2023 Kansas Shoot-out Mine Rescue Competition
Hutchinson, Kansas
Written Test – Bio 240R

Name: _____ Draw No.: _____

1. We must always handle Oxygen cylinders with care to prevent:
   A. Damage. SOF 6
   B. Injury and/or Death.
   C. Cylinders from becoming projectiles.

2. Do not open oxygen cylinder valve in the presence of open flame, spark, or:
   A. Methane.
   B. High radiant heat. SOF 7
   C. Cylinders from becoming projectiles.

3. Wearing and the use of an SCBA adds to the:
   A. Breathing stresses to the user.
   B. Physical exertion levels of the user.
   C. Workload and stress of the user. SOF 10

4. The BioPak 240 R is suitable for respiratory protection, entry, and escape from:
   A. Various oxygen levels and high temperature levels.
   B. Oxygen deficient atmospheres with temperatures as low as -5 degrees F. SOF 11
   C. Oxygen deficient atmospheres with temperatures as low as -15 degrees F.

5. What method is used to determine the correct pressure level when filling cylinders:
   A. Allow the cylinders to cool after filling. SOF 13
   B. Read the Output/Source Booster Pump Gauge.
   C. Touch the cylinders to see if the Cylinders are only warm.

6. A foreign gas in the cylinder may cause:
   A. Cylinder contusions.
   B. Cylinder corrosion. **SOF 14**
   C. Cylinder explosion.

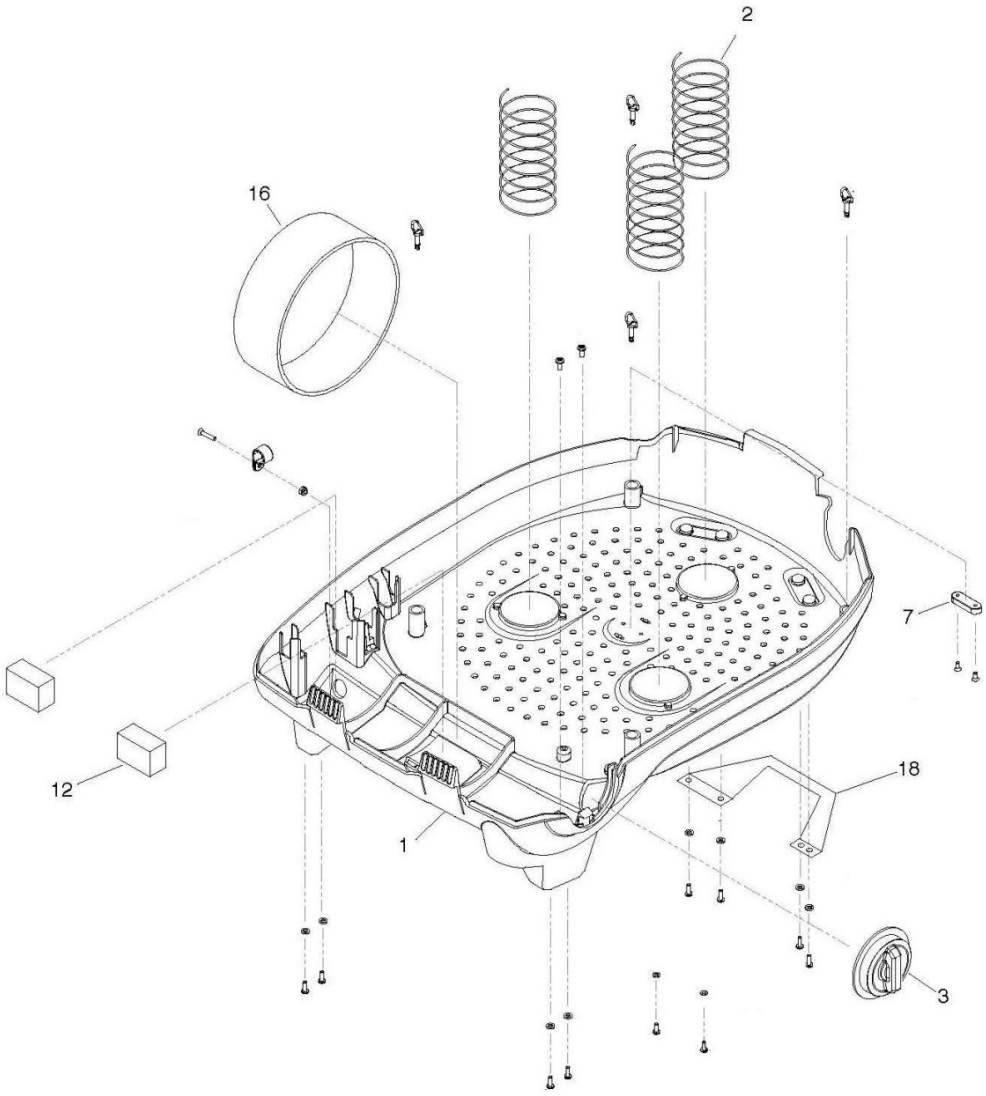
7. Always check your cylinders for:
   A. Foreign gasses.
   B. Unapproved markings.
   C. Current hydrostatic date. **SOF 15**

8. An unapproved _____ will compromise the protection provided to the USER by the SCBA.
   A. Facepiece **SOF 17**
   B. Hose set
   C. Test/Tool Kit

9. A good _____ seal is important to achieving full protection and proper SCBA duration.
   A. Vent Valve
   B. Facepiece **SOF 18**
   C. Hose Adapter

10. Users should conform to MSHA/NIOSH guidelines concerning facial hair and the _____ of facemasks.
   A. Care
   B. Washing
   C. Use **SOF 19**

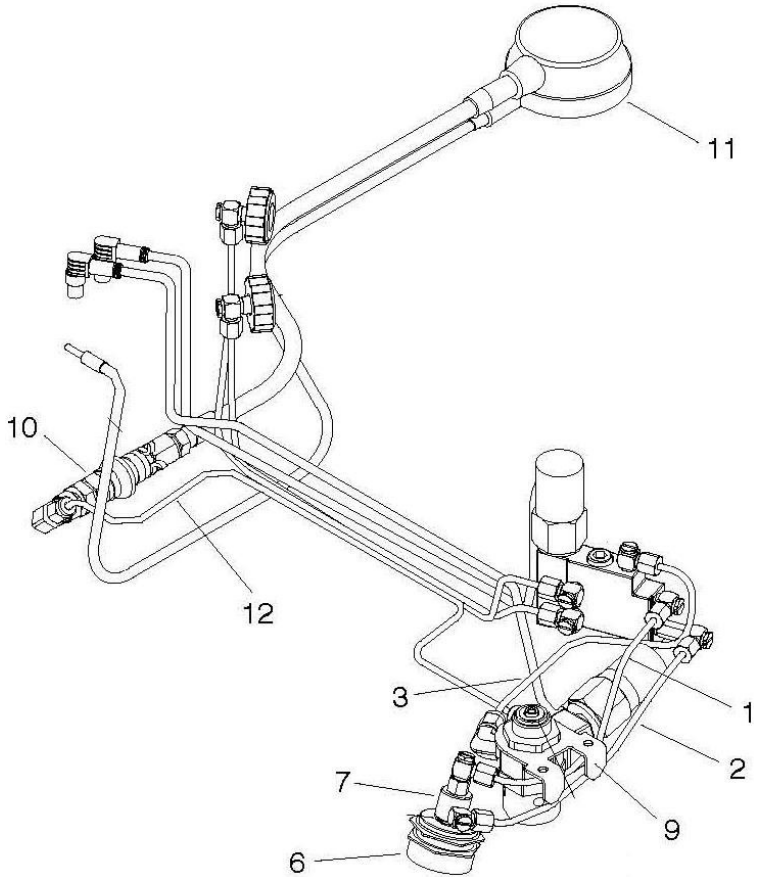
Lower Housing Assembly



1 Cons. No.	2 Designation	1 Cons. No.	2 Designation
1	**Lower Housing _____ (11)**	12	Latch Foam Pad
2	**_____ Springs (12)**	16	Oxygen Cylinder Hold-Down Strap
3	**External Oxygen _____ (13)**	18	**_____ Handle (15)**
7	**_____ Spacer (14)**		

11. A. Cover **12. A. Positive Pressure** **13. A. Cover** **14. A. Relief** **15. A. Support**
B. Assembly **B. Diaphragm** **B. Controller** **B. Vent** **B. Lift**
C. Shell **C. Load** **C. Knob** **C. Outlet** **C. Carrying**

Pneumatic Assembly



1 Cons. No.	2 Designation		1 Cons. No.	2 Designation
1	**Bypass _____Tube**	**(16)**	9	Oxygen Regulator Assembly
2	**Bypass _____Tube**	**(17)**	10	Remote Gauge Shut Off Assembly
3	**Oxygen ____ Tube**	**(18)**	11	Remote Gauge Assembly
6	**Bypass Valve _____Button**	**(19)**	12	Remote Gauge Feed Tube Assembly
7	**_____Valve**	**(20)**		

16. **A. Supply**
B. Feed
C. Return

17. **A. Supply**
B. Feed
C. Return

18. **A. Supply**
B. Feed
C. Return

19. **A. Activate**
B. Press
C. Push

20. **A. Emergency**
B. Feed
C. By-Pass