

ORDER INFORMATION

Cylinders (Notified Body Lloyds Register)

200 bar steel cylinder

6.0L / 200 bar Steel, in line valve (V11130)	3354635
6.0L / 200 bar Steel, in line ratchet valve (3353876)	3354638

300 bar steel cylinder

6.0L / 300 bar Steel, in line valve (V11110)	3354636
6.0L / 300 bar Steel, in line ratchet valve (3353875)	3354639
9.0L / 200 bar Steel, in line valve (V11130)	3354637
9.0L / 200 bar Steel, in line ratchet valve (3353876)	3354640

300 bar Carbon Composite

6.8L / 300 bar Carbon Composite in line valve (V11110)	3352653
6.8L / 300 bar Carbon Composite in line ratchet valve (3353875)	3354626
6.8L / 300 bar Carbon Composite right angled valve (3353871)	3354629
6.8L / 300 bar Carbon Composite right angled ratchet valve (3353872)	3354632
9.0L / 300 bar Carbon Composite in line valve (V11110)	3352652
9.0L / 300 bar Carbon Composite in line ratchet valve (3353875)	3354627
9.0L / 300 bar Carbon Composite right angled valve (3353871)	3354630
9.0L / 300 bar Carbon Composite right angled ratchet valve (3353872)	3354633

200 bar Carbon Composite

9.0L / 200 bar Carbon Composite in line valve (V11110)	3354501
9.0L / 200 bar Carbon Composite in line ratchet valve (3353876)	3354628
9.0L / 200 bar Carbon Composite right angled valve (3353873)	3354631
9.0L / 200 bar Carbon Composite right angled ratchet valve (3353874)	3354634

Compressed Air Cylinders



Designed using leading technology and advanced materials, Draeger's range of Composite Cylinders can be used in any application where breathing becomes difficult or impossible.

Through continuous product improvement and investment in technology, Draeger provides the highest quality pneumatics, carrying systems and high performance, ultra lightweight, carbon composite cylinders. Because Draeger manufacture all elements of the breathing apparatus system – masks, carrying systems, pneumatics and cylinders – you can be assured of the highest quality and maximum performance.

Draeger cylinders are manufactured and tested using automated, computer controlled processes. Continuous re-investment in plant and equipment ensures that Draeger cylinders are manufactured and tested in accordance with the most technologically advanced processes available. Automatic data collection ensures full traceability of materials used and the effective monitoring of critical process parameters.

These ranges of cylinders are manufactured from a seamless aluminium liner, which is subsequently over wrapped with carbon and glass fibres. The aluminium liner is cold drawn from AA 6061 aluminium plate and then wrapped with carbon fibre in an epoxy matrix, using a computer controlled 4 axis wrapping machine.

An external layer of glass fibre in an epoxy matrix is then wrapped onto the cylinder. This external layer of glass fibre is applied to enhance the resistance of the cylinder to impact and abrasion in service.

Following a high temperature curing of the epoxy matrix, an external gel coat is applied to the surface of the cylinder. This coating provides a smooth, easily cleaned surface for the cylinder

Every batch of 200 cylinders is subjected to exhaustive testing in accordance with the legislative design and manufacturing codes (EN 12245 and 97/23/EC), under the supervision of a Notified Body. All relevant production data is retained electronically for the full working life of the cylinder.



Valved carbon composite cylinder

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High performance light weight compressed air cylinder



TECHNICAL DATA

Composite Cylinders				
Water Capacity (litres)	6.0	6.8	9.0	4.7
Free Air Capacity (litres)	1636	1854	2454	1274
Working Duration (minutes)	41	46	60	32
Nominal Duration (Minutes)	31	36	50	22
Service Pressure (bar)	300	300	300	300
Weight (Kg)	3.70	4.09	5.30	3.40
Diameter (mm)	152.5 / 154.0	152.5 / 154.0	175.5 / 177.0	137
Length (mm)	492 / 495	546 / 549	549.5 / 552.5	490
Design Life (years)	20	20	20	15
Thread	M18 x 1.5	M18 x 1.5	M18 x 1.5	M18 x 1.5
Certification	EN12245:2002	EN12245:2002	EN12245:2002	EN12245:2002

Extended range

Draeger offers a further selection of cylinders ranging from the 2l short duration to 4.7l cylinders with the same choice of valves offered for Draeger manufactured cylinders, with final assembly PED approved.

The cylinder Twin Pack is a dedicated twin cylinder package designed to be used with Draeger's professional range of Compressed Air Breathing Apparatus.

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

All Draeger valved cylinder assemblies are fully approved to pressure equipment directive and PED approved to BS EN 1964-1:1999

Cylinder valves

A wide range of cylinder valves for use with breathing apparatus produced by Draeger are available for use with Draeger cylinders and are approved to EN144-1 and EN144-2.

The Excess flow valve, available as an option, prevents uncontrolled flow on accidental opening, components within the valve allow the excess flow feature to be enabled or disabled by the user as it is not detrimental to the performance when not activated.

Operation is simple with single valve activation and ratchet to prevent inadvertent valve closure, in accordance with EN 137.

Quality Standards & Approvals

Draeger's commitment to design and manufacturing excellence is further underlined by our BS EN ISO 9001:2000 quality system approval. The cylinders themselves have been given approval to EN12245:2002, module combination B+D, as well as a wide range of national approvals around the world.

All European variants are CE marked in accordance with the requirements of the Pressure Equipment Directive 97/23 EC and EN 12254:2002.

ORDER INFORMATION

Accessories

Cylinder Covers

Cylinder Cover 6.0L / 200 bar Steel	3331041
Cylinder Cover 9.0L / 200 bar Steel	3331248
Cylinder Cover PVC (zipped), 6.8L / 300 bar Composite	3310619
Cylinder Cover PVC (zipped), 9.0L / 200 bar Composite	3310620
Cylinder Cover PVC (zipped), 9.0L / 300 bar Composite	3310621
Cylinder Cover Nomex 6.8L / 300 bar Composite	3310622
Cylinder Cover Nomex 9.0L / 200 bar Composite	3310623
Cylinder Cover Nomex 9.0L / 300 bar Composite	3310624

Connection Pieces for Cylinders

Connection piece, 300 bar	3337660
Connection piece, 200 bar	3339615

Charging Connector

Direct Charging Connector, 300 bar	3337702
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Charging Hoses

Direct Charging Hose 1.5m (without gauge)	3336645
Direct Charging Hose 1.5m (with gauge)	3336641
Direct Charging Hose 3m (with gauge)	3336642

Upgrade Kits

Excess Flow Valve (EFV) Upgrade Kit (1 x grey handwheel, 1 x nut, 1 x EFV)	V11134
Excess Flow Valve	V11011

ACCESSORIES

 <p>ST-3966-2005</p>	<p>200 bar in-line valve With flame retardant hand reel.</p>	 <p>ST-3966-2005</p>	<p>300 bar in-line valve with integrated gauge With flame retardant hand reel.</p>	 <p>ST-3965-2005</p>	<p>Right-angle valve With flame retardant hand reel.</p>
 <p>ST-3970-2005</p>	<p>Excess flow valve</p>				