

## Dräger PSS® BG 4 plus Accessories for Breathing Apparatus

Specially designed for demanding tasks, The Dräger PSS® BG 4 plus closed-circuit breathing apparatus combines uncompromising safety with outstanding respiratory protection and wearer comfort. Innovative in design, it provides the wearer with up to four hours of breathing air in toxic environments.

**Breathing hose**

Ideal balance and freedom of movement due to positioning of the hose over the shoulders

**Robust housing**

Fiber reinforced housing protects you and your equipment

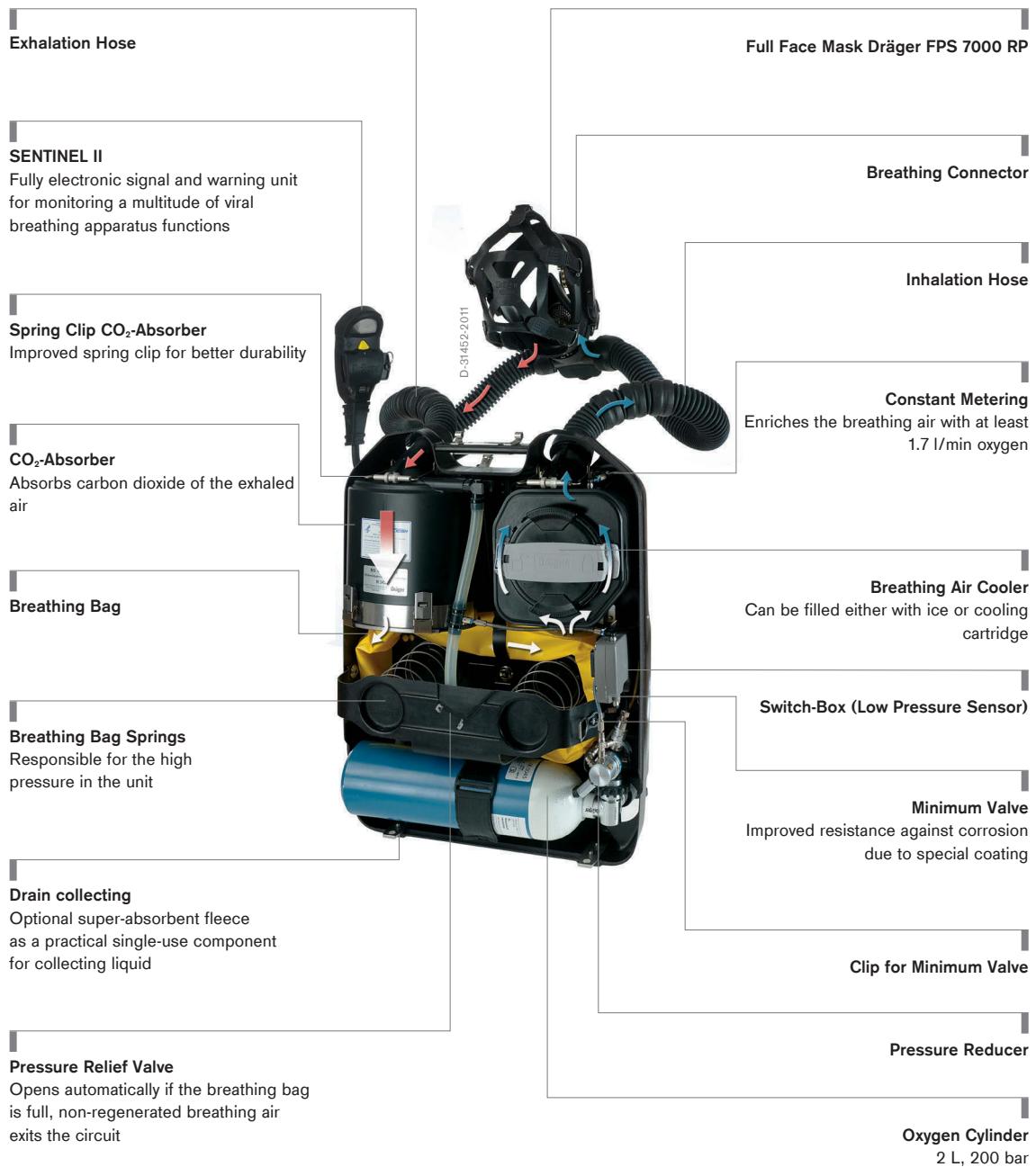
**Reflective stripes**

Clear visibility, even in dark environment

**“Pull-Forward” waist belt and adjustable shoulder straps**

Easy donning in confined spaces as well as high quality ergonomics

# Dräger PSS® BG 4 plus



## Benefits

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### Dräger PSS BG 4 plus

Whenever emergency teams are saving lives or extinguishing fires, above or below the ground, the Dräger PSS BG 4 plus comes into its own. Whether used during rescue or fire fighting missions in mines, tunnels or underground train ducts, or in assignments with long access routes, the closed-circuit breathing apparatus is the first choice. More than 25,000 professional users rely on the Dräger PSS BG 4 worldwide.

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### Optimized in conjunction with our customers

Our products must meet the precise needs of the user and, for this reason, we involve our customers in the development process. Modifications to the proven Dräger PSS BG 4 are the result of practical experience and constant monitoring to ensure the highest quality standards. We listened to our customers and implemented their requirements in the new Dräger PSS BG 4 plus. Numerous improvements and new accessories have increased safety and durability and further improved the ease of servicing. The modifications are available individually or as a practical retrofit set upon request.

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### Excellent suitability for extended use

The slight positive pressure breathing circuit protects the wearer by preventing hazardous substances from entering the sealed breathing system. Depending on the application, the duration of use is up to four hours. A CO<sub>2</sub> absorber removes carbon dioxide from the exhaled air. At the same time the breathing air is enriched with oxygen from the oxygen cylinder. Before the regenerated breathing air is inhaled again it flows through the breathing air cooler.

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### Product enhancements

Both the minimum valve, which enriches the breathing air with additional oxygen upon demand, and its attachment clip have been treated with a special coating to protect against corrosion. A redesigned clip simplifies the fitting of the valve. The area around the pressure reducer has been reinforced and additional reinforcement protects the carrying plate, providing greater stability when handling the unit complete with oxygen cylinder. To reduce the temperature of the inhaled air and minimise physical stress to the wearer, the breathing air cooler can be filled with ice.

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### Practice-oriented innovations

Newly developed heat protection for the breathing hose and housing are also optionally available to further reduce the temperature of the inhaled air. A T-piece with water trap can be retrofitted to the facemask to prevent water from collecting in the flow area of the device. Any liquid discharged into the breathing circuit from the drain valve is optionally collected in a super absorbent fleece. The fleece is designed for single use and is easily disposed.

## Benefits

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### **Cooler breathing air without ice**

An alternative cooler which requires no ice and makes separate cooling logistics obsolete is also available. Reactivated after only 5 hours, the cooler offers unlimited use and is easily retrofitted. An improved spring clip ensures its safe attachment.

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### **Simple CO<sub>2</sub> disposal**

Complete with integral dust filter, the flow-sensitive CO<sub>2</sub> absorber is available as either a single-use absorber or refillable cartridge. Fitted with a newly designed spring clip, the CO<sub>2</sub> absorber offers increased spring durability. The position and size of the breathing hose connectors have also been optimized for easier handling during assembly. For hygienic storage the single-use absorbers are available in a sealed bag.

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### **Proven wearer comfort**

The ergonomically shaped carrying plate, the low weight and the proven harness with adjustable shoulder straps and easy to use "pull-forward" design provide more freedom of movement with less effort. The practical breathing hose routing across the shoulders ensures optimum balance on the wearer's back.

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### **Perfect respiratory protection monitoring**

The data captured by the Dräger Sentinel II electronic monitoring unit can be transmitted to Dräger PSS Merlin telemetry boards. This electronic monitoring and communications system displays Sentinel data for each of the wearers who are logged on. As a result, entry control personnel are able to view the current status of each of the device wearers and can respond immediately to an emergency.

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### **All functions upon a glance**

The Dräger PSS BG 4 plus is equipped with the Dräger Sentinel II fully electronic signal and warning unit. Controlled via large pushbuttons, it combines a multitude of functions. During use it quickly provides the wearer with important information, thereby reducing the risk potential. Using battery warning thresholds the Dräger Sentinel II reliably indicates current operational status.

Monitoring functions:

- Cylinder pressure (analog and digital)
- Remaining duration of use (time remaining until residual pressure warning)
- Temperature indication upon the press of a button
- Automatic recording of all mission data Optical and acoustic warning signals:
- Residual pressure warning
- Two additional selectable electronic alarm thresholds
- Automatic alarm for lack of movement
- Manual emergency call alarm

## Benefits

Optical and acoustic warning signals:

- Residual pressure warning
- Two additional selectable electronic alarm thresholds
- Automatic alarm for lack of movement
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### High performance soda lime

Drägersorb 400 has been specially designed for the absorption of CO<sub>2</sub> in closed-circuit breathing apparatus which significantly contributes to long-term performance capabilities, especially under the likely conditions of use for the Dräger PSS BG 4 plus. Drägersorb 400 is characterized by a very high abrasion resistance and can, therefore, be used in the apparatus for 6 months, or up to 500 km when stored in the vehicle.

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### Easy maintenance

Both the retrofittable vibration protection and the robustly designed locking hinge increase the safety of the Dräger PSS BG 4 plus during transportation. For maximum operational readiness, the Dräger PSS BG 4 plus has been designed to allow the fast assembly and/or removal of device components without special tools.

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### New in the team: the full-face mask Dräger FPS 7000 RP

The full-face mask Dräger FPS 7000 ideally complements the Dräger Panorama Nova product family. With an improved head harness and available in various sizes, it adjusts perfectly to every face shape. With its dual sealing line, the almost natural field of view and easy-to-operate wiper, ensures a safe tight fit and good all-round visibility. An optional adapter enables the connection of the comfortable CamelBak® drinking system. Liquid only flows through the straw when the integrated biting valve is pressed together by the teeth.

\*CamelBak® is a trademark of Camelbak Products, LLC.

## System Components



### Dräger FPS 7000 RP

With plug-in connector for closed-circuit breathing apparatus PSS® BG 4 plus, with polycarbonate anti-scratch coated visor and wiper.

Also available with drinking device. Approval for mining and fire fighting.



### Dräger oxygen cylinder



### Drägersorb®

Drägersorb® 400 is a soda lime product used to absorb acid gases, such as carbon dioxide (CO<sub>2</sub>), in closed or semi-closed circuit breathing apparatus, such as the Draeger PSS BG 4 plus, for mining or fire rescue operations. High-tech devices and state of the art absorbents are perfectly matched with the Drägersorb® 400.



### Dräger CO<sub>2</sub> absorber

Refillable cartridge, translucent

R 34 367

## System Components



### Dräger CO<sub>2</sub> absorber

Single-use cartridge, translucent

R 34 360

## Accessories



### T-piece with water trap

Prevents the collection of water in the flow area of the device connection.

R 34 725



### Heat protection

for breathing hoses and housing, reduces the temperature of the inhaled air when fire fighting

R 34 644

## Accessories



### Freezer Canister

Cooler for ice cooling or Cooling cartridge (empty) for PSS® BG 4 positive pressure.

R 34 710



### Regeneration cooler

No ice required, unlimited use, reactivation after 5 hours

R 34 720



### Dust sieve

Sieving the soda lime before pouring into the refillable cartridge

R 32 618



### Dust-filter (200 each)

for BG 4-Refill-Cartridge

R 35 754

## Accessories



### Filling station

R 33 752



### Freezer canister cooler Dräger PSS® BG 4

To produce ice plugs

R 33 999



### Test kit

With all adapters required for testing

R 33 777



### Retrofit kit

Step 1 for EN

R 34 641

Step 1 for NIOSH

R 34 681

## Accessories



### Isolation for Dräger PSS® BG 4

For operations with temperatures under -15°C

R 34 498



### Antifog Spray

Prevent fogging of visor

R 56 542



### Single Use Absorber

To catch fluid out of drain valve

R 34 633

## Services



D-19073-2016

### Dräger Service

With Dräger's service solutions, you get complete peace of mind and budget security knowing that your safety equipment is supported by the same team of experts that engineered it and is backed by over 125 years of experience. You can rely on Dräger to keep the devices you depend on operating at peak performance and to always put the safety of your team first. That's the Dräger Service Advantage.

## Related Products



D-66663-2010

### Dräger Quaestor 5000

Empower your service technicians with the Dräger Quaestor 5000, a dynamic test instrument that allows for semi-automatic testing of respiratory protection products. Designed to meet maximum quality standards, the modular Dräger Quaestor 5000 provides reliable and effective test processes—while reducing time and effort.



D-38692-2015

### Dräger RZ 7000

Easy to use: With the Dräger RZ 7000 you can carry out the function and leak tests of the Dräger PSS® BG 4 plus easier and faster than ever before.

## Technical Data

### Dräger PSS® BG 4 plus

Duration of use	4 h according to EN 145 and NIOSH
Weight, ready for use (kg/pound)	15,5 kg / 34.17 pound (incl. mask, full oxygen cylinder (aluminum), CO <sub>2</sub> absorber and approx. 1,2 kg / 2.65 pound cooling ice)
Dimensions (H × W × D) (mm/inch)	595 x 450 x 185 mm 23.43 x 17.72 x 7.28 inches
Constant oxygen metering (l/min O <sub>2</sub> )	1.5 to 1.9
Minimum valve (l/min O <sub>2</sub> )	> 80
Breathing bag volume (l)	5.5
Bypass valve (l/min O <sub>2</sub> )	> 50
Operating temperatures	-40°C / -40°F to +90°C / +194°F (if stored at room temperature)
Approvals	EN 145, Ex protection according to EN IEC 60079, Ex IIC T4, Ex ial and NIOSH

## Ordering Information

### Dräger PSS® BG 4 plus

Dräger PSS® BG 4, 4-hour Positive Pressure Closed Circuit Breathing Apparatus with Sentinel II, USA	High pressure, NIOSH	40 57 380
Dräger PSS® BG 4, 4-hour Positive Pressure Closed Circuit Breathing Apparatus with Sentinel II, USA, Complete with Mask, L.W. Carbon Cylinder and Valve and Black Pelican Case	High pressure, NIOSH	40 57 227
Dräger PSS® BG 4, 4-hour Positive Pressure Closed Circuit Breathing Apparatus with Sentinel II, USA, Complete with FPS 7000 Hydration Mask, L.W. Carbon Cylinder and Valve and Black Pelican Case	High pressure, NIOSH (	40 58 823
Dräger FPS 7000	Full face mask with central connecting for closed circuit breathing apparatus	R 56 326
RP-EPDM-M2-PCas-CR	Dräger PSS® BG 4 plus. Mask body, inner mask and head harness made of EPDM. With anti-scratch coated polycarbonate visor and wiper. Available as an option is the CamelBak drinking system	

### Required for operation

Dräger FPS 7000	Full face mask with central connecting for closed circuit breathing apparatus	R 56 326
RP-EPDM-M2-PCas-CR	Dräger PSS® BG 4 plus. Mask body, inner mask and head harness made of EPDM. With anti-scratch coated polycarbonate visor and wiper. Available as an option is the CamelBak drinking system	
Further variants and sizes on request		

### Accessories for communication

Receiver with ear cup and microphone	Optionally, the Dräger FPS 7000 RP can be equipped with a telephone device or a Dräger MS-COM.	R 28 495
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## Ordering Information

Both telephone device and Dräger FPS  
7000 MS-COM are approved in accordance  
to 94/9/EG for operations in explosive  
areas

### Expansion sets

Dräger PSS® BG 4 sticker for cover	Large, front left	R 34 682
	Large, front right	R 34 683
	Small, front left	R 34 684
	Small, front right	R 34 685

### Upgrade Kit low warning

Upgrade kit	To convert Dräger BG 4 and Dräger PSS® BG 4 high pressure devices on new control wire	R 34 630
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### Radio Kit for Dräger PSS® BG 4 plus

Dräger Interface Software Bg Ir-Link II	33 51 342
Dräger PC Data Link Cable	33 54 304

## Notes

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