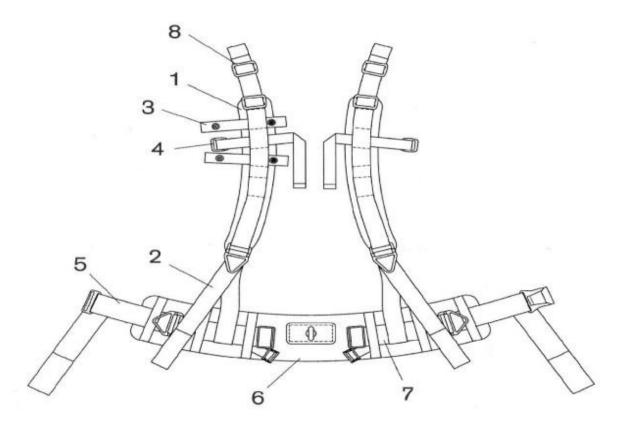
2023 Kansas Shoot-out Mine Rescue Competition Hutchinson, Kansas Written Test – BG-4

| Name: | Draw No.: |
|-------|---|
| | |
| 1. | A pressure leak could be caused by a leakage in or at device components. A. Negative B. Low C. Positive |
| 2. | Polycarbonate or lenses can be used in the mask. A. Carbonate B. Flexible C. Plexiglas |
| 3. | Only oxygen (medical grade or better) with purity is to be used to fill the BG-4 oxygen cylinders. A. 99.5% B. >99.5% C. 98% |
| 4. | The maximum temperature of the air used to dry parts should not go above degree C (140 degree F). A. 60 B. 90 C. 70 |
| 5. T | The BG-4 is for use at temperatures above -5 degree C (23 degree F). A. Suitable B. Approved C. Warranted |
| 6. R | Lemove the Tally Key to the motion sensor. A. Operate B. Deactivate C. Activate |

| 7. | The pressure relief valve is designed to open when the pressure within the breathing | | | | | | |
|----|--|------------------|--------------------------------------|--|--|--|--|
| | - | | millimeters (+2 mbar and +5 mbar) of | | | | |
| | pressure measured on the water gage. | | | | | | |
| | A. +20 and +50 | | | | | | |
| | B. +10 and +60 | | | | | | |
| | C20 and -50 | | | | | | |
| 8. | During the positive pressure leak test, the pressure change within 1 minute must be than 1 mbar. | | | | | | |
| | A. Equal to | | | | | | |
| | B. Lower | | | | | | |
| | C. Greater | | | | | | |
| 9. | A steel cylinder is full at psi when a + is stamped at hydro test. | | | | | | |
| | A. 2850 | | | | | | |
| | B. 2600 | | | | | | |
| | C. 3135 | | | | | | |
| 10 | . The drain valve should | not open at less | than mbar. | | | | |
| | A. 10 | | | | | | |
| | B. 20 | | | | | | |
| | C. 15 | | | | | | |

Harness Assembly

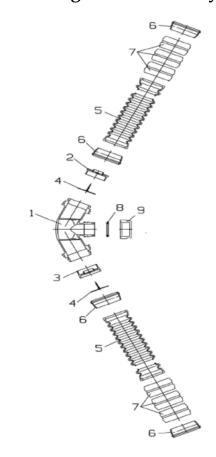


| No. | Designation | | No. | Designation | |
|-----|-----------------------|------|-----|-----------------------|------|
| 1 | Shoulder Pad Assembly | | 5 | Adjusting Belt Assemb | oly |
| 2 | Adjusting Strap | (11) | 6 | Waist | (14) |
| 3 | Hose | (12) | 7 | Belt Assembly | , , |
| 4 | Strap Harness | (13) | 8 | | (15) |

| (11) | (12) | (13) | (14) |
|-------------|-----------|-------------|------------|
| A. Chest | A. Clip | A. Shoulder | A. Strap |
| B. Shoulder | B. Strap | B. Sentinel | B. Harness |
| C. Waist | C. Buckle | C. Hose | C. Belt |

(15)
A. Clip
B. Buckle
C. Clamp

Breathing Hose Assembly



| No. | Designation | | No. | Designation | |
|-------------|--|------|-------------|------------------------------------|--------------|
| 1 2 3 | Inhalation Valve Seat Exhalation Valve Seat | (16) | 6 7 8 | Bayonet Ringrings Toroidal Sealing | (18) (19) |
| 4 5 | Disc Corrugated Hose | (17) | 9 | Sealing | (20) |

| (16) | (17) | (18) | (19) |
|--------------|-------------|---------------|---------|
| A. Coupling | A. Burst | A. Sealing | A. Ring |
| B. Connector | B. Valve | B. Hose | В. Сар |
| C. Tube | C. Pressure | C. Anti-Crush | C. Plug |

(20) A. Plug

B. Valve

C. Cap