

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

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

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.

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.

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

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.

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.

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

Benefits

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

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-38263-2015

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-6168-2007

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-287805-2015

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-42665-2010

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 st stage output pressure (bar)	7.5	7.5
1 st 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
Approvals		
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

Dräger PSS® 7000 Modular Upgrades / Accessories

Upgrade of PSS® 7000 with pneumatic gauge to Bodyguard 7000 (power supply NOT included) 33 57 101

– button version

Upgrade of PSS® 7000 with pneumatic gauge to Bodyguard 7000 (power supply NOT included) 33 57 098

– tally version

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
Lung Demand Valves approved for use with Dräger PSS® 7000 Compressed Air Breathing Apparatus	Order No
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
Plus LDV's with special polymer diaphragm for use in H²S environments	Order No
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
Complementary products	Order No
Dräger FPS® 7000 Full-Face Mask	on request
Dräger PSS® Safety Belt	on request
Compressed Air Breathing Cylinders	on request