

Dräger PSS® BG 4

Closed-circuit breathing apparatus



ST-1100-2003



ST-584-2003

Dräger PSS BG 4 – back



ST-585-2003

Dräger PSS BG 4 – front

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 containing 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.

Features

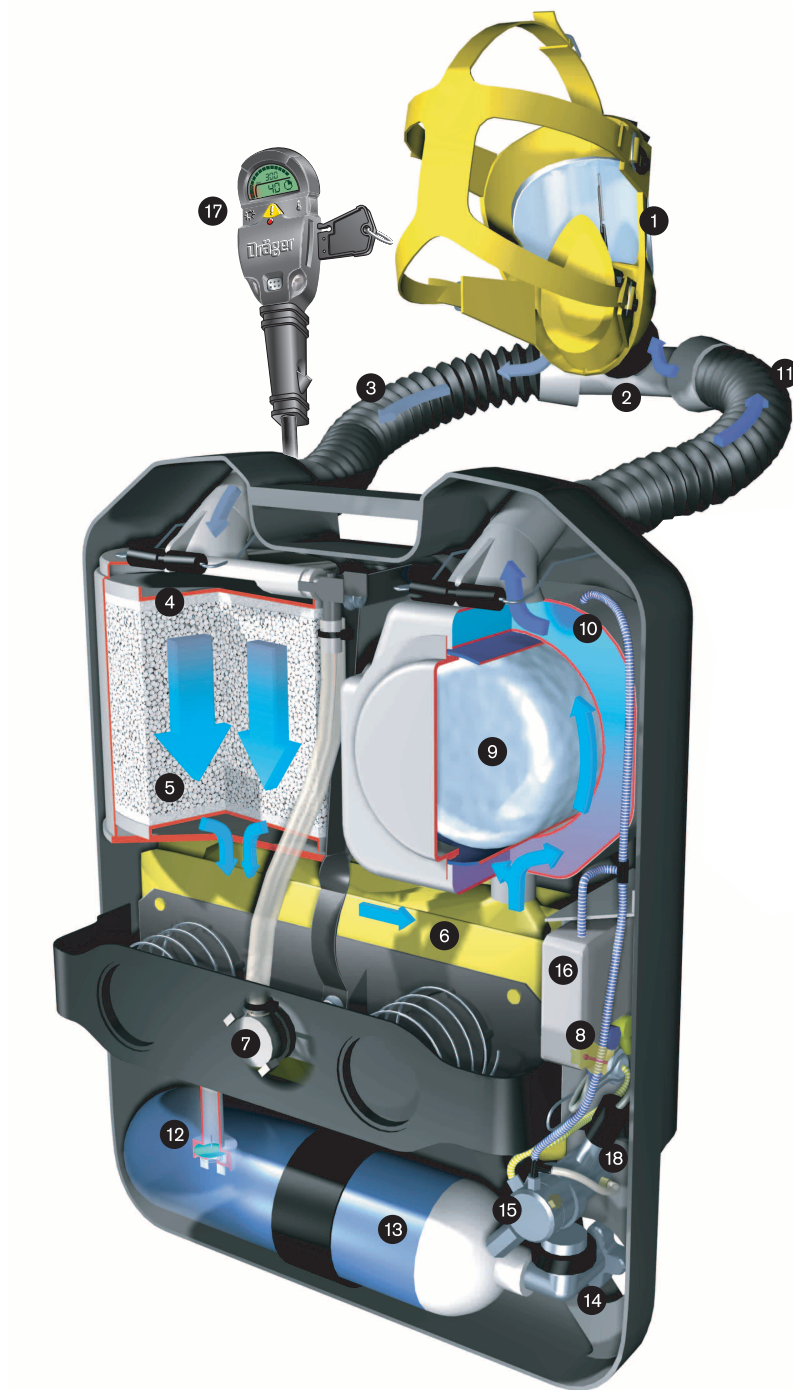
The Dräger PSS® BG 4 offers numerous features for safer use.

- DrägerMan Bodyguard® II

The electronic signal and warning unit delivers and stores vital information thus increasing safety during use. It supplies information quickly and clearly, visually and acoustically, in analog and digital format.

DrägerMan Bodyguard® II can be connected to the Telemetry System "Merlin" for transmitting the vital data.

- Anti-vibration strap
Ensures that your closed-circuit breathing apparatus can be transported safely in motor vehicles.
- Optimum wearing 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, thus reducing the physical burden for the user, the breathing air cooler can additionally be filled with ice.
- CO₂ absorber
The streamlined CO₂ absorber with integrated dust filter is available as a gray disposable absorber or as a translucent 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
 - Innovative opening and closing mechanism



ST-204-2003

Components:

- | | | |
|--|--|---|
| 1 Full face mask | breathing rates the breathing air will be additionally enriched with oxygen via the minimum valve | the breathing cycle and releases it to the outside |
| 2 Connector | | |
| 3 Exhalation hose | | |
| 4 Dust filter – prevents dust from the CO ₂ absorber getting into the breathing cycle | 9 Breathing air cooler – can be filled with ice and reduces the temperature of the regenerated breathing air before inhalation | 13 O ₂ cylinder |
| 5 CO ₂ absorber – absorbs carbon dioxide from the exhaled air | 10 Constant dosage – enriches the breathing air with minimum 1.5 l/min of oxygen | 14 Cylinder valve |
| 6 Breathing bag | 11 Inhalation hose | 15 Pressure reducer |
| 7 Relief valve – releases excess air when the breathing bag is fully filled | 12 Drain valve – gathers the liquid from | 16 Switch box – electronic low pressure warning |
| 8 Minimum valve – in the case of higher | | 17 Bodyguard® II – enables continuous control of the PSS® BG 4 as well as of the wearer |
| | | 18 Sensor – measures continuously the pressure of the oxygen cylinder |



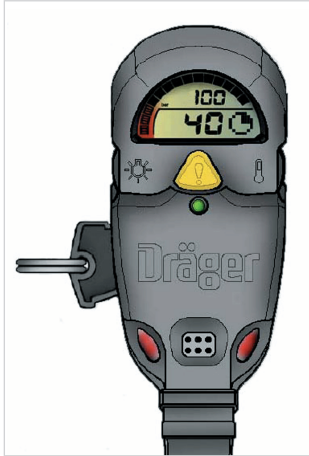
ST-205-206-207-2003

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	595 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 to +40 °C (when stored at ambient temperature)
Approved in accordance with EN 145, intrinsic safety approved in accordance with EN 50020 Eex IIC T4 and Eex ia I	

ORDER DATA

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	
Parts required for operation	Mask	Panorama Nova EPDM PC RP	R53306	
		Panorama Nova Silicone PC RP	R53316	
		Panorama Nova Supra EPDM PC RP	R53670	
	CO ₂ absorber	Disposable cartridge, gray	R34360	
		Refillable cartridge, translucent	R34367	
	Oxygen cylinder	2 L 200 bar, steel, G3/4	B10220	
		2 L 200 bar, fiber-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		



DrägerMan Bodyguard® II

DrägerMan Bodyguard® II

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

DrägerMan PSS® Merlin

DrägerMan PSS® Merlin is a 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 user's momentary situation and can intervene immediately if an emergency arises. Convincing advantages for your safety.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.