

# DrägerMan PSS® 90

Specially designed for today's professional fire-fighter.





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## No Compromise Breathing Apparatus for Professionals

Draeger has led the way in the design of technically advanced respiratory protection equipment for more than a century. Through continuous product improvement and investment in technology, we have developed a range of products which takes compressed air breathing equipment to a new dimension of personal safety.

PSS® 90 is the newest addition to Draeger’s family of Personal Safety Systems. Fitted with Draeger’s high performance advanced ‘Plus’ pneumatics, this self contained breathing apparatus comes with the new PSS® enhanced carrying harness. This means that all of the weight of the apparatus can now be placed comfortably and securely where it should be - on the hips - in line with the body’s centre of gravity.

Utilising hard wearing materials, improved padding, new adjustment technology, and combining Draeger’s famous pull forward waist adjustment, the PSS® 90 ensures that donning and wearing of professional Breathing Apparatus has never been so simple or trouble free.



### Improved Wearer Comfort

The PSS® 90 features an orthopaedically designed backplate moulded from glass-filled polyamide with carbon fibre for resilience and strength. Following the natural contours of the back and attached securely to the fully padded waistbelt assembly, the result is a carrying system which ensures that the weight of the apparatus and cylinders is concentrated on the hips - thereby reducing backstrain, stress and fatigue.

### Rugged Design

Designed to endure the harsh environments within which today’s fire and rescue professionals are expected to perform, every component is manufactured to a high degree of chemical, heat and flame resistance. PSS® 90 is fully designed and tested to comply with the highest flame engulfment standards in the world, including NFPA 1981:1997 and PrEN 137. The anti-static composite backplate, incorporating moulded carrying handles, is flexible and impact resistant without compromising wearing comfort.

The materials used throughout have been carefully chosen to provide the greatest possible chemical and wear resistance, including a high proportion of Kevlar™, Nomex™ and other aramid materials.

### Adaptable

The PSS® 90 will accommodate all common cylinder configurations from a single 4.0 Litre steel to Draeger’s own manufactured twin 9.0 Litre carbon fully wrapped cylinders, with only a minor adjustment to the Nomex™ cylinder band which incorporates a cam lock design locking mechanism.

The PSS® 90 can also be modified to accept Draeger’s dedicated Twinpack arrangement.

Draeger’s PSS® family is founded on a modular approach, which means that a range of options is available to provide the perfect solution to any application.



### Reliable

Utilises the proven ‘Plus’ pneumatic system, requiring minimum maintenance year on year and featuring Draeger’s unique medium pressure driven whistle warning unit, which is integrated into the fully luminescent pressure gauge for snag resistant streamlined handling. Other features include built in compatibility with electronic monitoring options, ChargAir™ port for quick filling and our patented safety pressure relief valve.

### Lung Demand Valve

The Plus Lung Demand Valve carries on Draeger’s tradition of balanced piston designs offering stability, quiet operation and, of course, is first breath activated. A centrally located switch off button and tough wrap around silicone cover are incorporated in a modern streamlined shape for easy handling-even when wearing gloves.

### Flexibility

The PSS® 90 is Draeger’s flexible professional choice which allows the final configuration of pressure and safety monitoring to be a matter of customer choice according to budget. Regardless of the level at which you start there is a cost effective upgrade available for higher sophistication:

Standard Gauge - incorporating mechanical pressure gauge with medium pressure driven whistle

Bodyguard® II - Our most sophisticated solution yet :

- Digital pressure reading
- Illuminated display
- Temperature reading
- Personal alarm (ADSU / PASS)
- Manual panic alarm
- Automatic ‘Time to Whistle’ calculation
- Second LP (EOSTI) warning - flashing LEDs
- LP warning - medium pressure driven whistle
- IR Port for parameter maintenance and datalogging
- Telemetry ready

## PSS 90, an Advanced Compressed Air Breathing Apparatus

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