FORCEWARE
A brand of VALLON

ENGINEERED IN GERMANY

PROTECTION

BOMB PROTECTION SUIT BPS

Protection suit against fragments of exploding devices

forceware.de

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Protection suit against fragments of exploding devices

The Bomb Protection Suit BPS is a complete EOD/IEDD ensemble. It provides highest levels of protection from the four main threats encountered by EOD/IEDD operators of fragmentation, namely overpressure, impact and heat. The outer material is constructed from certified flame-retardant material, such as Nomex Delta T. This material can also be used to cover the bomb suit helmet as it protects from the flammability associated with blasts from explosive devices.

A key feature of the BPS is its zonal armor system which provides outstanding blast protection with maximum mobility, flexibility and comfort. The highest protection level is afforded to life critical areas of the body, such as the neck, chest and groin, with protection levels (v50 according to STANAG 2920) from 450 m/s to 1900 m/s (1476 ft/s to 6234 ft/s). The protection levels can be adjusted to suit individual customer's needs.

- **High protection levels according to STANAG 2920**
- **Zoned armor system**
- **Integral groin and lower abdomen protection**
- **Three-part blast plate for increased protection to neck, chest and groin**
- **High performance helmet with visor, integral ventilation and communications**
- **Two-part knee joints for maximum flexibility and maneuverability**
- **Comfortable to wear for all genders**
- **Including transport bags**

Black

Coyote brown

Dark blue

Olive

BOMB PROTECTION SUIT BPS

High performance helmet with visor

- Protection level helmet 680 m/s, visor 800 m/s (STANAG 2920)
- Integrated helmet mounted demisting fan with self contained, rechargeable power pack providing air movement greater than 170 l/min (air flow is directed to wearers forehead and visor, to reduce perspiration and build up of humidity in warmer climates. Fan speed adjustable from 10 to 100 %.
- RD40 Military Standard Grade particulate and vapour filter fitted. Filter is replaceable without the use of tools.
- High Intensity LED torchlight beam fitted above visor, with adjustable beam height and self-contained batteries.
- Removable, washable head liners fitted for wearer‘s comfort and hygiene.
- Helmets come complete with a helmet padding accessory system for custom fitting of helmets for each wearer.
- Helmet fitted headphones and microphone for communication with supervisor using USI noise cancelling VOX or PTT communication systems. (Communication systems may be wireless or wired).
- No wires or hoses necessary between helmet and bomb suit.

RELIABLE PROTECTION AND COMFORT

in hazardous environments

1 High protection levels according to STANAG 2920, Three-part blast plate for increased protection to neck, chest and groin

2 Two-part knee joints for maximum flexibility and maneuverability

3 The overboots provide protection for the feet

OPTIONAL ACCESSORIES

Cooling suit for working at high temperatures

Cooling suit, item no.: 1100400-19

If the bomb protection suit is used at high temperatures, there is a risk that the body will overheat. To avoid this, the use of a cooling suit is recommended. To cool the head and body, ice-cooled water is pumped by an adjustable pump through a hose system that is incorporated into the cooling suit.

1 Cooling water bottle

2 Cooling water hoses

3 Cooling water pump

4 Pump battery

OPTIONAL ACCESSORIES

for the highest level of comfort and safety

1 PTT and VOX Hard Wire communications system providing full duplex communications between the EOD commander and the EOD operator connected by 100m of field cable, without producing RF emissions.

The integrated helmet communication headset provides stereo acoustics in order to determine the direction of the sound source. The Ambient Sound System provides the operator with improved situational awareness. The headset consists of twin ultra low profile earpieces and noise cancelling microphone which connects to the common user unit via a rugged 80 mm Press to Talk (PTT) unit or to the VOX switching unit.

The EOD commanders headset is a military style, robust, single sided headset.

A wireless VOX communications systems with a fail-safe PTT with remote audio volume control is also available.

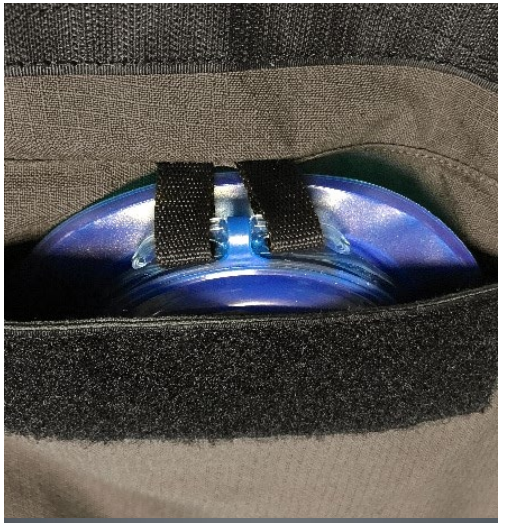
PTT, item no.: 1000400-14
VOX, item no.: 1100400-15
Radio, item no.: 1100400-16

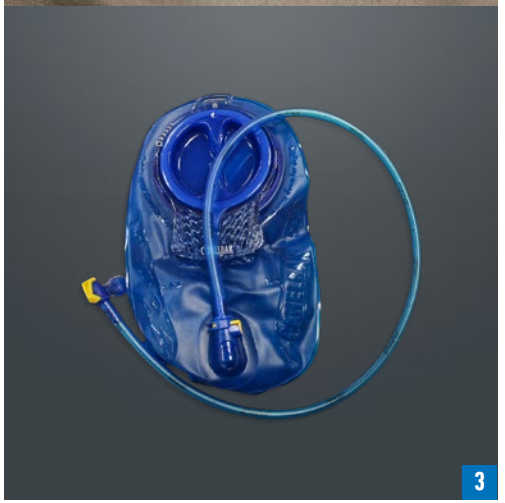
2 Wrist controller (Light on/off, Helmet fan fast, Helmet fan slow), item no.: 1100400-28

3 Steel Visor Option, item no.: 1100400-03

OPTIONAL ACCESSORIES

for the highest level of comfort and safety





1 Hardwire Helmet Camera System, item no.: 1100400-13

2 Hard Case (two large cases for suit, one small case for helmet), item no.: 1100400-22

3 Hydration Unit 1.5 l, item no.: 1100400-20

DATA SHEET

Bomb Protection Suit BPS

TECHNICAL DATA

Article number	S – 1100400-05 M – 1100400-06 L – 1100400-07 XL – 1100400-08
Available sizes (EU)	S – approx. 29.80 kg (65.72 lbs) M – approx. 32.20 kg (70.92 lbs) L – approx. 32.60 kg (71.93 lbs) XL – approx. 33.30 kg (73.39 lbs)
Optional accessories	Cooling Suit – 1100400-19 Hardwire Comm. System PTT – 1100400-14 Hardwire Comm. System VOX – 1100400-15 Radio Comm. System – 1100400-16 Wrist controller – 1100400-28 Steel Visor – 1100400-03 Hardwire Helmet Camera System – 1100400-13 Hard Case – 1100400-22 Hydration Unit 1.5 l – 1100400-20

Colors	Black, dark blue, olive, coyote brown
Protection	v50 = 450 m/s to 1900 m/s (1476 ft/s to 6234 ft/s) according to STANAG 2920, tested against a load of 10 kg (22.05 lbs) C4 at a distance of 3 m (10 ft)
Warranty	12 months against labor faults
Life time of ballistics	5 years

DATA SHEET

Bomb Protection Suit BPS

COMPONENTS – V50 (STANAG 2920 17GR FSP)

Chest blast plate	1900 m/sec
Neck/collar blast plate	1900 m/sec
Groin blast plate	1900 m/sec
Front of the jacket	600 m/sec
Back of the jacket	560 m/sec
Front groin protection	600 m/sec
Rear groin protection	250 m/sec
Trousers thigh inserts (upper leg)	690 m/sec
Trousers shin inserts (lower leg)	620 m/sec
Trousers knees	800 m/sec

Back of the trousers	250 m/sec
Foot cover	450 m/sec
Helmet	700 m/sec
Visor	800 m/sec
Steel visor	1200 m/sec

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