

## Dräger PSS® 7000 Compressed Air 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 fire fighter.



- Height-adjustable carrying system
- Extremely durable harness materials
- Service friendly, low maintenance
- Versatile integrated hose routing
- Wide variety of system configurations and accessories
- Optional electronic monitoring with the Dräger Bodyguard 7000

### COMPLETE, STATE-OF-THE-ART PERSONAL SAFETY SYSTEM SOLUTION

Highlights include:

- Ready for telemetry operation with PSS Merlin system
- Available with standard mechanical gauge 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 exchange system for rapid exchange in the field and in the workshop

### HEIGHT-ADJUSTABLE CARRYING SYSTEM

The Dräger 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 Dräger PSS 7000 remains firmly in position regardless of the task in hand.



**Dräger PSS® 7000**  
State-of-the-art breathing apparatus  
with Dräger Bodyguard® 7000  
electronic monitoring unit

## SYSTEM SOLUTIONS OF THE DRÄGER PSS® 7000

D-59556-2012



**Dräger HPS 7000  
Firefighter's helmet**  
Easy connection of the  
Dräger FPS 7000 with the Q-fix  
Adaptor of the Dräger HPS 7000.

D-54831-2012



**Dräger C-C 500 PTT  
Communication System**  
Push-to-Talk unit for use with  
Dräger FPS-COM-PLUS and  
Dräger FPS 7000.

ST-9907-2006



**Dräger FPS 7000 Head-Up-  
Display (HUD)**  
Displays cylinder contents within  
the wearers field of view.

ST-9494-2006



**Dräger FPS 7000**  
Full-face mask with various LDV  
connection option as well as  
adaptations for communication  
systems such as the integrated  
Dräger FPS-COM-PLUS.

ST-6201-2007



**Dräger PSS® Rescue Hood**  
For rescuing colleagues  
and members of the public  
in distress.



ST-5693-2006

ST-6165-2007



**Cylinder Quick-Connect**  
For quick connection and  
disconnection of cylinders.

ST-6184-2004 | ST-6183-2007



**Accessories**  
For the emergency, rescue and  
decontamination tasks.

ST-136-2000 | 573-2006



**Dräger Compressed  
Air Breathing Cylinders**  
Wide range of fully approved  
cylinders and valves.

ST-2408-2003



**Dräger PSS® Merlin®**  
Entry Control Board as part of  
the telemetry monitoring system  
for up to 12 fire fighters using  
Dräger Bodyguard®.

D-52717-2012



**Dräger PSS® Merlin® Software**  
State-of-the-art Telemetry  
Monitoring System using the  
Dräger PSS® Merlin® PC Modem.

D-2504-2010



**Dräger PSS® Merlin® Modem**  
For data transmission from  
a portable radio unit to the  
Dräger PSS® Merlin®  
Telemetry Monitoring System.

## DIFFERENT OPTIONS OF WARNING UNITS

ST-6168-2007



**Dräger Bodyguard® 7000**  
Electronic signal and  
warning unit with data logger

ST-357-2007



**Dräger Bodyguard® II**  
Electronic signal and warning  
unit with data logger

ST-603-2006



**Mechanical Gauge**



## **MAXIMUM PERFORMANCE HARNESS MATERIAL**

The Dräger 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.

## **SERVICE FRIENDLY, LOW MAINTENANCE**

To keep both downtime and costs to a minimum during service and maintenance, the Dräger 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.

## **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 Dräger PSS 7000 backplate. The LDV, gauge and

rescue hoses can now be routed over the left and/or right shoulders (2 hoses per side), allowing the Dräger PSS 7000 to be configured to any standard. Conventional waist mounted hoses can also be fitted, making the Dräger PSS 7000 one of the most versatile SCBA's available.

## **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 Dräger PSS 7000, it is also possible to add:

- Dräger Bodyguard 7000 electronic monitoring system
- Twin cylinder configuration
- Quick-Connect (QC) cylinder connection
- Chargair quick filling
- Secondary supply connections for rescue, decontamination and/or airline use
- PSS Merlin Modem for telemetry applications
- PSS Rescue Hood
- 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.

## **ELECTRONIC MONITORING WITH THE DRÄGER BODYGUARD 7000**

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

This information can be simultaneously transferred to the PSS Merlin Entry Control Board or the PSS Merlin Entry Control Software via the PSS Merlin Modem, further enhancing fire ground safety.

## DRÄGER PSS 7000

Robust heavy duty stainless steel buckles

Quick release mechanism on shoulder pads and waist belt

3-point height adjustment

Power supply module

Large built in carrying handles

Sliding swivelling waist belt

1<sup>st</sup> stage reducer

Dräger Bodyguard warning device

Light weight carbon composite backplate

Hose channels integrated into backplate

Pressure module

ST-6147-2007

### 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 facility
- Automatic self tests and system tests
- Data log 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 of the Dräger PSS Merlin Modem for telemetry operation



D-20382-2010

#### High-Tech Harness

Closed, single piece harness and waist pad design to prevent excessive water absorption, reducing cleaning and drying time.



ST-603-2006

#### DRÄGER PSS 7000 Pressure Gauge

The pressure gauge features a high visibility luminescent display. The injector-free warning whistle located in the gauge cover is well protected from dirt and very robust. The shoulder strap secures and manages the combination high-pressure / medium-pressure hose for the pressure gauge and the warning whistle.



## ORDER 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 BG7000 SCS	33 56 551
		Univ. Cyl. Strap	Dräger PSS® 7000 BG7000 TCS	33 56 552
	Cylinder Quick-Connect	Single Cyl. Strap	Dräger PSS® 7000 BG7000 QC SCS	33 56 553
Dräger PSS® 7000 Bodyguard® 7000 Tally	DIN Cyl. Thread connection	Single Cyl. Strap	Dräger PSS® 7000 BG7000 T SCS	33 56 679
		Univ. Cyl. Strap	Dräger PSS® 7000 BG7000 T TCS	33 56 680
	Cylinder Quick-Connect	Single Cyl. Strap	Dräger PSS® 7000 BG7000 T QC SCS	33 56 825
Dräger PSS® 7000 Pneumatic Gauge (customizable)				33 55 850
Dräger PSS® 7000 Bodyguard® (customizable)				33 56 567

**Dräger PSS® 7000 Modular Upgrades/Accessories**

	Order No
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	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 × 6.8 liter 300 bar carbon composite cylinders)	33 37 660
Dräger PSS® 7000 2 <sup>nd</sup> Supply hose (male and female couplings)	33 56 530
Dräger PSS® 7000 Airline Kit w ASOV (QR) Occasional Use	33 55 844
Retaining Clip (Gauge/Bodyguard®)	33 52 089
Waistbelt Loop	33 34 968
LDV Holder/Gauge/Bodyguard® (push-in)	33 39 633
Cheststrap	33 39 280
Dräger PSS® Rescue Hood	33 54 982
BA Set Hardshell Carrying Case (orange)	33 35 412
BA Holdall Carrying Bag	33 56 473

**Lung Demand Valves approved for use with Dräger PSS® 7000 Compressed Air Breathing Apparatus**

Plus LDV Short Hose Push in	33 38 700
Plus LDV Short Hose M45	33 38 706
Plus LDV Short Hose M40	33 50 501
Plus LDV M40 1.75 m (rescue only)	33 50 606

**Plus LDVs with special polymer diaphragm for use in H<sub>2</sub>S environments**

Plus LDV Short Hose Push in	33 38 967
Plus LDV Short Hose M45	33 38 968
Plus LDV Short Hose M40	33 38 969

## SELECTED ACCESSORIES/UPGRADES



Plus LDV



Airline Belt manifold with ASV



Secondary supply hose



AA battery module



Nickel Metal Hydride battery module



Desktop charger (shown with batteries)

## 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)	> 1000	> 1000
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 × 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
Intrinsic Safety		ATEX 94/9/EC classification is I M1/II 1GD EEx ia I/IIC T4 (Ta = -30 °C to +60 °C)
Electromagnetic Compatibility	N/A	EN 61000-6-2
Radiation Emissions	N/A	EN 61000-6-3

## CORPORATE HEADQUARTERS

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