. Identify Item No. 3

A. Button Cap

B. Grip Cap

C. Top Latch

(page # 20)

27. Identify Item No. 4

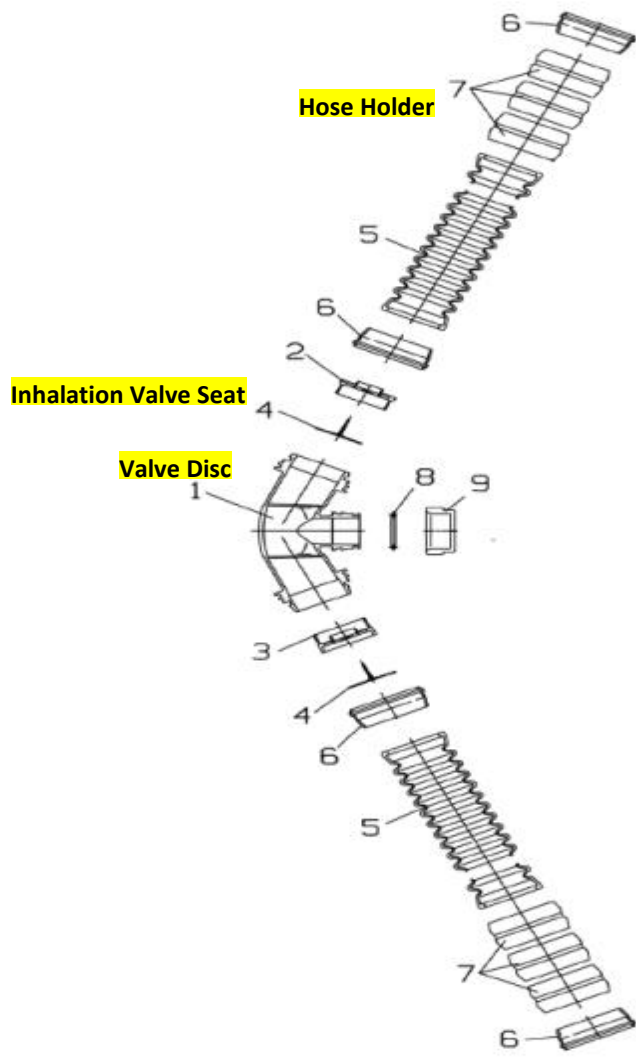
A. Button

B. Catch

C. Anchor

(page # 20)

Breathing Hose Assembly



28. Identify Item No. 2

A. Inhalation Valve Assembly

B. Inhalation Valve Seat

C. Inhalation Disc (page #22)

29. Identify Item No. 4

A. Valve Seat

B. Valve

C. Valve Disc (page # 22)

30. Identify Item No. 7

A. Breathing Hose Holder

B. Crush Ring

C. Hose Holder (page # 22)