

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 environments

"Pull-Forward" waist belt and adjustable shoulder straps

Easy donning in confined spaces as well as high quality ergonomics



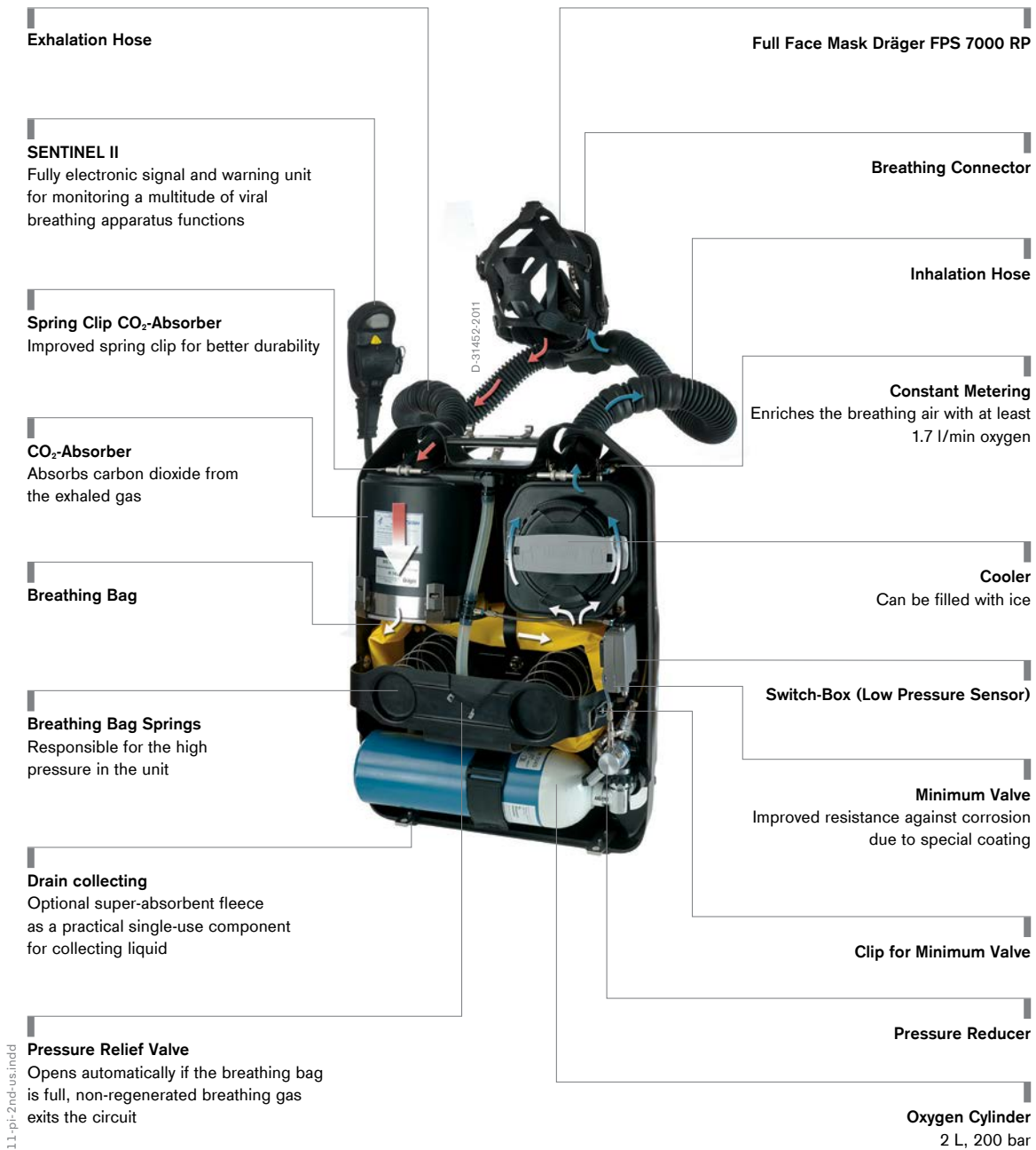
Dräger PSS® BG 4 plus Breathing Apparatus

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 gas in toxic environments.

Dräger

Technology for Life

Dräger PSS® BG 4 plus



D-31452-2011-pi-2nd-us.indd

Benefits

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.

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.

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 CO₂ absorber removes carbon dioxide from the exhaled gas. At the same time the breathing gas is enriched with oxygen from the oxygen cylinder. Before the regenerated breathing gas is inhaled again it flows through the cooler.

Product enhancements

Both the minimum valve, which enriches the breathing gas 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 gas and minimize physical stress to the wearer, the cooler can be filled with ice.

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 gas. 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.

Simple CO₂ disposal

Complete with integral dust filter, the flow-sensitive CO₂ absorber is available as either a single-use absorber or refillable cartridge. Fitted with a newly designed spring clip, the CO₂ 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.

Benefits

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.

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 push buttons, 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:

Optical and acoustic warning signals:

- Residual pressure warning
- Two additional selectable electronic alarm thresholds
- Automatic alarm for lack of movement
- Manual emergency call alarm

High performance soda lime

Drägersorb 400 has been specially designed for the absorption of CO₂ 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 300 miles when stored in a vehicle.

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.

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, the FPS 7000 RP ensures a safe tight fit and good all-around 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.

Benefits

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

System Components



D-28800-2015

Dräger FPS 7000 RP

The Dräger FPS 7000 with an RP connection is the perfect complement to the Dräger PSS BG 4 closed circuit breathing apparatus. Because the FPS 7000 RP with hydration provides a source of relief, it is the ideal choice for long-duration missions such as tunnel and subway fires.



D-23565-2009

Dräger oxygen cylinder



D-23525-2009

Drägersorb®

Drägersorb® 400 is a soda lime product used to absorb acid gases, such as carbon dioxide (CO₂), 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.

System Components

D-23520-2009



Dräger CO₂ absorber

Refillable cartridge, translucentR 34 367

Accessories

D-23560-2009



T-piece with water trap

Prevents the collection of water in the flow area of the deviceconnection.
R 34 725

D-23561-2009



Freezer Canister

Cooler for ice cooling for PSS® BG 4 positive pressure.

R 34 710

Accessories

D-23527-2009



Dust-filter (50 each)

for BG 4-Refill-Cartridge
4058167

D-23521-2009



Filling station

R 33 752

D-23532-2009



Freezer canister cooler Dräger PSS® BG 4

To produce ice plugs

R 33 999

D-23531-2009



PSS BG 4 Plus Test Kit

With all adapters required for testing
R 33 777

Accessories

D-23542-2009



Insulation for Dräger PSS® BG 4

For operations with temperatures under -15°C

R 34 498

D-23537-2009



Antifog Spray

Prevent fogging of visor

R 56 542

Services

D-19072-2016



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-1361-2021

Dräger Quaestor 8000

All static and dynamic tests of the Dräger Quaestor 8000 are carried out fully automatically. Controlled by the proven Protector software, each test is carried out intuitively. For you, this guarantees high efficiency through comfort and speed.



D-38692-2015

Dräger RZ 7000

Easy to use: With Dräger RZ 7000 you can carry out the function and leak tests of Dräger CCBA 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 ₂ absorber and approx. 1,2 kg / 2.65 pound cooling ice)
Dimensions (H x W x D) (mm/inch)	595 x 450 x 185 mm 23.43 x 17.72 x 7.28 inches
Constant oxygen metering (l/min O ₂)	1.5 to 1.9
Minimum valve (l/min O ₂)	> 80
Breathing bag volume (l)	5.5
Bypass valve (l/min O ₂)	> 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, Eex IIC T4, Eex ial and NIOSH and MSHA

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

Required for operation

Dräger FPS 7000 RP-EPDM-M2-PCas-CR	Full face mask with central connecting for closed circuit breathing apparatus 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	R 56 326
Further variants and sizes on request		

Accessories for communication

Dräger FPS COM 5000 RP Voice Amp Only		R 62 992
Dräger FPS COM 5000 RP Voice Amp & Radio Connection		R 62 993
Dräger FPS COM 5000 RP Voice Amp & Drinking Adapter		R 62 994
Dräger FPS COM 5000 RP Voice Amp, Drinking Adapter & Radio Connection		R 62 995
PSS BG 4 Plus Cylinder		B30229
BG ProAir Cylinder with BG 4 valve		R 34 630
BG ProAir Cylinder Cradle for BG 4		3700348

Ordering Information

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

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