

## Dräger Compressed Air Breathing Cylinders Accessories for Breathing Apparatus

Designed using leading technology and advanced materials, you can use our Dräger cylinders in any application where breathing protection is needed. We offer you a broad range, from carbon composite to steel cylinders. You especially benefit from their lightweight and Non-Limited Life (NLL) performance.

### Dräger NANO Cylinder (NLL), Type 4



## Dräger Compressed Air Breathing Cylinders

### Dräger Carbon Composite Cylinder, Type 3



## Benefits

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### Dräger NANO Cylinder (NLL), Type 4

The Dräger NANO, Type 4 full composite cylinder is specifically engineered to minimise the weight you carry during hazardous firefighting operations. Thus, it reduces fatigue and increases your agility. It is currently one of the lightest gas cylinders in the market with a shell weight of 2.8 kg (6.8 l of air/300 bar including impact-resistant caps). Designed with PET liner and carbon nanotube technology, it offers weight reduction by more than 47 % when compared to steel type 1 cylinders. Equipped with a lighter cylinder, you also benefit with a longer duration of air consumption and an increase of air supply if using a twinning option. The combination of lightweight sturdy cylinder material with impact-resistant caps ensures high durability and solid robustness.

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### Dräger Carbon Composite Cylinder, Type 3

Our Carbon Composite Cylinder, Type 3 features a seamless aluminium liner, wrapped with carbon fibers with a fiberglass outer layer gives it a smooth resin finish. This also makes the cylinders lightweight, easy to clean and extremely resistant to shocks, chemicals and abrasion. As a result, you benefit from a weight reduction of 33 % when compared to conventional steel type 1 cylinders. Apart from that, the cylinders are manufactured and tested in accordance with technologically advanced processes.

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### Dräger Steel Cylinder (NLL), Type 1

In addition, Dräger offers a range of steel cylinders to suit low cost applications such as the marine industry, whilst maintaining a continuous high standard of application.

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### Quick and Easy to Clean

Dräger cylinders are suitable for both machine and manual cleaning using a standard cleaning agent. This will significantly reduce your exposure to carcinogens and other toxins after an incident.

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### Customised to Your Design Requirements

When you order Dräger cylinders, we tailor them to meet your specific design requirements: using your own logo, labels, and colours. Personalising your cylinders makes it easier for you to allocate and manage your equipment.

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### Service Life Performance

Depending on the filling cycles and materials, our cylinders feature a 20-, 30- year, and non-limited (NLL) design life. Cylinders with a non-limited life can be used indefinitely when proper maintenance and periodic inspections are fulfilled. It is an investment that not only gives you peace of mind during an incident, but also reduces your cost of ownership in the long run.

## Benefits

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### Always with your safety in mind

We offer an excess flow valve (EFV) to prevent the uncontrolled outflow of gas in case of unintentional opening or damage to the cylinder valve. This feature enables you to activate or deactivate the excess flow without hindering its performance. In addition, approved according to EN 144-2018, the valve offers even greater resistance against forceful impacts while still ensuring full functionality. With Dräger's Quick Connect technology, you can change cylinders quickly without the need for screwing or unscrewing the handwheel manually. It saves you time and ensures a safe connection between the cylinder and breathing apparatus.

## Details



Inline Valve (with Excess Flow Valve), according to EN144-2005



Right-angled Valve (with Excess Flow Valve), according to EN144-2018

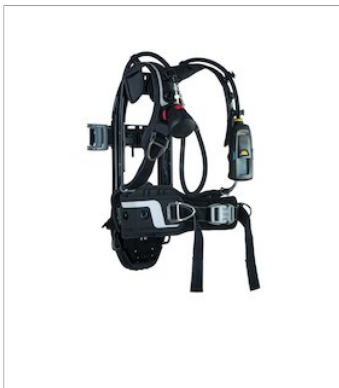


Inline Valve with indicator gauge (with Excess Flow Valve), according to EN144-2018

## Dräger Compressed Air Breathing Cylinders at a Glance

	Type I Dräger Steel Cylinder  6 l/300 bar	Type III Dräger Carbon Composite Cylinder  6.8 l/300 bar	Type IV Dräger NANO Cylinder  6.8 l/300 bar
Application	All firefighting applications	All firefighting applications	All firefighting applications
Usability	1 of 5	4 of 5	5 of 5
Weight	Higher weight due to steel material	33 % lighter than type I cylinder	47 % lighter than type I cylinder
Twinning Option	Not recommended	Good	Very good
Serviceability	5 of 5	4 of 5	5 of 5
Design life	NLL	20 or 30 years	NLL
Cleaning	Approved for different types of machine cleaning	Approved for different types of machine cleaning	Approved for different types of machine cleaning
Safety+	5 of 5	5 of 5	5 of 5
Turnaround on scene	Quick fill and QuickConnect	Quick fill and QuickConnect	Quick fill and QuickConnect
Excess Flow Valve (EFV)	optional	optional	only with EFV

## System Components



D-0915-2019

### 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 to enable you to breathe more easily and for longer.

## System Components



D-38071-2015

### Dräger PSS® 4000

The Dräger PSS® 4000 is one of the lightest professional self-contained breathing apparatus for firefighters. Combining comfort with exceptional pneumatic performance, this SCBA is designed for applications where simplicity and ease of use are crucial. Lightweight yet robust, and easy to don, the PSS® 4000 provides outstanding breathing protection.



D-7469-2010

### Dräger PSS® 3000

The Dräger PSS® 3000 is a high performing breathing apparatus for firefighters. Combining comfort with exceptional pneumatic performance, it is designed for applications where simplicity and ease of use are key essentials. Lightweight yet robust, and easy to don, this advanced breathing apparatus provides dependable breathing protection.

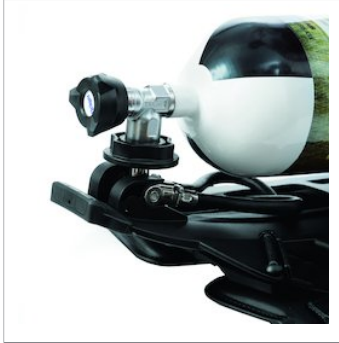


D-39880-2011

### Dräger PAS® Lite

For use in industrial applications where a simple, robust and easy to use breathing apparatus is required, the Dräger PAS® Lite Self-Contained Breathing Apparatus (SCBA) combines reliability with comfort and performance, as well as excellent service life and easy maintenance.

## Accessories



ST-6165-2007

### Quick Connect

A dedicated twin cylinder package with a fixed mounting frame and convenient carrying handle to allow the pack to be carried as a single unit. The low profile of the cylinders allows breathing apparatus to be worn in confined space situations without the need to remove the set.



D-37970-2021

### Twinpack System

Dräger offers a twinpack cylinder system for extended duration operations (EDBA) with cylinder size of 6.8L / 300 bar. This is for use in combination with a specific twinpack backplate.



ST-1275-2008 D-35753-2021

### Cylinder Protection Covers

A selection of flame-retardant cylinder covers is available:

- Dräger Protex, 6.0 and 6.8l (blue colour)
- PVC 6.8, 8.0 and 9.0l (blue, other colours upon application)
- Nomex 6.8, 8.0 and 9.0l (blue, black and red, other colours upon application)

## Technical Data

### Dräger NANO Cylinder, Type 4

Water Capacity (litres)	6.0l	6.8l	9.0l
Service Pressure (bar)	300	300	300
Free Air Capacity (litres)	1620	1836	2430
Working Duration (Minutes) **	41	46	61
Nominal Duration (Minutes) **	32	37	49
Thread	M18 x 1.5	M18 x 1.5	M18 x 1.5
Certification	EN 12245:2009	EN 12245:2009	EN 12245:2009
Service Pressure (bar)	300	300	300
Design Life (years)	Non Limited Life	Non Limited Life	Non Limited Life
Shell weight (kg) (Painted /Natural)	2.8 / 2.6	3.1 / 2.8	3.9 / 3.75
Valved Cylinder weight empty (kg)*	3.31 / 3.11	3.61 / 3.31	4.41 / 4.26
Valved Cylinder weight filled (kg)*	5.29 / 5.09	5.85 / 5.55	7.37 / 7.22

\* Weight includes top and bottom caps

\*\* based on breathing rate of 40l per Minute

### Dräger Carbon Composite Cylinder, Type 3

Water Capacity (litres)	6.0l	6.8l	9.0l	8.0l
Service Pressure (bar)	300	300	300	300
Free Air Capacity (litres)	1620	1836	2430	2160
Working Duration (Minutes)**	41	46	61	54
Nominal Duration (Minutes)**	32	37	49	44
Thread	M18 x 1.5	M18 x 1.5	M18 x 1.5	M18 x 1.5
Certification	EN 12245:2009	EN 12245:2009	EN 12245:2009	EN 12245:2009
Design Life (years)	20	20 / 30	20	30
Shell weight (kg)	3.74	4.33	5.50	5.55
Valved Cylinder weight empty (kg)*	4.25	4.84	6.01	6.06
Valved Cylinder weight filled (kg)*	6.23	7.08	8.97	8.71

\* based on Valve

\*\* based on breathing rate of 40l per Minute

### Dräger Steel Cylinder, Type 1

Water Capacity (litres)	6.0l	6.0l
Service Pressure (bar)	300	200
Free Air Capacity (litres)	1620	1200
Working Duration (Minutes) **	41	30
Nominal Duration (Minutes) **	32	24
Thread	M18 x 1.5	M18 x 1.5
Certification	ISO 9809	ISO 9809
Design Life (years)	Non-Limited Life	Non-Limited Life
Shell weight (kg)	6.00	7.10
Valved Cylinder weight empty (kg)*	6.51	7.61
Valved Cylinder weight filled (kg)*	7.96	9.58

\* Based on Valve V11111 IL EFV

\*\* based on breathing rate of 40l per Minute



## Ordering Information

Dräger Compressed Air Breathing Cylinder	Cylinder Size	Configurator Part Number
Dräger NANO Cylinder, Type 4	6.0l 300 bar	3712915
	6.8l 300 bar	3712916
	9.0l 300 bar	3712917
Dräger Carbon Composite Cylinder, Type 3	6.0l 300 bar	3353732
	6.8l 300 bar	3353733
	8.0l 300 bar	3359190
	9.0l 300 bar	3353734
Dräger Steel Cylinder, Type 1	6.0l 200 bar	3353735
	6.0l 300 bar	3355002
<b>Configurators offer options for:</b>		
Label and IFU language selection	Filled or Empty	
Customised labelling	RFID	
<b>Valves offering options of:</b>		
In-line, right angle / cross flow	With or without excess flow valve	
With or without safety ratchet handwheel	With or without gauge indicator	
EN144:2005 or EN144:2018		
<b>Accessories</b>		<b>Order Number</b>
Cylinder Covers, Dräger Protex, PVC and Nomex		on request

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