



BECAUSE EVERY MISSION
IS A NEW CHALLENGE.
DRÄGER SAFETY DIVING SYSTEMS.

DETECTION
PERSONAL PROTECTION
DIVING TECHNOLOGY
SYSTEM TECHNOLOGY
SERVICES

Drägersafety

In diving, it's not just your partner you need to depend upon.
Dräger PSS® Dive – flexible solutions for safe, professional diving.

THE REQUIREMENTS THAT PROFESSIONAL DIVERS MUST MEET ARE MULTIFACETED AND REQUIRE ALL SYSTEM COMPONENTS TO HAVE A HIGH DEGREE OF FLEXIBILITY. ALL OVER THE WORLD, FIRE SERVICES, COASTGUARDS, NAVY AND SPECIAL UNITS, AS WELL AS COMMERCIAL USERS TRUST DRÄGER SAFETY DIVING TECHNOLOGY.

As far back as 100 years ago, Dräger set the standard with innovative diving equipment. The focus was always on safe, responsible diving. Our goal: optimal safety coupled with maximum latitude for divers, allowing them to concentrate fully on their tasks.

For the multitude of tasks that divers encounter in the widest variety of working environments, we have developed an equipment concept that is oriented toward individual needs and permits configurations. Because every mission is different.

Dräger PSS® Dive now establishes the proven Personal Security System (PSS) under water. This system approach ensures coordination of all components, so that almost any task can be completed safely.

In addition to simple operation and safety, Dräger PSS® Dive also gives you equipment technology that requires minimum maintenance and is ready to use quickly and simply.



The mask

See, breathe, speak. The Panorama Nova Dive, the perfect basis of the Dräger PSS® Dive system. The Panorama Nova Dive diving mask is the diver's window to their working environment and the outside world.

Three patented mask connections ensure optimal safety and functionality. The central connection is for the main regulator. Two side connections are provided for breathing and for the microphone of a voice unit.

The visor

On a dive, visibility is rarely ideal – meaning any visibility the diver has should be utilised. The mask has a flat, visor with an extraordinary, panoramic field of view. Its shape reduces mask volume and thus buoyancy.

In addition, the visor has two levers for the nose clips to equalise pressure along with a quick connector for the low-pressure warning unit.

The outer mask

In conjunction with the new 5-point head harness, the outer mask provides an seal. The unique quick release makes it possible to remove the mask in a second. An additionally integrated blow-off valve makes it easy to expel any water that might happen to penetrate.

Communication

Combined with audio and voice of the UT402 diver's telephone, the Panorama Nova Dive provides clear communication between diver and signalman. The small, light surface unit is worn on the belt, leaving the hands free for other tasks. The communications cable serves simultaneously as the safety line.



ST-2264-2003

Dräger PSS® Dive – vfdb

THE PSS® DIVE IS PROFESSIONAL DIVING APPARATUS IN AN EQUIPMENT CONFIGURATION THAT ALLOWS THE DIVER TO OPERATE THE CYLINDER VALVES EASILY EVEN WHILE DIVING. EITHER ONE OR TWO CYLINDERS CAN BE MOUNTED ON THE BACKPACK, WITH THE CYLINDER VALVES POINTING DOWNWARD. THIS ALLOWS FOR EASY OPERATION OF THE VALVES. THE CYLINDER VALVES ARE PROTECTED AGAINST DAMAGE BY A STURDY PROTECTIVE BAR. IN THIS CONFIGURATION, THE APPARATUS CONFORMS TO VFDB DESIGN GUIDELINES.

Optimal position – buoyancy compensator (BC)

The buoyancy compensator (BC) jacket is cut in wing style. Thanks to its three-dimensional tailoring, it fits directly against the body and – even when fully inflated – does not extend beyond the dimensions of the body.

It has a maximum buoyancy of 210 N. As an option, it can be equipped with a 0.5-litre, 200-bar emergency ascent cylinder and is approved as a combined BC and rescue device. The dual-shell, BC bladder with a 1,000-denier Cordura external shell has three quick-release valves and an inflator hose with integrated medium-pressure hose.

Breathe safely and comfortably underwater – pneumatics

The powerful regulator designed for 200 and 300 bar consists of a Shark first stage with balanced piston, high-pressure 5/8" connector, and a medium-pressure intensifier.

In combination with the Shark second stage, the mask is safe, simple, and fast. Important for your safety is the combination of the mask with the Dräger PSS® Dive low-pressure warning system. By means of a moveable piston, you can see, hear, and even feel the low-pressure warning.

Premium diving mask – The Panorama Nova Dive

The Dräger PSS® Dive equipment configuration is rounded out perfectly by the Panorama Nova Dive full-face mask. It, too, offers many innovative features, such as easy breathing of ambient air when the second stage is not inserted. This leads to optimum flexibility and safety.

Your rescuer in an emergency – the rescue vest

The Dräger PSS® Dive can also be equipped with an optional rescue vest that has been tested offshore and provides a buoyancy of 275 N. It has a manually operated CO₂ cartridge.

Flexible ergonomics – the backpack system

The ergonomically designed and padded backpack guarantees an optimal fit with its comfortable shoulder, hip, chest, and groin straps. The pull-forward system makes it easier for the diver to put on the equipment. The backpack system also includes lead weight bags, which increase safety without impairing wearing comfort.

The Dräger PSS® Dive can be used for diving with one or two cylinders. You can choose from a broad range of 6, 7, and 10-litre cylinders, with 200 or 300 bar, in mono or duo design, along with the cylinder mounts. The cylinders are fastened by two tension belts with a special quick connector.



COMPONENTS NEEDED FOR OPERATION

ST-2671-2004



Panorama Nova Dive

Full-face diving mask with non-fogging visor, 3 external connectors, nose clips for pressure equalisation, and head harness with quick-release levers.
T 53510

ST-1606-2003



Backpack system

Padded backpack system with shoulder, hip, and groin belts, lead weight system, and D-rings.
T 54032 (m), T 54033 (l)

ST-2722-2004



Pneumatics

Pneumatics for safe and comfortable breathing underwater.
T 54085

ST-2712-2004



BC bladder

For connection to the PSS® Dive backpack system with a buoyancy of 210 N.
T 54036

ST-2716-2004



PSS® Dive valve guard

For protection of the valves.
T 54090

VFDB ACCESSORIES

ST-2665-2004



Rescue collar

With manually operated CO₂ cartridge, buoyancy of 275 N.
T 54044

ST-2665-2004



Emergency cylinder connector

For connection of the 0.5-litre/200-bar cylinder.
T 54060

Dräger PSS[®] Dive – EN

THE PSS[®] DIVE IS PROFESSIONAL DIVING APPARATUS WHICH IS CONFIGURED SO THAT THE DIVING CYLINDERS CAN BE MOUNTED WITH THE VALVES POINTING UPWARDS. AS A RESULT, THE APPARATUS CAN REST SECURELY ON THE BASE OF THE CYLINDERS. ONE OR TWO DIVING CYLINDERS CAN BE MOUNTED ON THE BACKPACK SYSTEM. IN THIS CONFIGURATION, THE APPARATUS CONFORMS TO THE EN 250.

Breathe safely and comfortably underwater – pneumatics

The powerful regulator designed for 200 and 300 bar consists of a Shark first stage with balanced piston, high-pressure 5/8" connector, and a medium-pressure intensifier.

In combination with the Shark second stage, the mask is safe, simple, and fast. Important for your safety is the combination of the mask with the Dräger PSS[®] Dive low-pressure warning system. By means of a moveable piston, you can see, hear, and even feel the low-pressure warning.

Optimal position – buoyancy compensator (BC)

The buoyancy compensator (BC) jacket is cut in wing style. Thanks to its three-dimensional tailoring, it fits directly against the body and – even when fully inflated – does not extend beyond the dimensions of the body.

It has a maximum buoyancy of 210 N. As an option, it can be equipped with a 0.5-litre, 200-bar emergency ascent cylinder and is approved as a combined BC and rescue device. The dual-shell, BC bladder with a 1,000-denier Cordura external shell has three quick-release valves and an inflator hose with integrated medium-pressure hose.



Premium diving mask – The Panorama Nova Dive

The Dräger PSS[®] Dive equipment configuration is rounded out perfectly by the Panorama Nova Dive full-face mask. It, too, offers many innovative features, such as easy breathing of ambient air when the second stage is not inserted. This leads to optimum flexibility and safety.

Your rescuer in an emergency – the rescue vest

The Dräger PSS[®] Dive can also be equipped with an optional rescue vest that has been tested offshore and provides a buoyancy of 275 N. It has a manually operated CO₂ cartridge.

Flexible ergonomics – the backpack system

The ergonomically designed and padded backpack guarantees an optimal fit with its comfortable shoulder, hip, chest, and groin straps. The pull-forward system makes it easier for the diver to put on the equipment. The backpack system also includes lead weight bags, which increase safety without impairing wearing comfort.

The Dräger PSS[®] Dive can be used for diving with one or two cylinders. You can choose from a broad range of 6, 7, and 10-litre cylinders, with 200 or 300 bar, in mono or duo design, along with the cylinder mounts. The cylinders are fastened by two tension belts with a special quick connector.

VFDB ACCESSORIES

ST-2730-2004



Twin set

Belts with centre piece for connection of cylinder packs in various sizes.
T 51227 6/7 litres; **T 51228** 10 litres; **T 51229** 12 litres.

ST-2725-2004



Emergency cylinder

0.5 litre/200 bar with angled valve.
T 54062

ST-2710-2004



Compressed air cylinders

Available as 6-litre as well as 7 and 10-litre cylinders.

B 10 612, 6 litre/300 bar, mono

T 51 213, 7 litre/200 bar, mono

T 51 293, 7 litre/200 bar, duo

T 51 262, 10 litre/200 bar, mono

T 51 261, 10 litre/200 bar, duo

ST-2697-2004



Two-stage regulator

Complete breathing regulator consisting of a first and second stage for safe breathing.

COMPONENTS NEEDED FOR OPERATION (EN)

ST-1506-2003



Backpack system

Padded backpack system with shoulder, hip, and groin belts; lead weight system, and D-rings.

T 54136 (m)

T 54137 (l)

EN ACCESSORIES

ST-2689-2004



Rescue collar

Rescue system for use with unconscious divers provides exceptional buoyancy (275 N).

T 54 044

ST-2685-2004



Emergency cylinder connector

For connection of the 0.5-litre/200-bar cylinder.

T 54060

ST-2722-2004



Pneumatics

You can configure the PSS® Dive EN high-performance pneumatic system yourself. You can choose a DIN or INT high-pressure connection and select a second stage either with a mouthpiece or a connector for a full-face mask. Available accessories include an octopus, a contents gauge, a depth gauge, and a compass.

T 54280



ST-2712-2004

BC bladder

For connection to the PSS® Dive backpack system with a buoyancy of 210 N.
T 54036



ST-2725-2004

Emergency cylinder

0.5-litre/200-bar with angled valve.
T 54062



ST-2710-2004

Compressed air cylinder

Available as 6-litre as well as 7 and 10-litre cylinders.
B 10 612, 6 litre/300 bar, mono
T 51 213, 7 litre/200 bar, mono
T 51 293, 7 litre/200 bar, duo
T 51 262, 10 litre/200 bar, mono
T 51 261, 10 litre/200 bar, duo

GENERAL ACCESSORIES FOR COMPRESSED AIR DIVING APPARATUS



ST-2880-2004

Snorkel

Black with a silicone mouthpiece.
T 53308



ST-2731-2004

Diving half mask

2-pane black silicone diving half mask.
T 53307



ST-2696-2004

Medium-pressure swivel

For connecting the pressure reducer to medium-pressure hoses that are not carrying breathing air.
T 54103



ST-2697-2004

Shark

Shark first and second stage with mouthpiece.
T 51031



ST-2698-2004

Shark second stage

80 cm hose with mouthpiece.
T 51086



ST-2695-2004

Contents gauge and depth gauge

Contents gauge (0–400 bar) and depth gauge (0–80 m) in a dual console with an 80 cm hose.
T 53703






ST-2676-2004

Inflator hoses

For inflating the buoyancy compensator. 2 lengths.
T 54042
T 54186

GENERAL ACCESSORIES FOR COMPRESSED AIR DIVING APPARATUS

ST-2694-2004		Cylinder securing strap	Prevents the compressed air cylinder from slipping. T 54144
ST-2692-2004		Non-slip rubber	Belts with a centre piece for connecting cylinder packs in various sizes. T 51227 6/7 litres; T 51228 10 litres; T 51229 12 litres.
ST-2699-2004		Octopus	Breathing apparatus with 100 cm hose, yellow deflector, and bite-type mouthpiece. T 51035
ST-2700-2004		Shark second stage – FFM	With plug-in connector, 90 cm hose for connection to the Panorama Nova Dive. T 54205
ST-2701-2004		Flow control valve	For manual cut-off of air supply to the second stage.
ST-2704-2004		Contents gauge (0–400 bar)	With 80 cm or 120 cm hose. T 53701 (80 cm) T 53625 (120 cm)
ST-2707-2004		Shark pressure reducer	With DIN connector, 2 HD outlets, 4 MP outlets, balanced and suitable for cold water in accordance with EN 250. T 51050
ST-2717-2004		Underwater telephone UT 402	Complete pack for 2 persons with combined signalling and communications line (50 or 80 m), diver unit and carrying case.



Don't leave your safety to chance. Place your trust in the products and solutions from Dräger Safety.

This brochure presents just a small excerpt from our full range of products and solutions for your area of application. You can find a complete overview at the Dräger Safety website www.draeger-safety.com. We would be happy to send you tailored and detailed information material. Please contact us – we look forward to your questions and suggestions.

Trust is good – certification is better.

The standards and the demands that Dräger Safety places on quality, reliability, and safety are substantially higher than required by law. Nevertheless, we insist and shall continue to demand that our products be tested and certified according to the most stringent standards.

We owe this not only to our customers, who often trust their lives to our technology, but also to our own tradition: always going that bit further; being that bit better; never being satisfied with just “good”. That may be one of the reasons why the products of Dräger Safety are among the best available in the world today. We're happy to give you that in writing:

The Dräger PSS® Dive

This system has been certified by the entity duly authorised by the Commission of the European Community under ID number 0098.

The test was based on vfdb guideline 0803:2001, DIN EN 250:2000, and DIN EN 1809:1998.



SUBSIDIARIES

AUSTRALIA

Draeger Safety Pacific Pty. Ltd.
Axxess Corporate Park
Unit 99, 45 Gilby Road
Mt. Waverley, Vic 3149
Tel +61 3 92 65 50 00
Fax +61 3 92 65 50 95

CANADA

Draeger Canada Ltd.
7555 Danbro Crescent
Mississauga, Ontario L5N 6P9
Tel +1 905 821 8988
Fax +1 905 821 2565

P. R. CHINA

Beijing Fortune Draeger
Safety Equipment Co., Ltd.
Yu An Lu A 22, B Area
Beijing Tianzhu Airport
Industrial Zone
Houshayu Shunyi District
Beijing 101300
Tel +86 10 80 49 80 00
Fax +86 10 80 49 80 05

FRANCE

Draeger Industrie S.A.S.
3c, Route de la Fédération
67025 Strasbourg Cedex
Tel +33 388 40 76 76
Fax +33 388 40 76 67

MEXICO

Draeger Safety S.A. de C.V.
Av. Peñuelas No. 5
Bodega No. 37
Fraccionamiento Industrial
San Pedrito
Querétaro, Qro México
Tel +52 442 246 1113
Fax +52 442 246 1114

NETHERLANDS

Dräger Safety Nederland B.V.
Edisonstraat 53
2700 AH Zoetermeer
Tel +31 79 344 46 66
Fax +31 79 344 47 90

SINGAPORE

Draeger Safety Asia Pte. Ltd.
67 Ayer Rajah Crescent # 06 03
139950 Singapore
Tel +65 68 72 92 88
Fax +65 67 73 20 33

REP. OF SOUTH AFRICA

Dräger South Africa (Pty) Ltd.
P.O.Box 68601
Bryanston 2021
Tel +27 11 465 99 59
Fax +27 11 465 69 53

SPAIN

Draeger Safety Hispania S.A.
Calle Xaudaró 5
28034 Madrid
Tel +34 91 728 34 00
Fax +34 91 729 48 99

UNITED KINGDOM

Draeger Safety UK Ltd.
Ullswater Close
Kitty Brewster Industrial Estate
Blyth, Northumberland NE24 4RG
Tel +44 1670 352 891
Fax +44 1670 356 266

USA

Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Dräger Safety AG & Co. KGaA
Revalstrasse 1
23560 Luebeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
www.draeger-safety.com