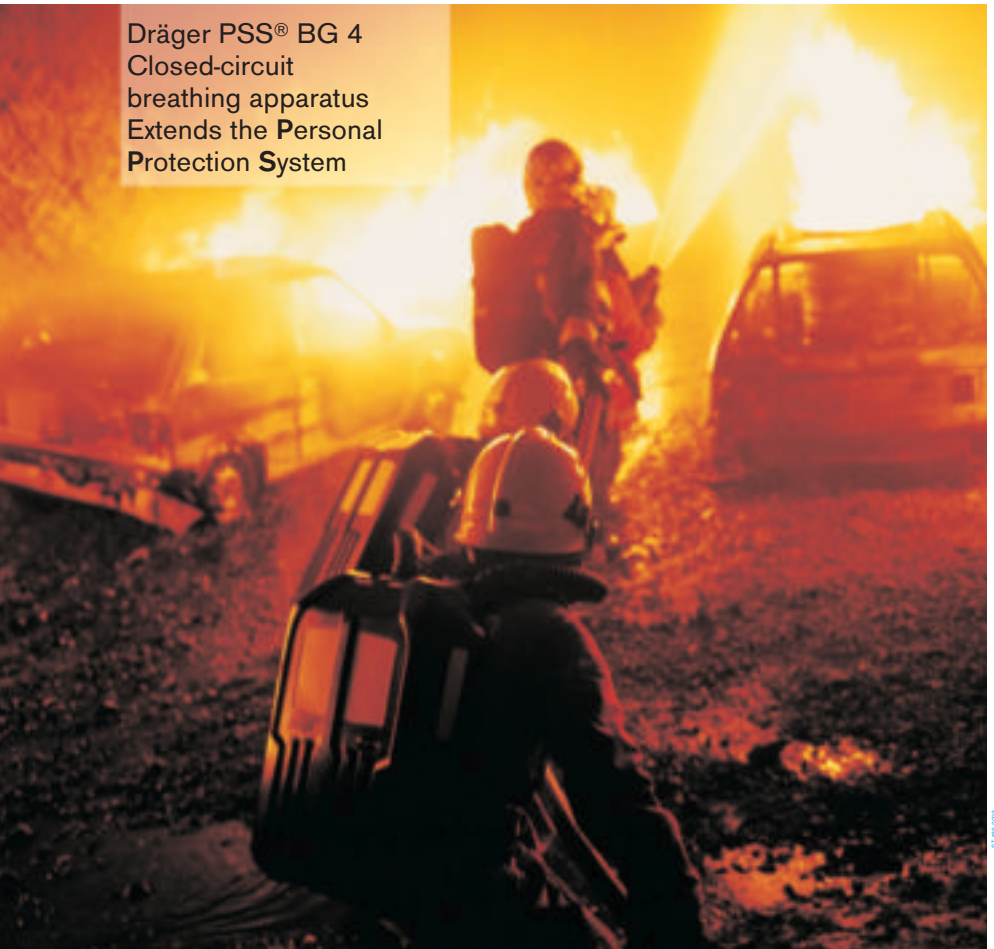


Established in mines – optimized for fire-service use

Dräger PSS® BG 4
Closed-circuit
breathing apparatus
Extends the **Personal
Protection System**



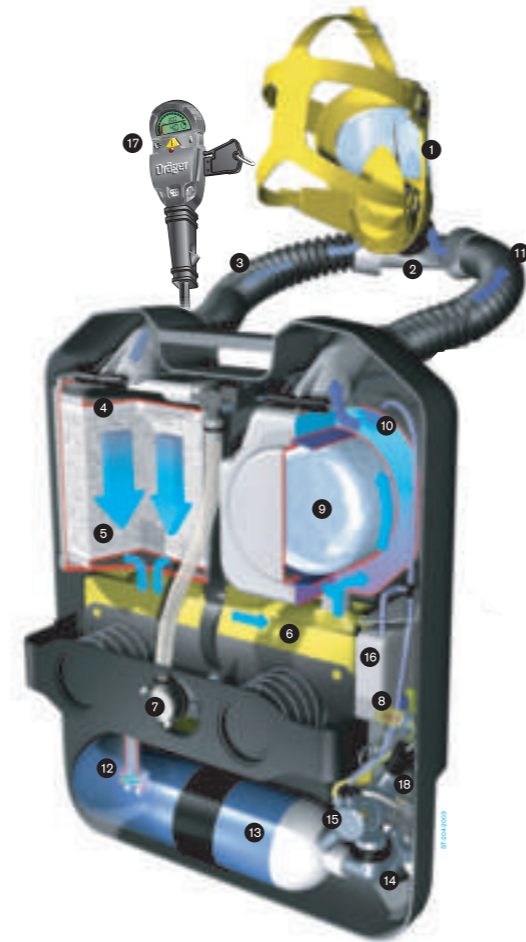
Breathing is essential to living. For more than a century, the name Dräger has been synonymous with safe breathing throughout the world. Wherever this vital function is impeded or threatened, our products help to monitor, protect and support human

health and life. Our goal is to ensure continuous verification of the very highest quality standards and to incorporate the results of practical experience and our customers' wishes in each successive generation of equipment.

The new Dräger PSS® BG4

The new Dräger PSS® BG 4 closed-circuit breathing apparatus is the result of consistent implementation of these principles. It is the innovative successor to the tried-and-tested BG 4 for use by the fire services. Safety standards for this area of use are re-defined with the Dräger PSS® BG 4, thus appropriately and efficiently expanding the concept of a Personal Safety System, PSS® for short.

Users of the Dräger PSS® BG 4 closed-circuit breathing apparatus are supplied with breathing air for up to four hours so that they can operate even in atmospheres containing little oxygen and/or pollutants. The slight positive pressure in the breathing circuit protects the user against the ingress of pollutants into the closed breathing circuit. The carbon dioxide contained in the exhaled air is bound by the CO₂ absorber. At the same time, the breathing air is enriched with oxygen from the oxygen cylinder. Before the regenerated air is re-breathed, it streams through a breathing air cooler, thus making the Dräger PSS® BG 4 ideal for long-term use in toxic environments.



Components

- 1 Mask
- 2 Connector
- 3 Exhalation hose
- 4 Dust filter
- 5 Soda lime cartridge
- 6 Breathing bag
- 7 Relief valve
- 8 Minimum valve
- 9 Cooler
- 10 Constant flow
- 11 Inhalation hose
- 12 Drainage valve
- 13 O₂ cylinder
- 14 Cylinder valve
- 15 Pressure reducer
- 16 Electronic low-pressure warning
- 17 Bodyguard® II
- 18 Sensor

Features

The Dräger PSS® BG 4 offers numerous features for safer use

- **DrägerMan Bodyguard® II**
The electronic signal and warning unit delivers vital information thus increasing safety during use.
- **Anti-vibration strap**
Ensures that your closed-circuit breathing apparatus can be transported safely in motor vehicles
- **Optimum wear comfort**
The ergonomically shaped carrying frame, the low weight and the improved harness ensure

considerable freedom of movement and less physical effort

- **High breathing comfort**
Due to the slight positive pressure in the breathing circuit, the spring-loaded breathing bag protects the user against toxic ambient gases, for instance if there is a leak in the face seal. To reduce the temperature of the inhaled air and thus reduce the physical burden for the user, the breathing air cooler can additionally be filled with ice.
- **CO₂ absorber**
The flow-promoting CO₂ absorber

with integrated dust filter is available as a grey disposable absorber or as a transparent refillable cartridge, entirely as you require.

- **Easy maintenance**
The Dräger PSS® BG 4 can also be mounted and removed quickly and easily:
 - No tools
 - Bayonet rings
 - Improved breathing bag catches
 - Permanently installed springs in the relief and drainage valve
 - Innovative opening and closing mechanism



DrägerMan Bodyguard® II

The DrägerMan Bodyguard® II is an electronic signal and warning unit. It supplies information quickly and clearly, visually and acoustically, in analog and digital format. Its unique performance range is outstanding.

Monitoring functions:

- Cylinder pressure (analog and digital)
- Time-to-whistle (time remaining until the low-pressure warning is generated)
- Temperature indication at the push of a button
- Automatic record of all operational data

Visual and acoustic warnings:

- Low-pressure warning
- Two additional, freely selectable electronic alarm thresholds
- Automatic Distress Signal Unit (ADSU / PASS)
- Manually triggered emergency alarm

Telemetry Ready

Data recorded by the Bodyguard can be displayed by the PSS® Merlin entry control board via a digital radio transmission.

DrägerMan PSS® Merlin

The DrägerMan PSS® Merlin is the world's first telemetric monitoring and communication system to be incorporated into the respiratory protective equipment. Automatic online transmission of up-to-the-minute data from the closed-circuit respiratory protective equipment to the monitoring panel ensures that an officer outside of the incident is kept informed of the users' momentary situation and can intervene immediately if an emergency arises. Convincing advantages for your safety.

- **Automatic two-way communication:**
The PSS® Merlin is fully electronic and automatic, activated simply by inserting the transponder tally. Signals are sent by digital radio transmission and can be given, received and acknowledged by the wearer of the officer outside of the incident.





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Technical data

Usage period	4 h as per EN 145
Weight	14.8 kg
(incl. mask, oxygen cylinder, CO ₂ absorber and approx. 1.2 kg ice)	
Dimensions	583 x 450 x 185 mm
Constant dosage	1.5 – 1.9 l/min
Minimum valve	> 80 l/min
Breathing bag capacity	5.5 l
Bypass valve	> 50 l/min
Usage temperatures according to EN 145	
	-15 °C bis +40 °C
(when stored at ambient temperature)	
Approved in accordance with EN 145,	
Ex-proof type-tested	

The modular sets

The modularity of this system ensures that step by step upgrade is possible:

- The modular Dräger PSS® BG 4 harness set creates a highly flexible and comfortable carrying system
- The modular Dräger PSS® BG 4 Bodyguard set supplements your BG 4 to include the DrägerMan Bodyguard® II. The innovative, user-friendly warning and signal unit ensures safety and permits communication with the DrägerMan PSS® Merlin.
- The modular Dräger PSS® BG 4 anti-vibration strap set ensures that your closed-circuit breathing apparatus can be transported safely in the fire engine.

Order List

PSS® BG 4 EP (G3/4)	R34501
PSS® BG 4 FEP (M24 x 2)	R34502
PSS® BG 4 IP (W21.8 x 1/14")	R34505
BG 4 AP with flameproof harness, anti-vibration strap	R34102
BG 4 CP with flameproof harness, anti-vibration strap	R34103
Parts required for operation	
Mask	
Panorama Nova EPDM PC RP	R53306
Panorama Nova EPDM PC RP T	R53307
Panorama Nova Silicone PC RP	R53316
Panorama Nova Silicone PC RP T	R53333
Panorama Nova Supra EPDM PC RP	R53670
CO₂ Absorber	
Disposable cartridge	R34360
Refillable cartridge, transparent	R34367
Oxygen cylinder	
2 L 200 bar, steel, G3/4	B10220
2 L 200 bar, fibre-reinforced plastic, G3/4	B10203
2 L 200 bar, steel, W21.8 x 1/14"	B10219
2 L 200 bar, steel, M24x2	B10217
Accessories	
for refillable cartridge	
Drägersorb 400 8 kg	6737965
Drägersorb 400 18 kg	6737985
Drägersorb 400 40 kg	6755001
sieve	R32618
Dust filter (set of 200)	R35754
Charging station	R33752
Ice container	R33999
Universal tester RZ 25	E08200
Test set (with all adapters needed for testing)	R33777
Modular sets:	
PSS® BG 4 Harness	R34255
PSS® BG 4 Bodyguard® II	R34259
PSS® BG 4 Anti-vibration strap	R34238

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DrägerService

Dräger equipment must always be fully operational and safe. DrägerService offers a regular inspection service and is quickly available in the event of malfunction. Your equipment will be repaired and back in operation as quickly as possible. Dräger-Service facilitates the vital flow of information between client and manufacturer.

Dräger Expertise

Since 1889, Dräger has had an outstanding reputation for solving problems in the field of human breathing. Dräger has been deeply involved in the handling of gases, in particular hazard protection and the saving of life in medical and industrial emergencies. Many of the company's 9500 employees are active in research and innovation to ensure that the latest techniques and scientific advances are fully tested before their inclusion in new equipment.



Dräger Worldwide

The Dräger sales and service organisation is spread throughout the world. It comprises more than 25 subsidiaries and associated companies to ensure that Dräger is always within easy reach of its clients and in close contact with all important markets. Dräger's ever increasing market share demonstrates the company's international competitiveness and strength.

Dräger has subsidiaries in the following countries: Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Czech Republic, Denmark, France, Great Britain, Hungary, Indonesia, Italy, Japan, the Netherlands, Norway, Romania, Singapore, Slovenia, Slovakia, South Africa, Spain, Sweden, Switzerland, Thailand, Yugoslavia, USA. Additionally, Dräger is widely represented in Central and South America, Africa, the Middle East, the Far East and Eastern Europe.

Quality and Environmental Management

Our mission includes the continuous improvement of our Quality and Environmental Management Systems in accordance with ISO 9001 and ISO 14001.