



# EC-Type Examination Certificate

- Directive 94/9/EG -

Equipment and protective systems intended for use  
in potentially explosive atmospheres

**BVS 10 ATEX H 021 X**

- (4) **Equipment:** Compressed-air respiratory system PAS Lite/PSS 3000
- (5) **Manufacturer:** Draeger Safety UK Ltd.
- (6) **Address:** Blyth Riverside Business Park,  
Blyth, Northumberland, NE24 4 RG, UK
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, Notified Body No. 0158 according to Article 9 of Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report PP 10EXAM 10406 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- DIN EN 13463-1:2009, Nicht-elektrische Geräte für den Einsatz in explosionsgefährdeten Bereichen, Teil 1: Grundlagen und Anforderungen
  - DIN EN 13463-5:2004, Nicht-elektrische Geräte für den Einsatz in explosionsgefährdeten Bereichen, Teil 5: Schutz durch konstruktive Sicherheit „c“
  - CLC TR50404:2003, Electrostatics – Code of practice of avoidance of hazards due to static electricity
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.  
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **I M1**  
**II 1GD IIB T6 -30 °C ≤ Ta ≤ +60 °C**

or

 **I M1**  
**II 1GD IIC T6 -30 °C ≤ Ta ≤ +60 °C**

**DEKRA EXAM GmbH**  
Bochum, dated 11<sup>th</sup> November.2010

Signed: Migenda

Certification body

Signed: Hübner

Special services unit



(13)

Appendix to

(14)

# EC-Type Examination Certificate

BVS 10 ATEX H 021 X

(15) 15.1 Subject and Type

Compressed-air respiratory system: PAS Lite/PSS 3000

## 15.2 Description

The compressed-air respiratory system PAS LITE/PSS 3000 is a respiratory protection mask that operates independently of the ambient air and that supplies the user with breathing air from compressed-air bottles with a filling pressure of 200 bar or 300 bar. Compressed-air respiratory apparatuses are used for all sorts of jobs and rescue missions which last not longer than 45 minutes the most. The equipment combines a carrier system with pressure reducer, a compressed-air bottle, an automatic lung ventilator, a respiratory protection mask as well as accessories that are listed in the table below:

### Dräger PAS LITE/PSS 3000

All parts and components listed below meet the requirements for equipment marked as follows:

I M1

I M1

II 1 GD IIC T6  $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$  and II 1 GD IIB T6  $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$  and

I M1

II 1 GD IIA T6  $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 

| Component               | Description                                                     | Part No |
|-------------------------|-----------------------------------------------------------------|---------|
| Backplatte/<br>Harness  | Backplate & Harness PAS Lite                                    | 3358566 |
|                         | Backplate & Harness PSS 3000                                    | 3358567 |
|                         | Backplate & Harness PSS 3000 (without waist pad)                | 3358568 |
|                         | Backplate & Harness PAS Lite (without rubber boot)              | 3358856 |
|                         | Backplate & Harness PSS 3000 (without rubber boot)              | 3358857 |
|                         | Backplate & Harness PSS 3000 (without waist pad or rubber boot) | 3358858 |
| Reducer<br>Assembly     | 200 / 300 bar with G5/8 DIN Handwheel                           | 3354893 |
|                         | 200 / 300 bar with G5/8 DIN Handwheel and whistle               | 3356613 |
|                         | 200 / 300 bar with Italian Handwheel                            | 3358103 |
|                         | 200 / 300 bar with Italian Handwheel and whistle                | 3358104 |
|                         | 200 / 300 bar with French Handwheel                             | 3356483 |
|                         | 200 / 300 bar with French Handwheel and whistle                 | 3356663 |
|                         | 300 bar with ChargaAir G 5/8 DIN Handwheel                      | 3357889 |
|                         | 300 bar with ChargaAir G 5/8 DIN Handwheel and whistle          | 3358102 |
| Medium<br>Pressure Hose | Shoulder MP QRC hose                                            | 3358100 |
|                         | LDV PLUS/PSS N direct connect                                   | 3398711 |
|                         | LDV PLUS/PSS A direct connect                                   | 3338702 |
|                         | LDV PLUS/PSS AE direct connect                                  | 3338708 |

| Component           | Description                                                              | Part No |
|---------------------|--------------------------------------------------------------------------|---------|
| Gauge & Hose Assy's | Mechanical Gauge + Hose + whistle                                        | 3357715 |
|                     | Mechanical Gauge + Hose                                                  | 3358169 |
|                     | Flashing Gauge + Hose + whistle                                          | 3358474 |
|                     | Flashing Gauge + Hose                                                    | 3358475 |
|                     | Electronic Bodyguard II (Button Mode) + Hose + whistle                   | 3358393 |
|                     | Electronic Bodyguard II (Button Mode) + Hose                             | 3358394 |
|                     | Electronic Bodyguard II (Tally Mode) + Hose + whistle                    | 3358395 |
|                     | Electronic Bodyguard II (Tally Mode) + Hose                              | 3358396 |
|                     | Mechanical Gauge + Hose + HUD Transmitter + whistle                      | 3358680 |
|                     | Mechanical Gauge + Hose + HUD Transmitter                                | 3358397 |
|                     | Flashing Gauge + Hose + HUD Transmitter                                  | 3358679 |
|                     | Flashing Gauge + Hose + HUD Transmitter + whistle                        | 3358398 |
|                     | Electronic Bodyguard II (Button Mode) + Hose + HUD Transmitter           | 3358677 |
|                     | Electronic Bodyguard II (Button Mode) + Hose + HUD Transmitter + whistle | 3358399 |
|                     | Electronic Bodyguard II (Tally Mode)+ Hose + HUD Transmitter             | 3358678 |
|                     | Electronic Bodyguard II (Tally Mode)+ Hose + HUD Transmitter + whistle   | 3358400 |
| Facemasks           | Panorama Nova family - RA, PE, ESA, P (Triplex Visor-L)                  | FR00016 |
|                     | Panorama Nova family – S-RA, PE, ESA, P (Triplex Visor-L)                | FR00026 |
|                     | FPS 7000 -RA, (PE, ESA) P (Polycarbonate Visor coated - PCas)            | R56401  |

| Component             | Description                                                       | Part No                         |
|-----------------------|-------------------------------------------------------------------|---------------------------------|
| Additional Components | Plus/PSS N                                                        | 3350501                         |
|                       | Plus/PSS Ng                                                       | 3338969                         |
|                       | Plus/PSS A                                                        | 3338700                         |
|                       | Plus/PSS A –F (debris screen)                                     | 3358175                         |
|                       | Plus/PSS Ag                                                       | 3338700/<br>3338967             |
|                       | Plus/PSS AE                                                       | 3338706                         |
|                       | Plus/PSS AEg                                                      | 3338706/<br>3338969             |
|                       | Plus/PSS ESA                                                      | 3351302                         |
|                       | Plus/PSS ESAg                                                     | 3351333                         |
|                       | Plus/PSS Rescue N (1,75m hose)                                    | 3350606                         |
|                       | H2S resistant Diaphragm                                           | 3338751                         |
|                       | Pressure Cylinders acc. PED Matrix                                | B01001                          |
|                       | Pressure Cylinders acc. Blyth Matrix                              | 3355923                         |
|                       | 6,8L 300bar Cylinder with EFV Valve (PED Fischer Gase)            | 3358362                         |
|                       | Cylinder Cover - Nomex                                            | 3310622,<br>3310623,<br>3310624 |
|                       | Cylinder Cover - PVC                                              | 3310619,<br>3310620,<br>3310621 |
|                       | Cylinder Cover - Moulette (anti-static)                           | 3336153                         |
|                       | Rescue coupling hose LF (female coupling)                         | 3358090                         |
|                       | 2nd Medium Pressure Combined connector (secured)                  | 3358094                         |
|                       | Male Decon Hose (inlet connector)                                 | 3358095                         |
|                       | 2nd Medium Pressure Combined connector                            | 3358091                         |
|                       | 2nd Medium Pressure Combined connector (Hansen Male se-<br>cured) | 3358092                         |
|                       | 2nd med pressure inlet connector (male secured)                   | 3358093                         |
|                       | ASV assembly (Permanent Fit)                                      | 3358850                         |
|                       | ASV assembly (Permanent Fit) CPS                                  | 3358874                         |
|                       |                                                                   |                                 |
|                       |                                                                   |                                 |



| Component             | Description                                     | Part No |
|-----------------------|-------------------------------------------------|---------|
| Additional Components | Demand valve holder - ESA                       | 3351655 |
|                       | LDV Holder -A                                   | 3339633 |
|                       | LDV Holder - A (factory fitted)                 | 3357525 |
|                       | LDV Holder - A (spare)                          | 3357527 |
|                       | LDV Holder - AE (factory fitted)                | 3357391 |
|                       | LDV Holder - AE (spare)                         | 3357528 |
|                       | LDV Holder - N / ESA (factory fitted)           | 3357524 |
|                       | LDV Holder - N / ESA (spare)                    | 3357526 |
|                       | Hose Clip                                       | 3357947 |
|                       | Hose clip                                       | 3357795 |
|                       | Hose Clip                                       | 3357745 |
|                       | Gauge Retaining Clip                            | 3352089 |
|                       | Hose Clip                                       | 3358623 |
|                       | D-ring Loop waistbelt                           | 3334968 |
|                       | D-ring and loop                                 | 3335241 |
|                       | Double D-Ring Loop waistbelt                    | 3337554 |
|                       | Carabiner                                       | 3357636 |
|                       | D-Ring                                          | R17905  |
|                       | Cheststrap                                      | 3339280 |
|                       | Telemetry for Bodyguard II                      | 3356677 |
|                       | FPS7000 IN-MASK HUD receiver unit               | 3355654 |
|                       | PSS Rescue Hood Kit                             | 3354982 |
|                       | Hose loop                                       | 3337088 |
|                       | Hose Loop                                       | 3339626 |
|                       | RFID Tag                                        | R56375  |
|                       | RFID Bung (LDV)                                 | 3358110 |
|                       | Cylinder Collar (for RFID tag transponder disk) | 3358111 |
|                       | Webbing Tidy                                    | 3358179 |
|                       | Waist Pad                                       | 3357753 |
|                       | Waist Belt ( polyester / rubber )               | 3358843 |
|                       | Label Material                                  | 3353296 |

All parts and components listed below meet the requirements for equipment marked as follows:

I M1

I M1

II 1 GD IIB T6 -30°C ≤ Ta ≤ +60°C and II 1 GD IIA T6 -30°C ≤ Ta ≤ +60°C

| Component | Description                                                         | Part No |
|-----------|---------------------------------------------------------------------|---------|
| Facemasks | Panorama Nova family - RA, PE, ESA, P<br>(Polycarbonate Visor-PC)   | FR00016 |
|           | Panorama Nova family – S-RA, PE, ESA, P<br>(Polycarbonate Visor-PC) | FR00026 |
|           | Futura / f 2 family - RA, PE, ESA P<br>(Polyamid Visor-PA)          | R29303  |
|           | Futura / f 2 family - S-RA, PE, ESA, P<br>(Polyamid Visor-PA)       | R29325  |
|           | FPS 7000 family - RA, (PE, ESA), P<br>(Polycarbonate Visor)         | R56401  |



(16) Test and Assessment Report

PP 10EXAM 10406 EG, as of 11<sup>th</sup> November 2010

(17) Special Conditions for Safe Use

Only parts and components listed in the tables under (15) above must be used in potentially explosive atmospheres. The parts and components selected must be suitable for the equipment with the relevant marking.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, Germany, 11<sup>th</sup> November 2010  
10EXAM 10406

**DEKRA EXAM GmbH**

A handwritten signature in black ink, appearing to read "Migenda", written over a horizontal line.

Certification body

A handwritten signature in black ink, written over a horizontal line.

Special services unit