

## Dräger CPS 7900 Gas-Tight Suit

Tailor-made for use under extreme conditions: The gas-tight Dräger CPS 7900 provides excellent protection against industrial chemicals, biological agents, and other toxic substances. Its innovative material qualifies the CPS 7900 equally well for work in explosive areas and for handling cryogenic substances.

### Anti-fog visor (optional)

- No fogging – without pretreatment
- Large viewing window offers a nearly natural field of view

### RV PT 120 L regulation valve (optional)

- Connection to an external breathing air source
- Adjustable ventilation rate
- Available with automatic switch-over between SCBA and external air source upon request

### Zipper on the side

- Choose between opening from the top or bottom
- Cover flap with press studs or hook-and-loop fastener
- Especially suited to the needs of emergency teams

### Backpack

- Combinable with all known PA cylinder combinations and closed-circuit devices

### Gas-tight safety gloves (attachable to the suit without tools)

- Different glove combinations in different sizes available

### Integrated safety boots

- Easy to replace
- Attached to the suit
- Or gas-tight integrated socks



D-4598-2010

## Benefits

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### Gas-tight suit

- SCBA worn inside the protective suit
  - five suit sizes (S-XXL)
  - side zipper
  - suit material D-mex, reusable
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### Protection in a class of its own

The chemical protective suit Dräger CPS 7900 was developed to protect its wearer when handling toxic or hazardous materials and to provide much needed support for a variety of dangerous tasks. The suit material D-mex™ offers unique resistance to various substances. The Dräger CPS 7900 meets and exceeds the requirements of international standards of fire departments, search and rescue organizations, and industry for reusable protection suits.

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### D-mex™: 5-Fold safety

The suit's innovative and unique material D-mex™ consists of five layers. An especially sturdy elastomer layer as well as a barrier layer resistant to chemicals is on the inside as well as the outside. This allows the suit to retain its full protective capacity even when the material on the outside becomes damaged. Its electrostatic properties make it possible to use the suit in explosive areas. The flexibility of D-mex™ even makes it possible to handle liquefied gases such as ammonia at a contact temperature of -80°C.

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### Outstanding wearing comfort

The chemical protective suit reduces the stress during the already difficult work in hazard zones and danger areas. With its new, ergonomic cut and five available sizes, the suit offers its wearers with a body height of 1.50 m to 2.10 m the highest degree of mobility during a wide variety of activities and tasks. Moreover, the clearly lighter weight and better drape of the suit material adjusts to the wearer's movements and offers the full range of flexibility.

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### Ready at any time

Innovative materials and new service concepts made it possible to significantly reduce time and expenses for regular testing and expenses. In addition, the suit can be easily cleaned and disinfected. This means the time and expense spent over the 15 years of service life of the suit is much less.

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### Never again gasping for a breath

Breathing air is a scarce commodity when it comes to runs involving toxic materials or hazardous atmospheres. The route to the deployment location and the decontamination location must be bridged. The actual tasks must be completed. This is followed by a careful decontamination so that suits can be removed. The amount of air

## Benefits

available in a compressed air breathing apparatus often is insufficient to cover both activities. For this reason the suit can be equipped with optional pass thru's.

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### Intelligent details from head to toe

The design of the visor in combination with the full-face mask Dräger FPS 7000 offers an almost natural field of vision. Three different glove combinations can be attached to the suit quickly and without tools. Optionally, the suit can be equipped with integrated safety boots or gas-tight socks. An integrated radio pocket and a holder for push-to-talk buttons make communication easier.

Further accessories are available to customize the chemical protective suit to meet your specific needs and requirements, thereby expanding your range of application options. Including pressure gauge holder, height adjustment, anti-fog visor and D-Connect.

## System Components



D-0915-2019

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### Dräger PSS® AirBoss

The Dräger PSS® AirBoss offers best in class ergonomics and is one of the lightest weight breathing apparatus for firefighting. Lessons learned from firefighters around the world as well as latest innovations in technology have led us to design an even safer and cleaner SCBA system that enables you to breathe more easily and for longer.

## System Components



D-13077-2010

### Dräger Comfort Vest

Increased performance by up to four hours – without the need for elaborate preparation or logistics: when work gets hot, the Dräger Comfort Vest CVP 5220 is always ready to use as it delivers the cooling action itself. This means: no pre-freezing, no dipping into water, no risk due to dangerous circulating air – and no time loss.



D-0427-2019

### Dräger HPS® SafeGuard

The Dräger HPS® SafeGuard is the extremely lightweight universal helmet for fire and rescue services. Its innovative design combines optimal protection with the highest levels of wearing comfort. Its sporty look, light weight and tailor-made accessories make the helmet a real all-rounder for any challenge.

## Accessories



ST-5692-2004

### Nitrile-P boots

Firefighter's boots with toecaps, provide excellent protection against penetration, cutting and abrasion. Extra comfortable, in sizes 43 to 50.

## Accessories



### Gas-tight socks

Can be worn with the safety boots and, therefore, providing huge flexibility in choosing the right boot.



### Cotton gloves

Optional glove for hygienic wear under chemical protection gloves.



### Tricotril® over gloves

Cut resistance and chemical protection glove all in one, available in sizes 10 and 11.



### K-MEX® Gigant over gloves

Additional cut resistance, available in size 14.

## Accessories



### Laminate + Tricotril combination

Combining mechanical and chemical protection in one – offering high sensitivity, in sizes 10 to 11.



### Dräger Regulation Valve PT 120 L

Pass thru offering cooling effect on the body and additional breathing air from external sources.

## Related Products



### Dräger CPS 5800

The Dräger CPS 5800 is a limited-use chemical protective suit for industrial applications and operations on board that involve a gaseous, liquid or solid hazardous substance.

## Related Products

D-22732-2009



### Dräger CPS 5900

The Dräger CPS 5900 is the ideal limited-use, gas-tight chemical protective suit for hazmat incidents. Where complete protection against hazardous gases, liquids and particles is of the utmost priority, this lightweight garment is the suit of choice.

D-44231-2012



### Dräger CPS 7800

The reusable gas-tight Dräger CPS 7800 provides excellent protection against gaseous, liquid, aerosol and solid hazardous substances even in explosive areas. Due to its innovative material and the new suit design it offers increased flexibility and comfort when entering confined spaces and working with cryogenic substances.

D-18321-2010



### Dräger CPS 7900 olive, beige

Tailor-made for use in CBRN hazard situations: The gas-tight Dräger CPS 7900 provides excellent protection against industrial chemicals, biological agents, and other hazardous substances. Its innovative material qualifies the CPS 7900 equally well for civil emergency and disaster recovery missions as well as decontamination work.

## Technical Data

### APPROVALS

PPE Regulation (EU) 2016/425	Requirements for Personal Protective Equipment
EN 943-1	EU requirements for gas-tight protective suits for industrial applications
EN 943-2 (ET)	EU requirements for gas-tight protective suits for use by firefighters
EN 1073-1	Protection against contamination from radioactive particles
EN ISO 13688	Protective Equipment - general requirements
EN 14126	Protection against contamination from infectious agents
EN 14593-1	Supplied by an air line breathing apparatus with lung demand valve
ISO 16602	International requirements for chemical protective suits
BS 8467	British requirements for CBRN protective suits
SOLAS	Requirements for maritime use
EX-Protection	Suitable for operations in all explosive areas

### CHEMICAL TESTS

Chemical	Breakdown time in min*	Chemical	Breakdown time in min*	Chemical	Breakdown time in min*
Acetone	>480	Ethyl acetate	>480	Sarin (GB)**	>1,440
Acetonitrile	>480	Ethylene oxide	>480	Sodium hydroxide 40%	>480
Ammonia	>480	Hydrogen chloride	>480	Soman (GD)**	>1,440
1,3-Butadiene	>480	Lewisite (L)**	>180	Sulfuric acid 96%	>480
Carbon disulfide	>480	Methanol	>480	Tetrachlorethylene	>480
Chlorine	>480	Methyl chloride	>480	Tetrahydrofuran	>480
Dichloromethane	>480	Mustard gas (HD)**	>1,440	Toluene	>480
Diethylamine	>480	n-Heptane	>480	VX**	>1,440

The continuously updated database VOICE is available to stay informed about chemical resistances and decontamination processes.

\* breakthrough time according to EN 943 Part 2.

\*\* breath through time according to FINABEL 0.7.C

### MECHANICAL TESTS

Test acc. to EN 943:	Class***
Abrasion resistance	6
Flex cracking resistance	6
Flex cracking resistance at -30°C	6
Resistance to tear propagation	3
Bursting resistance	6
Piercing resistance	3

\*\*\* classes acc. to EN 943 Part 2 – from 1 (lowest) to 6 (highest).

## Ordering Information

CPS 7900		Order No.
Colors	Blue or orange	R 29 500
Sizes	Size S: body heights 1.50 m to 1.65 m Size M: body heights 1.60 m to 1.75 m	Basic components
		Basic components

## Ordering Information

	Size L: body heights 1.70 m to 1.85 m Size XL: body heights of 1.80 m to 2.00 m Size XXL: body heights of 1.95 m to 2.10 m	
Zipper	Closes at top or bottom Cover flap with hook-and-loop fastener or snaps	Basic components
Integrated boots or socks	Safety boots: sizes 43 to 50 (German sizing system) Gas-tight socks in 3 sizes: 40 to 50 (German sizing system)	Basic components
Gloves	Fluoroelastomer-Butyl (FKM-IIR) glove: sizes 9 to 11 Laminate + Triotril glove combination: sizes 10 + 11 Laminate + Butyl glove combination: sizes 9 - 11	Basic components
Gloves accessories	Cotton gloves Gas-tight arm cuff Cut-resistant overgloves Tricotril® or K-MEX® Gigant	Accessories
Clear view	Anti-fog visor	Accessories
External air supply	Regulation Valve PT 120 L Air-connect	Accessories
Fastening option	D-connect at right and/or left hip	Accessories
Easier pressure monitoring	Pressure gauge holder	Accessories
Individually adjustable	Height adjustment	Accessories
Storage and transport	CPS Storage and transportation bag Storage box Electronic warehouse management transponder	Accessories Basic component
Customized marking:	In different colors on back, chest, and sleeves	Accessories

Tricotril® is a registered trademark of KCL GmbH

K-MEX® is a registered trademark of KCL GmbH

## Notes

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