

## Dräger PSS® 7000 Self Contained Breathing Apparatus

Developed by professionals for professionals, the Dräger PSS® 7000 breathing apparatus is a major milestone in our continuing development of breathing devices for the professional firefighter.



## Benefits

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### Complete, state-of-the-art personal safety system solution

Highlights include:

- Ready for telemetry operation with Dräger PSS Merlin System
  - Available with standard mechanical gauge, Tx gauge with Dräger Bodyguard 1500 or Bodyguard 7000 electronic monitoring
  - Comfortable yet highly durable shoulder and waist belt padding featuring a secure, high-friction surface to reduce slippage
  - Sliding and pivoting waist belt assembly
  - 3-point height adjustment
  - Breathing hoses integrated in the backplate
  - Reflective and photo-luminescent hose sleeves for improved visibility
  - Quick release pneumatics, shoulder and waist belt assemblies for easy service and maintenance
  - Optional Quick-Connect cylinder system for rapid exchange in the field and in the workshop
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### Height-adjustable carrying system

The PSS 7000 has been designed for maximum comfort and stability during use in harsh fire fighting environments. Incorporating a rigid harness connection to a 3-point-height adjustment backplate, advanced harness materials and a pivoting waist belt, the PSS 7000 remains firmly in position regardless of the task in hand.

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### Maximum performance harness material

The PSS 7000 utilizes new state-of-the-art harness materials which have been specially designed to withstand the high level wear and tear fire fighters subject them to on an almost daily basis. Incorporating sturdy stainless steel buckles and long-life Aramid blend webbing, it is well suited to extended wear and frequent use.

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### Service friendly, low maintenance

To keep both downtime and costs to a minimum during service and maintenance, the PSS 7000 incorporates a number of unique design features:

- Dräger's innovative "slide and lock" harness mechanism facilitates fast and simple harness and waist pad connection/removal from the backplate without the need for tools
- The first stage reducer snap fit connection allows the pneumatics to be fitted or removed quickly and easily from the SCBA
- "Push in and out" hose clips allow rapid removal of hoses from the harness pads for cleaning without the need to remove the clip itself
- Closed, single piece harness and waist pad design to prevent excessive water absorption, reducing cleaning and drying time

## Benefits

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### Versatile integrated hose routing

To minimize the risk of snagging and to protect against physical damage, both gauge and air supply hoses are run through integrated channels in the PSS 7000 backplate. The hoses are routed with up to two per side within the channels, allowing the PSS 7000 to be configured to the users preference. Conventional waist mounted hoses can also be fitted, making the PSS 7000 one of the most versatile SCBA's available.

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### Wide variety of system configurations and accessories

Dräger has revolutionized the use of breathing systems by creating a range of optional components that can be selected in combination to meet the fire fighter's specific needs regardless of the task. In addition to the standard features of the PSS 7000, it is also possible to add:

- Dräger Bodyguard 7000 electronic monitoring system
- Dräger Bodyguard 1500 PASS device with Tx gauge
- Twin cylinder configuration
- Quick-Connect (QC) cylinder connection
- Chargair quick filling
- Secondary supply connections for rescue, decontamination and/or airline use
- Dräger PSS Merlin Modem for telemetry applications
- Dräger PSS Rescue Hood
- Dräger PSS Safety Belt
- And many more...

The Dräger Quick-Connect is a revolutionary, fast-action cylinder exchange system which features a dual mechanical and pressure seal safety mechanism designed to prevent accidental cylinder disconnect from the SCBA.

- The pressure seal locks the cylinder to the SCBA while the system is pressurized
- The mechanical seal requires a dual action, twisting push motion to remove the cylinder from the reducer

With Quick-Connect, a cylinder can be securely attached to the reducer with a simple push down action. Exchange times can be reduced from minutes to seconds which can make all the difference in an emergency situation. The danger of cross threading or thread stripping is eliminated, and workshop maintenance is greatly facilitated.

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### Electronic monitoring with the Dräger Bodyguard 7000

The PSS 7000 has been designed to be fully compatible with the globally established Dräger Bodyguard 7000 electronic signal and warning unit as well as the PSS Merlin Telemetry System. The Dräger Bodyguard 7000 features an integrated design concept which integrates both power supply and pressure sensor modules within the backplate. This not only creates a balanced weight distribution, but also provides maximum component protection. Real-time monitoring of essential information such as time to whistle (based on current air

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consumption) and cylinder pressure is communicated via a lightweight, handheld electronic gauge and display and/or by a facemask-mounted Head-up Display (HUD).

Simultaneously this information can be transferred via the PSS Merlin Modem to an Entry Control Board or Xplore tablet / laptop PC running Dräger Merlin Software, further enhancing firefighter and fire ground safety.

Dräger Bodyguard 7000 at a glance

- Accurate, continuously updated air time remaining
- Digital and Analogue display of cylinder pressure
- Time to whistle (based on current air consumption)
- Intuitive operation
- Integrated personal alert safety system (PASS)
- Visual and acoustic warnings and alarms (102 to 112 dBA)
- Easy push-button operation
- Configurable settings to suit individual preferences
- Enhanced display with scrolling text
- Automatic self tests and system tests
- Datalog with personal ID
- PC Link Software (Windows® compatible)
- Choice of operating modes: Tally and Automatic
- Simple upgrade to Dräger FPS 7000 Head-Up Display (HUD)
- Simple integration with the Dräger PSS Merlin Modem

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### Electronic monitoring with the Dräger Bodyguard 1500

The Dräger PSS 7000 can also be fitted with the Dräger Bodyguard 1500, a wireless PASS system which increases wearer safety in potentially hazardous situations. The system draws attention to colleagues in distress by generating distinctive visual and acoustic alert signals and features wireless data transmission from the Tx pressure gauge to the Bodyguard 1500 PASS device.

Dräger Bodyguard 1500 at a glance

- Twin blue fascia LED's enhance user safety by highlighting wearers position in areas of poor visibility
- Backlit Tx pressure gauge wirelessly transmits pressure data to Bodyguard 1500 PASS device and optional Heads-up Display (HUD)
- Visual indication of low air pressure alerts on Tx gauge and Bodyguard 1500 PASS device.
- Integrated thermal alarm on Bodyguard 1500 PASS device alerts the wearer to exposure to elevated and rapidly rising temperatures
- Detachable Bodyguard 1500 PASS can be positioned anywhere on the wearer and can be detached for stand alone use.
- Both the Tx gauge and Bodyguard 1500 PASS devices incorporate datalogging capabilities for downloading incident history

## System Components



D-13866-2010

### Dräger FPS® 7000

The Dräger FPS® 7000 full face mask series sets new standards in terms of safety and wearing comfort. Thanks to its enhanced ergonomics and the availability of multiple sizes, it offers a large, optimised field of vision and a very comfortable, secure fit.



ST-135-2000

### Dräger Compressed Air Breathing Cylinders

Designed using leading technology and advanced materials, Dräger's range of Composite Cylinders can be used in any application where breathing becomes difficult or impossible.



ST-149-2000

### Dräger PSS® Lung Demand Valve (LDV)

Suitable for the most extreme applications whenever breathing apparatus has to be worn: with its compact and robust design, and excellent pneumatic performance, the Dräger PSS® Lung Demand Valve (LDV) will always deliver the air that you need.



D-382963-2015

### Dräger Bodyguard® 1000

Designed to protect life by alerting the team when a wearer becomes motionless or distressed, the Dräger Bodyguard® 1000 emits clear and distinctive signals and alarms to ensure quick and effective recognition, even in the worst environmental conditions.

## System Components



D-572385-2012

### Dräger Bodyguard® 1500

Dräger Bodyguard® 1500 is an automatic wireless PASS system which increases wearer safety in potentially hazardous situations. The system draws attention to colleagues in distress by generating distinctive visual and acoustic alert signals and features wireless data transmission from the pressure gauge to the PASS device.



ST-61688-2007

### Dräger Bodyguard® 7000

The Dräger Bodyguard® 7000 is an electronic monitoring unit which provides continuous monitoring of personal information and operational status of the Dräger PSS® 7000 and PSS® 5000 self contained breathing apparatus.



D-52717-2012

### Dräger PSS® Merlin® System

The Dräger PSS® Merlin® Telemetry System offers a precise overview of the status of respiratory equipment wearers. The vital status information is communicated directly between the entry control point and the wearer. Technology, which supports the incident, significantly increases safety and protects the lives of your breathing apparatus wearers.



D-287905-2015

### Dräger FPS®-COM 5000

Because there is no time for misunderstandings in an emergency: The Dräger FPS®-COM 5000 communication unit has been specifically developed for the full-face mask Dräger FPS® 7000 and ensures clear communication through a voice amplifier unit or radio device – even under extreme conditions.

## Accessories



D-31788-2015

### Dräger PSS® Safety Belt

The Dräger PSS® Safety Belt increases wearer safety in potentially hazardous situations by securing the fire fighter whilst working at height: providing work positioning, fall prevention and emergency self-rescue. The multifunctional belt is designed to be easily integrated into the Dräger PSS® 5000 and PSS® 7000 SCBA to safely anchor the wearer, without the need for an additional belt.



ST-6907-2006

### Dräger FPS® 7000 Head-up Display (HUD)

One of the many benefits of the FPS® 7000 Facemask is the option of fitting a head up display. Always within the field of view the head up display allows easy monitoring of the cylinder contents without any manual action by the wearer.



ST-6185-2007

### Dräger PAS® ASV

The Dräger Automatic Switch over Valve (PAS® ASV) enables the user to connect compressed air breathing apparatus to an external air supply, such as a factory ring main, and be safe in the knowledge that if the external supply were to fail, there would be a safe and uninterrupted transition to the wearer's back-up air supply.



ST-6183-2007

### Secondary Supply Hoses

A range of secondary supply hoses for shoulder or waist mounting, to give flexibility of use in emergency rescue scenarios.

## Related Products



D-7489-2010

### Dräger PSS® 3000

The Dräger PSS® 3000 is a high performing breathing apparatus for firefighters. Combining comfort with exceptional pneumatic performance, it is designed for applications where simplicity and ease of use are key essentials. Lightweight yet robust, and easy to don, this advanced breathing apparatus provides the ultimate in breathing protection.



D-38071-2015

### Dräger PSS® 4000

The Dräger PSS® 4000 is one of the lightest professional self-contained breathing apparatus for firefighters. Combining comfort with exceptional pneumatic performance, this SCBA is designed for applications where simplicity and ease of use are crucial. Lightweight yet robust, and easy to don, the PSS® 4000 provides outstanding breathing protection.



D-4266-2010

### Dräger PSS® 5000

The Dräger PSS® 5000 SCBA is a high-performance breathing apparatus for the professional firefighter. Combining advanced ergonomics with a wide range of configurable options, the Dräger PSS® 5000 provides the user with the comfort and versatility to meet the demands of first responders whenever breathing protection is required.



## Technical Data

|   | Dräger PSS® 7000 Pneumatic Gauge | Dräger PSS® 7000 Bodyguard®       |
|---|----------------------------------|-----------------------------------|
| Weight of complete set with Dräger FPS® 7000 full-face mask, lung demand valve and Dräger 6.8 litre carbon composite cylinder, 20 year design life (kg) | 11.7                             | 12.2                              |
| Input pressure (bar)  | 0 – 300                          | 0 – 300                           |
| Normal 1 <sup>st</sup> stage output pressure (bar)  | 7.5                              | 7.5                               |
| 1 <sup>st</sup> stage output flow (l/min)   | > 1,000                          | > 1,000                           |
| Pneumatic warning whistle activation pressure (bar)   | 50 – 60                          | 50 – 60                           |
| Pneumatic whistle sound Level (dBA)   | > 90                             | > 90                              |
| ADSU Main Alarm   | N/A                              | 102 to 112 dBA measured at 250 mm |
| Battery (5 x AA battery pack)   | N/A                              | > 365 hrs normal use              |
| Operating Temperature (°C)  | -30 to +60                       | -30 to +60                        |
| <b>Approvals</b>  |                                  |                                   |
| Breathing Apparatus   | EN 137: 2006 Type 2, vfdb 0802   | EN 137: 2006 Type 2, vfdb 0802    |
| Electromagnetic Compatibility   | N/A                              | EN 61000-6-2                      |
| Radiation Emissions   | N/A                              | EN 61000-6-3                      |

## Ordering Information

| Dräger PSS® 7000 Compressed Air Breathing Apparatus  |                            |                   | Description                       | Order No        |
|--|----------------------------|-------------------|-----------------------------------|-----------------|
| Dräger PSS® 7000 Pneumatic Gauge   | DIN Cyl. Thread connection | Single Cyl. Strap | Dräger PSS® 7000 SCS              | 33 55 068       |
|  |                            | Univ. Cyl. Strap  | Dräger PSS® 7000 TCS              | 33 55 930       |
|  | Cylinder Quick-Connect     | Single Cyl. Strap | Dräger PSS® 7000 QC SCS           | 33 56 542       |
| Dräger PSS® 7000 Bodyguard® 7000 Button  | DIN Cyl. Thread connection | Single Cyl. Strap | Dräger PSS® 7000 BG 7000 SCS      | 33 56 551       |
|  |                            | Univ. Cyl. Strap  | Dräger PSS® 7000 BG 7000 TCS      | 33 56 552       |
|  | Cylinder Quick-Connect     | Single Cyl. Strap | Dräger PSS® 7000 BG 7000 QC SCS   | 33 56 553       |
| Dräger PSS® 7000 Bodyguard® 7000 Tally   | DIN Cyl. Thread connection | Single Cyl. Strap | Dräger PSS® 7000 BG 7000 T SCS    | 33 56 679       |
|  |                            | Univ. Cyl. Strap  | Dräger PSS® 7000 BG 7000 T TCS    | 33 56 680       |
|  | Cylinder Quick-Connect     | Single Cyl. Strap | Dräger PSS® 7000 BG 7000 T QC SCS | 33 56 825       |
| * Tx Gauge options also available on the above variants  |                            |                   |                                   |                 |
| ** ChargAir options also available on the above variants   |                            |                   |                                   |                 |
| Dräger PSS® 7000 Pneumatic Gauge (customizable)  |                            |                   |                                   | 33 55 850       |
| Dräger PSS® 7000 Bodyguard 7000 Gauge (customizable)   |                            |                   |                                   | 33 56 567       |
| <b>Dräger PSS® 7000 Modular Upgrades / Accessories</b>   |                            |                   |                                   | <b>Order No</b> |
| Upgrade of PSS® 7000 with pneumatic gauge to Bodyguard 7000 (power supply NOT included) – button version |                            |                   |                                   | 33 57 101       |
| Upgrade of PSS® 7000 with pneumatic gauge to Bodyguard 7000 (power supply NOT included) – tally version  |                            |                   |                                   | 33 57 098       |
| PSS® Merlin® Modem Kit   |                            |                   |                                   | 33 57 982       |

## Ordering Information

|   |                 |
|---|-----------------|
| Dräger FPS® 7000 HUD In-Mask display  | 33 56 555       |
| Dräger PSS® 7000 AA Battery Pack (set of 5 batteries included)                                      | 33 56 556       |
| Dräger PSS® 7000 Rechargeable Battery Pack (Ni Mh) – for use with Dräger PSS® Merlin®               | 33 58 121       |
| Dräger PSS® 7000 Rechargeable Battery Pack (Ni Mh) – for use without Dräger PSS® Merlin®            | 33 61 471       |
| Dräger PSS® 7000 PC Link Module (incl. PC Link Software)  | 33 56 560       |
| Dräger PSS® 7000 Personal ID Cards (pack of 10)   | 33 56 561       |
| Second LDV connection / female decontamination hose w LF coupling                                   | 33 55 748       |
| Decontamination hose male   | 33 55 749       |
| T Piece (for 2 x 6.8L 300 bar carbon composite cylinders)   | 33 37 660       |
| Dräger PSS® 7000 2nd supply hose (male and female couplings)  | 33 56 530       |
| Dräger PSS® 7000 Airline Kit w ASV (QR) Occasional Use  | 33 55 844       |
| ASV Quick Fit   | 33 57 007       |
| Retaining Clip (for Gauge or Bodyguard® 7000)   | 33 52 089       |
| Waistbelt Loop  | 33 34 968       |
| LDV Holder PI   | 33 57 527       |
| LDV Holder M45  | 33 57 528       |
| LDV Holder ESA / RD40   | 33 57 526       |
| Cheststrap  | 33 39 280       |
| Dräger PSS® Rescue Hood   | 33 54 982       |
| Dräger RPS 3500 (Rescue Pack System)  | 33 56 824       |
| BA Set Hardshell Carrying Case (orange)   | 33 35 412       |
| BA Set Hardshell Carrying Case X large (orange) – for use with 9L cylinders                         | 40 59 430       |
| SCBA Holdall Carrying Bag   | 33 56 473       |
| <b>Lung Demand Valves approved for use with Dräger PSS® 7000 Compressed Air Breathing Apparatus</b> | <b>Order No</b> |
| Plus LDV Short Hose Push In (PI)  | 33 38 700       |
| Plus LDV Short Hose Push M45  | 33 38 706       |
| Plus LDV Short Hose Push M40  | 33 50 501       |
| Plus LDV Short Hose ESA   | 33 51 302       |
| Plus LDV M40 1.75m (Rescue Only)  | 33 50 606       |
| <b>Plus LDV's with special polymer diaphragm for use in H<sup>2</sup>S environments</b>             | <b>Order No</b> |
| Plus LDV Short Hose Push In (PI)  | 33 38 967       |
| Plus LDV Short Hose Push M45  | 33 38 968       |
| Plus LDV Short Hose Push M40  | 33 38 969       |
| Plus LDV Short Hose ESA   | 33 51 333       |
| <b>Complementary products</b>   | <b>Order No</b> |
| Dräger FPS® 7000 Full-Face Mask   | on request      |
| Dräger PSS® Safety Belt   | on request      |
| Compressed Air Breathing Cylinders  | on request      |

Notes

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## Notes

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