



TECLINE

**TECHNICAL  
DIVING** EQUIPMENT  
CATALOGUE

# TECLINE

## TECHNICAL DIVING EQUIPMENT



Scubatech Co. Ltd. was established in 2002 by experienced instructors, Trimix and rebreather divers. Our company manufactures the whole range of high quality regulators dedicated for diving in difficult weather conditions which prevail in northern part of Europe.

Our regulators have been successfully used for almost 13 years by professional divers, marines, the fire department and recreational divers. Answering the needs of the developing technical market, we created a new line of equipment called TECLINE. This line consists of wings, harness-

es, regulators, SPGs, valves, thermal undergarment, lights & others. This equipment is dedicated to both divers who have just began their adventure with recreational diving and the most demanding technical divers who explore undiscovered places. Each piece of equipment which we want to introduce on the market is previously carefully tested by our team. All of the products fulfill the high requirements of European norms and they are CE certified.

Our perfection has been also appreciated by many famous brands of diving equipment and we are also proud to

be distributor of them: Sitech, Ocean Reef, Pinacclle, DUI, Faber, Eurocylinder, Luxfer, McNett, Innobeam, Saekodive.

For more information about the products, please visit:

[www.tecline.com.pl](http://www.tecline.com.pl)

or don't hesitate to contact us directly at:  
[scubatech@scubatech.pl](mailto:scubatech@scubatech.pl)



Tomasz  
Stopyra  
President



## THE PERFECT CONFIGURATION FROM POLAND



photo by Sebastian Rosiak



photo by oganowski.com



photo by Petr Vaverka

02 REGULATORS



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# - WHEREVER YOU DIVE -

## THE PERFECT CONFIGURATION DIR SET **V2**

### DONUTS **SPECIAL EDITION** SERIES + DIR SET **V2 ICE** REGULATORS



„V“ SHAPE ALLOWS FOR KEEPING HEAD IN HIGH POSITION, WHICH MAKES TRIM AND SAFETY MUCH BETTER.

VERTICAL PORTS' SETTING RESULTS IN PERFECT HOSES ARRANGEMENT.

UNIQUE CONSTRUCTION OF REGULATORS ALLOWS FOR EASY VALVE ACCESS.

**CE1463**  
**EN250**

### DIR SET **V2**

- 2 x first stage left & right
- 2 x second stages
- LP hose PROFLEX 2,00m
- LP hose PROFLEX 0,61m
- HP hose PROFLEX 0,61m
- SPG 52mm TECLINE
- 1 x SS swivel bolt snap 76mm
- 1 x SS swivel bolt snap 88mm
- 0,75 M bungee necklace
- Silicone necklace
- Regulator bag



Joining the wings from Special Edition series (D17SE, D22SE, D30SE) with V2 ICE regulators is the ideal solution for the "tech" instructors' teaching, apart from the other skills, the proper trim and valves' maneuvering. This means quicker way for mastering these techniques for the students and the warranty of incredible comfort while diving with the doubles for the technical divers. The regulators are covered by a 10-year warranty for the first owner.

V2 ICE first stage cooperates with most of the second stages of other brands without the loss of warranty, so if you have your favorite 2nd stage, you can simply use it with V2 ICE. The tools needed for servicing do not differ from those used for the servicing of other popular regulators. Spare parts needed for servicing in the field are the same as in the most of the available 1st stages – V2 doesn't have in this respect any surprising solutions... maybe apart from one – this is V2 ICE – the only such regulator.

**10 YEARS** WARRANTY FOR THE FIRST OWNER



**CE1463  
EN250**

## V2 FIRST STAGE REGULATOR **L&R**

- Diaphragm
- Additional dry chamber: COLD KIT
- Balanced
- 2 LP ports / 1 HP ports
- Maximum operational pressure: 300 bar
- Maximum flow by 20 MPa pressure: 3823 l/min
- Intermediate pressure: 8,5 bar
- Material: maritime bronze
- Weight: 790g
- Can be used with Nitrox up to 40%



**3D  
OF I STAGE**

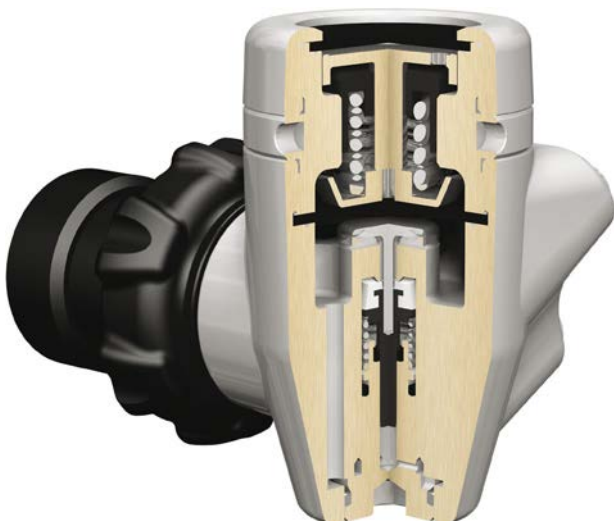


## V2 SECOND STAGE REGULATOR

- Balanced
- Regulation of breathing underpressure
- Regulation of breathing resistance
- Breathing resistance : 0,983 – 1,004 J/l
- Maximum flow by 20MPa pressure: 850l/m
- Can be used with Nitrox up to 40%
- Material: polyamide
- Weight: 210g



**3D  
OF II STAGE**



**10 YEARS** WARRANTY FOR THE FIRST OWNER

# REGULATORS V2 ICE MONO

## V2 ICE MONO

A new regulator by Tecline, V2 ICE MONO, can be used by both beginner and experienced divers, who like safe diving with single tank in cold water.

We invite all those, who conduct classes for future technical divers, to carefully get acquainted with Semi Tec configuration, which allows for combining V2 ICE MONO with a single tank in a way which reflects the twin configuration.

### ESSENTIAL FEATURES:

- intuitive work with the regulator by beginners
- safe layout of hoses without loops standing out from the diver
- easy change of configuration from recreational to technical DIR
- comfortable knob allowing for easy installation of the regulator on valve
- safe arrangement of the 2nd stage of regulator ("always in front of the diver")

## THE SET V2 ICE MONO SEMI TEC 1 FOR TANKS WITH A SINGLE VALVE



- 1 x first stage V 2 ICE MONO, diaphragm with Cold Kit,
- 4 x LP ports
- 2 x HP ports
- 2 x second stage V2, balanced with Venturi regulation and breathing resistance regulation
- 1 x hose LP 61 cm
- 1 x hose LP 193 cm
- 1 x hose HP 61 cm
- 1 x manometer Tecline 300 bar
- 2 x SS swivel bolt snap
- 1 x bungee for hanging the second stage
- 1 x Tecline regulator's bag

## CE1463 EN250



- configuration "Semi Tec 2" (2 regulators V2 ICE MONO+ "T" valve) sets the hoses in an exactly the same way as in the twin set, making diving under ice even safer
- a large heat exchanger allowing for safe diving in low temperatures.

## THE SET V2 ICE MONO SEMI TEC 2 FOR SINGLE TANK WITH DOUBLE VALVE



- 2 x first stage V 2 ICE MONO, diaphragm with Cold Kit,
- 4 x LP ports
- 2 x HP ports
- 2 x second stage V2, balanced with Venturi regulation and breathing resistance regulation
- 1 x hose LP 61 cm
- 1 x hose LP 193 cm
- 1 x hose HP 61 cm
- 1 x manometer Tecline 300 bar
- 2 x SS swivel bolt snap
- 1 x necklace
- 1 x Tecline regulator's bag

For sets of double tanks we recommend the regulator V2 ICE in DIR-sets with dedicated left and right first stage .

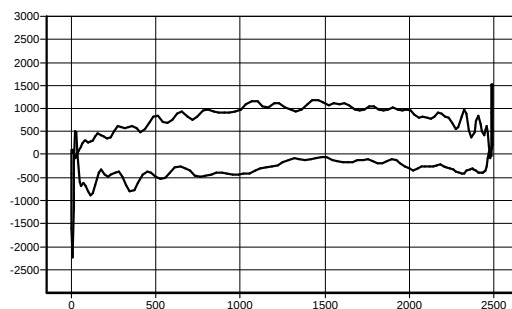
10 YEARS WARRANTY FOR THE FIRST OWNER

# REGULATORS V2 ICE IN PRACTICE



A demand regulator V2 is a scuba regulator, which supplies air only when the diver inhales it (or “demands” it). It consists of 2 stages (first stage of pressure reduction and second stage of pressure reduction), and intermediate hose dividing the stages of pressure reduction. The trusted and newest solutions in regulators’ design were implemented while creating this device. The leading companies producing diving equipment also use these solutions and they contribute to excellent parameters of V2. While describing this regulator we can use technical terms like: dry chamber, downstream setup of pressure reduction, reduced pressure 0,95 MPa, twisted connections of hoses, high quality low pressure hose with operational pressure 1,7MPa, adjustable inhalation knob, deflector properly directing the flow of breathing gas in connection with Venturi vane.

A graphic account of breathing parameters lets us read out the values of breathing resistance as well as the value of total performance. The norm specifies maximum underpressure of inhalation and overpressure of exhalation as follows: +2500Pa,-2500Pa and the total performance on the level of 3,0J/l. On the basis of presented chart and average values of all of the several inspections, which the regulators underwent, it was established that the values lie within the norms and they still have a big margin. Average values, which characterize this regulator, are: 1,35J/l for breathing performance and +1500Pa and -1000Pa for underpressure of inhalation and overpressure of exhalation respectively. The effort put into breathing is similar to the work that necessitates other regulators currently available on the market.



In many cases V2 is competitive in comparison with them. Additional benefit is the ergonomic design and the configuration of fixed AO components such as: standard (5/8”) two intermediate pressure ports as well as standard one high-pressure port (7/16”). The advantage of using standard solutions in case of pressure joints is that the user does not have to bear the cost of additional reductions for configuring the regulator with other elements of diving equipment. Compatibility of this regulator is a very practical feature.

Equipping the first stage of the regulator with the so-called dry chamber (use of isolating membrane) proved to be beneficial during the test of the regulator in cold water (so water which temperature is lower than 10°C). Taking into consideration the geographical position of Poland as well as the thermal conditions in our lakes and the Baltic Sea, the increased resistance to freezing is a big advantage of a regulator. V2 is not prone to freezing in cold water during hard work (consumption of air more than 62l/min). In case of V2, laboratory and functional tests conducted in Laboratory of Polish Marine Academy in Gdynia on commission of the Polish Register of Shipping confirm that the regulator is safe for use. The result of this test as far as the values of breathing parameters are concerned places this regulator in a comparable position to regulators currently available on the market. The demand regulator (breathing apparatus) V2 is air diving regulator perfect for use both in recreational and commercial dives. It is intended for use with any set of air tanks with operation pressure up to 30MPa. It is compatible with all ranges of operation pressure of tanks currently present on the market. This regulator can be successfully used in dives in cold waters as well as in expeditions into warm tropical waters.

Apart from the tests conducted for us by the Polish Navy, we try to bring our regulators under new challenges all the time. Our recent test: Depth 110 m, water temperature 8°C, bottom time 30 min, total dive time 180 min. Dive place: a cave in Croatia.

Result of the test: high comfort in keeping the position by a diver, stable flow of gas during the whole dive. V2 ICE regulators have been successfully used during the dives in closed spaces like caves, flooded mines as well as wracks in Europe for the recent 6 months. The most frequent operation temperature was 4-6 °C and the depth – 40-60 m. Gases used during the dives: air, nitrox, trimix.



# REGULATORS R5 SERIES



# R5 TEC

**DESIGNED FOR** **CE1463**  
**COLD WATER** **EN250**  
**DIVING.**

## **DIR SET R 5 TEC** CONSISTS OF:

- 2 x first stage R 5 TEC, diaphragm with Cold Kit, 4 x LP, 2 x HP
- 2 x second stage R 5 TEC, balanced with Venturi regulation and breathing resistance regulation
- 1 x hose LP 61 cm
- 1 x hose LP 200 cm or 210 CM
- 1 x hose HP 61 cm
- 1 x SPG 300 bar
- 2 x SS swivel bolt snap
- 1 x necklace
- 1 x regulator's bag



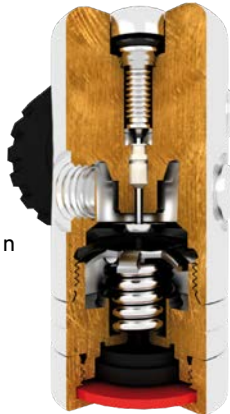
**10 YEARS** WARRANTY FOR THE FIRST OWNER

## FIRST STAGE OF REDUCTION R5 ICE



**CE1463  
EN250**

- Diaphragm
- Additional dry chamber: COLD KIT
- Balanced
- 4 LP ports, 2 HP ports
- Maximum operational pressure: 300 bar
- Maximum flow by 20 MPa pressure: 3823 l/min
- Intermediate pressure: 9,5 bar
- Material: maritime bronze
- Weight: 720g
- Can be used with Nitrox up to 40%



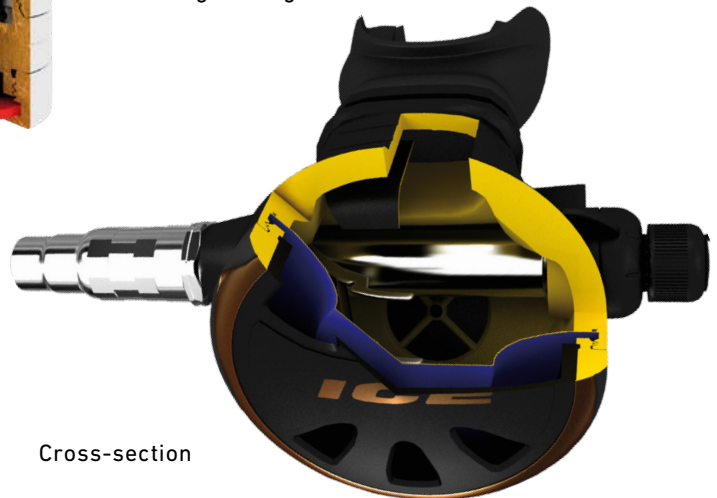
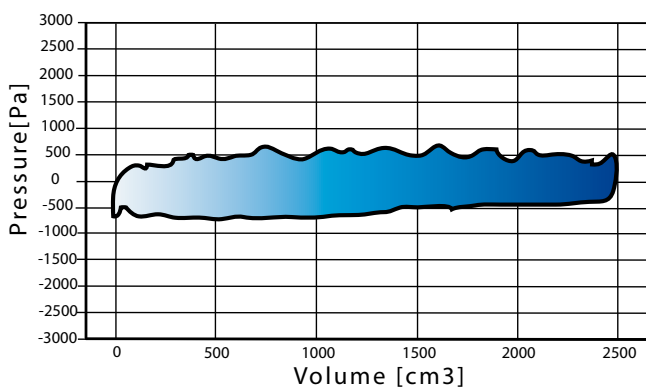
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## SECOND STAGE OF REDUCTION R5 ICE BALANCED



- Regulation of breathing underpressure
- Regulation of breathing resistance
- Breathing resistance : 0,983 – 1,004 J/l
- Maximum flow by 20MPa pressure: 850l/m
- Can be used with Nitrox up to 40%
- Material: polyamide
- Weight: 210g

Low breathing resistance 0,983 – 1,004 J/L



Cross-section



Regulation of breathing  
resistance



Wide exhaust cover

**10 YEARS** WARRANTY FOR THE FIRST OWNER

# REGULATORS R2 ICE SERIES

## R2 ICE

The regulators from series 2, with excellent parameters, proved very well both in practice and in laboratory tests of Polish Marine Academy in Gdynia. On the basis of tests, all of SCUBATECH regulators obtained the certificates CE 1463 from Polish Register of Shipping. These certificates state that our regulators fulfill

the requirements of EN250: 2000 norm, which defines strict technical parameters for regulators designed for cold waters. Regulators from series 2 have incredibly low breathing resistance, which contributes to minimizing air consumption.

**CE1463 EN250**

**OUR REGULATORS WERE TESTED IN LABORATORY OF POLISH MARINE ACADEMY IN GDYNIA**

### FIRST STAGE OF REDUCTION

#### R2 ICE

- Diaphragm
- Additional dry chamber (COLD KIT)
- Balanced
- 4 LP ports, 2 HP ports
- Maximum operational pressure: 300 bar
- Intermediate pressure: 9,5 bar
- Material: maritime bronze
- Weight: 730g
- Can be used with Nitrox up to 40%

Made from maritime bronze with high heat capacity ability to collect heat resulting in increased resistance to freezing.

Diaphragm environment of work of high pressure valve as well as the rest of outer elements separated from the impact of outside environment.

Additional heat protection of a dry chamber "ICE" air chamber separated by main diaphragm and diaphragm of additional Cold Kit.

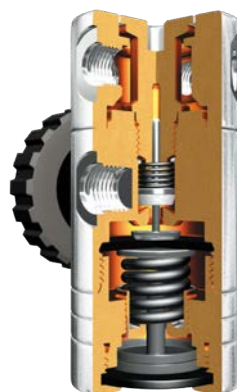
4 LP ports in rotating head – ideal solution for 1-tank, recreational configurations as well as for technical configurations with the use of 2 tank sets.

2 HP ports allowing for the use of both classical manometer and a transmitter for computer.

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### SECOND STAGE OF REDUCTION

#### R2 ICE



Brass cover of valve seat functions as additional protection against freezing of 2nd stage.

### FIRST STAGE OF REDUCTION

#### R2 ICE SPECIAL



Fixed head

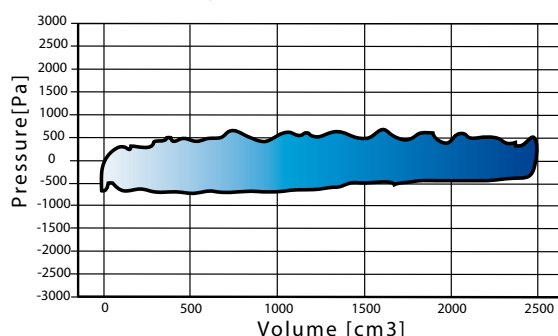


Regulation of breathing resistance



Made of high quality polymers

Low breathing resistance 0,983 – 1,004 J/L



**10 YEARS** WARRANTY FOR THE FIRST OWNER

# R1

Simple and reliable design of the first stage RG 1001 ensures high safety of scuba diving. Despite the fact that it is a piston construction with open chamber, it fulfills the demands of EN250: 2000 norm for cold water regulators. On the basis of the users' experience and the results of the tests conducted by laboratories of Polish Marine Academy in Gdynia, we recommend these regulators for those diving in

cold waters from early spring until late autumn as well as for teaching. Very good price, simple construction which results in low cost of servicing as well as resistance to bad treatment cause that these regulators are used in diving centers in Poland, the Czech Republic, Croatia, Egypt as well as the Crimea and Lithuania.

**CE1463 EN250**

## SECOND STAGE OF REDUCTION

### R1 PRO

- Regulation of breathing under pressure
- Maximum flow by 20 MPa pressure: 850 l/m
- Intermediate hose: black, 70cm
- Material: polyamide
- Weight: 180g
- Can be used with Nitrox up to 40%



## FIRST STAGE OF REDUCTION

### R1 PRO

- Piston
- 3 LP ports, 1 HP port
- Maximum operational pressure: 300 bar
- Maximum flow by 20 MPa pressure: 3823 l/m
- Intermediate pressure: 9,5 bar
- Material: maritime bronze
- Weight: 515 g
- Can be used with Nitrox up to 40%



## OCTOPUS R 3TEC



## OCTOPUS R3



**EACH OCTOPUS IS OFFERED WITH 90CM, YELLOW LP HOSE**

**10 YEARS** WARRANTY FOR THE FIRST OWNER

# COMPARISON TABLE OF REGULATORS

|                                                  | R 1 PRO<br>R 1 PRO 02                                                             | R 2 ICE                                                                           | R 2 ICE<br>Special                                                                | R 5 ICE                                                                             | R 5 ICE<br>Special                                                                  |
|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                  |  |  |  |  |  |
| First stage                                      | R 1 PRO / R 1 PRO 02                                                              | R 2 ICE                                                                           | R 2 ICE<br>Special                                                                | R 5 ICE                                                                             | R 2 ICE<br>Special                                                                  |
| Water chamber protected against freezing ( ICE ) |                                                                                   | ●                                                                                 | ●                                                                                 | ●                                                                                   | ●                                                                                   |
| Rotating head                                    |                                                                                   | ●                                                                                 |                                                                                   |                                                                                     |                                                                                     |
| Quantity of LP/HP ports                          | 4 / 1                                                                             | 4 / 2                                                                             | 4 / 2                                                                             | 4 / 2                                                                               | 4 / 2                                                                               |
| Type                                             | piston                                                                            | diaphragm                                                                         | diaphragm                                                                         | diaphragm                                                                           | diaphragm                                                                           |
| Maximum pressure                                 | 300 bar                                                                           | 300 bar                                                                           | 300 bar                                                                           | 300 bar                                                                             | 300 bar                                                                             |
| Intermediate pressure (working)                  | 9,5 bar                                                                           | 9,0 bar                                                                           | 9,0 bar                                                                           | 9,0 bar                                                                             | 9,0 bar                                                                             |
| Maximum flow at 20 MPa                           | 3823 l/min                                                                        | 3823 l/min                                                                        | 3823 l/min                                                                        | 3823 l/min                                                                          | 3823 l/min                                                                          |
| Ports at an angle                                |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Nitrox up to 40%                                 | R 1 PRO                                                                           | ●                                                                                 | ●                                                                                 | ●                                                                                   | ●                                                                                   |
| Nitrox from 40% to 100%                          | R 1 PRO 02                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Weight                                           | 515 g                                                                             | 800 g                                                                             | 650 g                                                                             | 720 g                                                                               | 650 g                                                                               |
| Material                                         | maritime bronze                                                                   | maritime bronze                                                                   | maritime bronze                                                                   | maritime bronze                                                                     | maritime bronze                                                                     |
| Second stage                                     | R 1 PRO / R 1 PRO 02                                                              | R 2 ICE                                                                           | R 2 ICE<br>Special                                                                | R 5 ICE                                                                             | R 5 TEC                                                                             |
| Venturi regulation                               | R 1 PRO                                                                           | ●                                                                                 | ●                                                                                 | ●                                                                                   | ●                                                                                   |
| Regulation of breathing resistance               |                                                                                   | ●                                                                                 | ●                                                                                 | ●                                                                                   | ●                                                                                   |
| Flow                                             | 935 l/min                                                                         | 950 l/min                                                                         | 950 l/min                                                                         | 950 l/min                                                                           | 950 l/min                                                                           |
| Breathing resistance                             | 0,983 – 1,004 J/l                                                                 | 0,983 – 1,004 J/l                                                                 | 0,983 – 1,004 J/l                                                                 | 0,983 – 1,004 J/l                                                                   | 0,983 – 1,004 J/l                                                                   |
| Inspiration under pressure                       | 35 – 42 mm/H <sub>2</sub> O                                                       | 32 – 42 mm/H <sub>2</sub> O                                                       | 32 – 42 mm/H <sub>2</sub> O                                                       | 32 – 42 mm/H <sub>2</sub> O                                                         | 20 – 38 mm/H <sub>2</sub> O                                                         |
| Balanced                                         |                                                                                   |                                                                                   |                                                                                   | ●                                                                                   | ●                                                                                   |
| Nitrox up to 40%                                 | R 1 PRO                                                                           | ●                                                                                 | ●                                                                                 | ●                                                                                   | ●                                                                                   |
| Nitrox from 40% to 100%                          | R 1 PRO 02                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Radiator                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                     | ●                                                                                   |
| Weight                                           | 220 g                                                                             | 275 g                                                                             | 255 g                                                                             | 255 g                                                                               | 280 g                                                                               |
| Material                                         | polyamide                                                                         | polyamide                                                                         | polyamide                                                                         | polyamide                                                                           | polyamide                                                                           |

|                                                  | R 2 TEC<br>R 2 TEC O2                                                             | R 5 TEC                                                                           | V2 ICE<br>V2 ICE MONO                                                              | R 3 OCTO                                                                            | R 3 TEC OCTO                                                                        |
|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                  |  |  |  |  |  |
| First stage                                      | R 2 ICE<br>R 2 ICE O2                                                             | R 5 TEC<br>Black                                                                  | V2 ICE<br>V2 ICE MONO                                                              |                                                                                     |                                                                                     |
| Water chamber protected against freezing ( ICE ) | ●                                                                                 | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Rotating head                                    | ●                                                                                 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Quantity of LP/HP ports                          | 4 / 2                                                                             | 4 / 2                                                                             | 2 / 1<br>4 / 2                                                                     |                                                                                     |                                                                                     |
| Type                                             | diaphragm                                                                         | diaphragm                                                                         | diaphragm                                                                          |                                                                                     |                                                                                     |
| Maximum pressure                                 | 300 bar                                                                           | 300 bar                                                                           | 300 bar                                                                            |                                                                                     |                                                                                     |
| Intermediate pressure (working)                  | 9bar                                                                              | 9,0 bar                                                                           | 9,0 bar                                                                            |                                                                                     |                                                                                     |
| Maximum flow at 20 MPa                           | 3823 l/min                                                                        | 3823 l/min                                                                        | 3823 l/min                                                                         |                                                                                     |                                                                                     |
| Ports at an angle                                |                                                                                   | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Nitrox up to 40%                                 | R 2 TEC                                                                           | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Nitrox from 40% to 100%                          | R 2 TEC O2                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Weight                                           | 800 g                                                                             | 805 g                                                                             | 795 g                                                                              |                                                                                     |                                                                                     |
| Material                                         | maritime bronze                                                                   | maritime bronze                                                                   | maritime bronze                                                                    |                                                                                     |                                                                                     |
| Second stage                                     | R 2 TEC / R 2 TEC O2                                                              | R 5 TEC                                                                           | V2 ICE                                                                             | R 3 OCTO                                                                            | R 3 TEC OCTO                                                                        |
| Venturi regulation                               | ●                                                                                 | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Regulation of breathing resistance               | ●                                                                                 | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Flow                                             | 950 l/min                                                                         | 950 l/min                                                                         | 950 l/min                                                                          | 935 l/min                                                                           | 935 l/min                                                                           |
| Breathing resistance                             | 0,983 – 1,004 J/l                                                                 | 0,983 – 1,004 J/l                                                                 | 0,983 – 1,004 J/l                                                                  | 0,983 – 1,004 J/l                                                                   | 0,983 – 1,004 J/l                                                                   |
| Inspiration under-pressure                       | 20 – 38 mm/H <sub>2</sub> O                                                       | 20 – 38 mm/H <sub>2</sub> O                                                       | 20 – 38 mm/H <sub>2</sub> O                                                        | 37 – 47 mm/H <sub>2</sub> O                                                         | 37 – 47 mm/H <sub>2</sub> O                                                         |
| Balanced                                         | ●                                                                                 | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Nitrox up to 40%                                 | R 2 TEC                                                                           | ●                                                                                 | ●                                                                                  | ●                                                                                   | ●                                                                                   |
| Nitrox from 40% to 100%                          | R 2 TEC O2                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Radiator                                         | ●                                                                                 | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |
| Weight                                           | 280 g                                                                             | 275 g                                                                             | 270 g                                                                              | 220 g                                                                               | 225 g                                                                               |
| Material                                         | polyamide                                                                         | polyamide                                                                         | polyamide                                                                          | polyamide                                                                           | polyamide                                                                           |

# STAGE REGULATORS

## STAGE SET R1 PRO O2

- 1 x I-st stage R 1 PRO O2
- 1 x II-nd stage R 1 PRO O2
- 1 x LP hose green 1 m
- 1 x HP hose 0,15 cm
- 1 x SPG O2

## STAGE SET R2 TEC O2

- 1 x I-st stage R 2 TEC O2
- 1 x II-nd stage R 2 TEC O2
- 1 x LP hose green 1 m
- 1 x HP hose 0,15 cm
- 1 x SPG O2



### CE1463 EN250



O2 BAG FOR STAGE REGULATORS

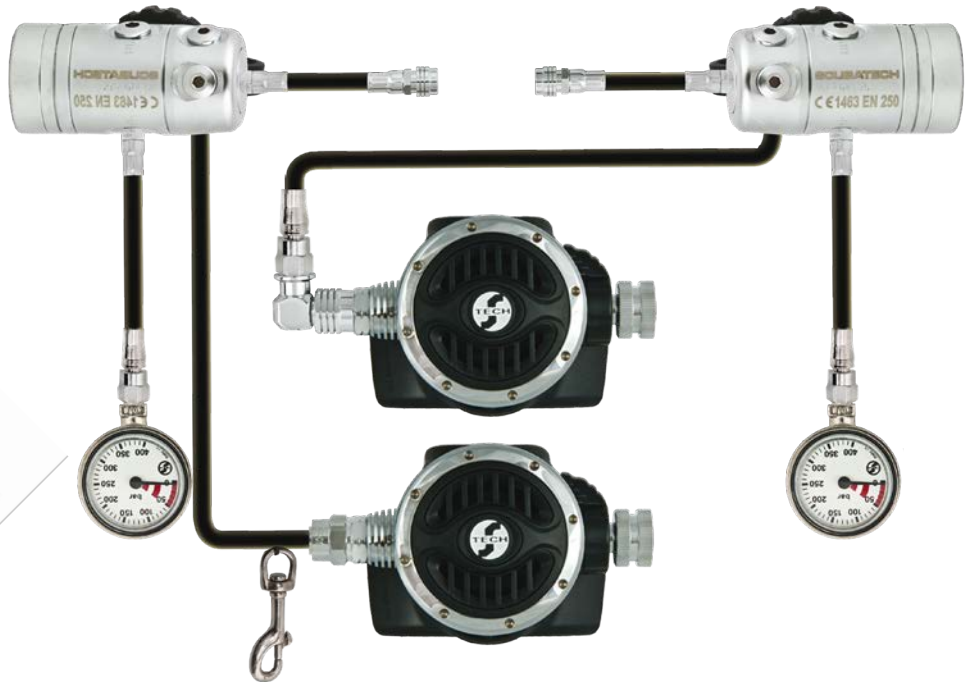
10 YEARS WARRANTY FOR THE FIRST OWNER

# SIDEMOUNT REGULATORS

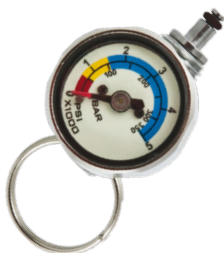
## R 2 TEC SIDEMOUNT SET CONSISTS OF:

**CE1463 EN250**

- 2 x first stage R 2 TEC, diaphragm with Cold Kit
- 2 x second stage R 2 TEC, balanced with Venturi regulation and breathing resistance regulation
- 1 x hose LP 65 cm
- 1 x hose LP 210 cm swivel 90 degrees
- 2 x inflator hose LP 20 cm
- 2 x hose HP 20 cm
- 2 x SPG 400 bar
- 1 x SS bolt snap 88mm
- 1 x necklace
- 1 x regulator's bag



## ARGON SETS



1st stage with integrated over pressure valve



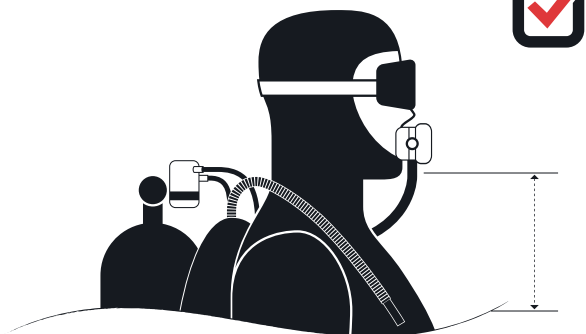
0,85L, 1,5L & 3L  
aluminum Luxfer  
tanks

**10 YEARS** WARRANTY FOR THE FIRST OWNER

## DONUT 22 *Special Edition*

### DEDICATED FOR PERFECT BUOYANCY

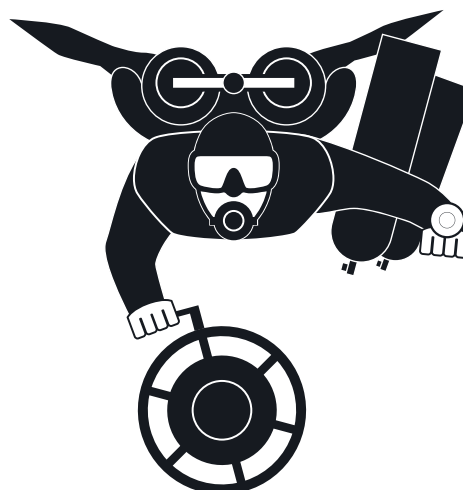
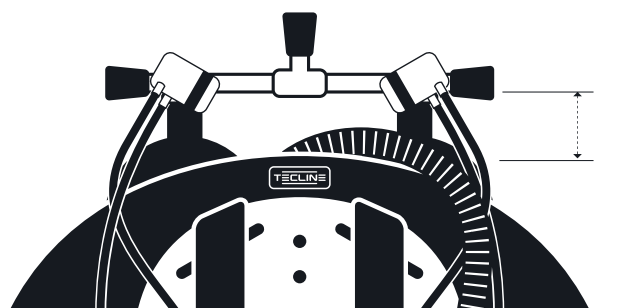
HIGH SURFACE POSITION



EASY DUMP SYSTEM



EASY VALVE ACCESS



COMPATIBLE WITH ALL CONFIGURATIONS





**CE CERTIFIED CE1463 EN1809**



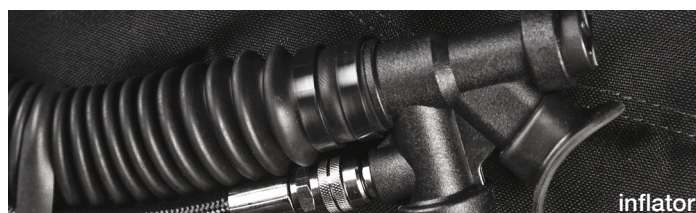
This wing would be an ideal tool for both recreational divers starting their adventure with twin sets and for advanced explorers diving each day with side tanks, scooters and other additional equipment... this wing is called Donut 22 Special Edition. The first Polish wing for twin set 2 x 12l was created based on the expectations of divers, instructors and thousands of hours spent underwater in different equipment configurations. The wing has a shape of uneven circle which allows for an efficient spread of gas in any direction and, in the same way, for keeping the chosen position under the water. Making the wing wider and a special pad sewn in the outline of the wing resulted in a good positioning of the diver even when diving with additional tanks. The pad has additionally increased the wing's capacity without making its outline bigger – the result is a small wing with big capacity. A wide strip in the lower part of the wing allows for the use of this additional capacity giving the diver a "high" position on the surface. A stable position under water can also be kept due to easy release of gas. The back valve was placed in an intuitive position. We simply find it when we place our hand on the dump valve. The inflator is placed centrally so that its port is positioned exactly between the tanks. This allows for gas release through the inflator without the need for strong leaning backwards. The wing is also sold with additional, shorter inflator's hose allowing the diver to choose the size according to his/her preferences. The wing is very narrow in the

## WHAT IS THE IDEAL WING FOR THE 2X12L SET?

BELOW IS THE LIST OF THE CRUCIAL CRITERIA:

- Small size that goes with proper capacity and simple, safe construction
- Stable position underwater with doubles and several stages
- Streamlined shape allowing for entering the narrow spaces
- Durable material – UV resistant and tough
- Capacity big enough to keep a diver with doubles and 1 stage in high position above water
- Quick release of gas in each position with the use of both inflator and a dump valve
- Separated placement of the hoses regardless the type of regulators being used and the configuration
- Safe and easy access to valves both under the water and on the surface with the wing fully filled

More information on how the wing was being created can be found on the internet forum Divetrek Group: <https://www.facebook.com/groups/166781186689889/>  
A film showing how easy it is to use the Donut 22 Special Edition can also be found there.



upper part allowing in this way for virtually unlimited possibilities of hoses and regulators' configurations. It also ensures easy access to the valves. Positioning of the wing against the set and plate can be established by choosing one of the two sets of holes for screws mounting the wing on the tanks. The prototype of the wing was carefully checked – before the mass production began our tester had done about 200 dives with it, in the Baltic Sea, lakes, quarries, Florida caves, flooded underground and... pools with chlorinated water. The tests have shown that the wing's materials are really resistant and that the equipment is extremely comfortable to use.

## TECLINE TV:

How is Donut 22SE built?



See Donut 22SE in action



Swimming pool test

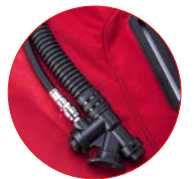


# TECLINE DONUT 22 SE RED - LIMITED EDITION



**TECLINE**  
LIMITED

**DONUT 22** *Special Edition* **RED**



**CE CERTIFIED CE1463 EN1809**



„I know that well-made, reliable equipment can save your life”

### PHIL SHORT REVIEW

[WWW.PHILSHORTTECHNICAL.CO.UK](http://WWW.PHILSHORTTECHNICAL.CO.UK)

*Phil Short has been diving for over 20 years. During this time he has logged over 6000 dives with over 3000 hours on rebreathers. Phil deals with preparing and testing rebreather systems; he is also a trainer preparing both new divers and other instructors for CCR diving. He has been taking part in many diving expeditions in places never visited before. Phil has also cooperated with many scientific organizations in the field of underwater research. He acts as a dive industry consultant for many diving equipment manufacturers.*

As an Instructor Trainer, scientific diver and Explorer quality, well-made reliable equipment is quite simply 'life support'. I have worked with Tecline over the last few years, teaching CCR classes for their customers, presenting on product at dive shows and consulting on Tecline product and when offered the opportunity to work with Tecline in the design of a CCR specific wing/BC was excited at the prospect. Through various prototype phases of development and design we arrived at the Tecline Donut 22 SE'. The aim was to make a tough, functional, reliable and long lasting product that specifically met the needs of the Tech-

nical CCR Diver. Many CCR have a lot of weight in the lower section with 1st stages and cylinder valves in this position and are buoyant in the upper section due to the counter-lung/lungs. The Donut 22 SE was designed to offer a larger buoyancy chamber at the base and smaller at the top to specifically meet the trim requirements of CCR Diving. The fitting of the inflate mechanism and dump to rubber plates add strength and longevity to the design and, as with all Tecline product I have personally used to date, build quality and materials are exceptional.

PHIL SHORT

## TECLINE *Special Edition* RB

### REBREATHER BUOYANCY COMPENSATORS

FOR SENTINEL AND MANY OTHER REBREATHERS

**CE CERTIFIED CE 1463 EN1809**



## TECLINE DONUT 17 *Special Edition*



Safer dives under ice with double set 2 x 7 and a wing Donut 17SE as well as with V2 ICE regulators. Recreational divers are more frequently turning to double sets. The set 2 x 7l is far more functional than a single tank and, at the same time, it can be lighter than this. It is safer, while also helping to maintain the correct position under the water, which can be crucial during dives under ice. D 17 SE design not only allows you to easily control the buoyancy, but also provides a stable and high position of a diver on the surface of the water. Beginners are most afraid of losing control of buoyancy - Donut 17 Special Edition simplifies perfecting this skill. The biggest surprise for recreational divers is much greater sense of comfort when you change the configuration from a single tank to a double set. The reason is the use of 2 elements: Donut 17 SE wing prepared especially for those diving in double set 2 x 7l and the set of V2 ICE regulators.

### Do you have any doubts? See for yourself!

Find out how Donut 17 SE will improve the comfort of your dive. Try the set: a wing + double set 2x7 + V2 ICE regulators. Become an aware recreational diver- get ready for the dives under ice right now!\*

Instructors conducting intensive training in double sets appreciate the advantages of set D17SE + V2 ICE as an exact copy of the larger double sets, allowing them to use these kits to any presentations. 5-year warranty on Donut 17 SE gives a sense of security also for the professionals.

*\* Using double sets requires knowledge of the principles of safe diving in such a configuration. Ask your instructor how to safely dive in double sets.*



SAFER DIVES UNDER ICE  
WITH DOUBLE SET 2 X 7  
AND A WING DONUT 17 SE  
AS WELL AS WITH V2 ICE  
REGULATORS.



**CE CERTIFIED CE1463 EN1809**

# DONUT 30 *Special Edition*

## DEDICATED FOR PERFECT BUOYANCY

Donut 30 Special Edition is a wing for divers with the highest expectations as far as equipment is concerned. Prepared for explorers and divers using big double tank sets and advanced multistage techniques. Made from advanced materials which allows swimming through cave restrictions or narrow passages inside wrecks with no impact on the wing condition. Intuitive gas dumping with no need for changing the position while DPV diving. The wing's shape enables desired hoses and regulators configuration and leaves a lot of free space behind the diver's head at the same time. This wing keeps the diver equipped in 2 x 20 liters twin together with 6 big stages on the surface with ease. Asymmetric construction of the lower part of the wing supports rescue action when unconscious diver on the surface involved. The wing works perfectly with the sets 2 x 18l and American 2 x 125cf.



**CE CERTIFIED**  
**CE1463 EN1809**

YouTube  
Tecline TV:  
Donut 30SE  
swimming  
pool test



### DONUT'S FEATURES:

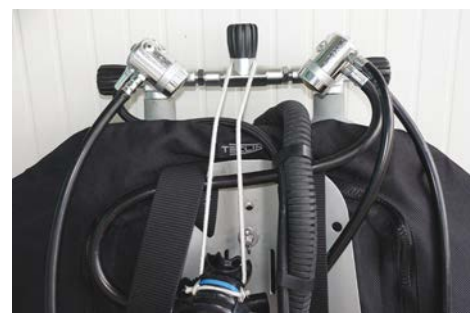
- Easy buoyancy control even when using multistage and DPV
- Capacity which keeps a diver high on the surface even with full set and many stages
- Enough space for hoses in any configuration
- Easy putting on and removing
- Possibility to apply many batteries on the harness
- Made for easy stages rotation and DPV diving
- Comfortable position on the surface makes conducting a rescue operation easy
- The possibility to apply a big tank with argon without losing the wing's geometry



Donut 30 SE in action



Donut 30 SE & Donut 22 SE



Easy valve access

## DONUTS:

CE CERTIFIED CE1463 EN1809

**DONUT 15**



**DONUT 17**



**DONUT 22**



**WING 25**



**DONUT 15**



**DONUT 17**



**DONUT 22**



**WING 25**



**BUILT-IN MONO  
TANK ADAPTOR**



### ULTRA LIGHT TRAVEL SET

Set weight: 3,2 kg!

The set consists of the wing Donut 15 or Donut 17 (chosen by the buyer), harness DIR on aluminum backplate Combo 3mm, belt for a mono tank as well as 2 trim pockets and 2 weight pockets. Due to the usage of Combo type backplate there is no need for a separate mono tank adapter.



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# TECLINE ACCESORIES SYSTEM



## DIR STYLE HARNESSES

## COMFORT HARNESSES

|                                                  |
|--------------------------------------------------|
| ADJUSTABLE                                       |
| SHOULDER PADS                                    |
| ALUMINIUM & STAINLESS STEEL BACKPLATES 3MM & 6MM |
| 2X SHOULDER D-RINGS                              |
| 2X CROTCH STRAP D-RINGS                          |
| 1X WAIST D-RING                                  |



## We asked a couple of people who deal with scuba diving in a professional way which BCD they use and why. **HERE ARE THEIR ANSWERS**



### **MICHAŁ KOSUT**

*PADI Platinum Course Director  
DSAT Tec Trimix Instructor Trainer*

I use TECLINE Donut 22 for technical dives and trainings. This wing is ideal for me on the depth 50-90m with a set 2 x 12l and with a set of 2 to 4 stages. The wing's shape of a donut, like a tire, makes it easy to adjust the buoyancy without the need of changing the trim. Such shape also helps in coming back to the surface in a horizontal position. Although I have been using this wing for over a year now, I evaluate its performance and construction very highly. Despite using the product quite regularly, it has virtually no signs of wear.



### **KRZYSZTOF WNOROWSKI**

*Instructor Trainer SSI, Instructor PADI, CMAS, IANTD, DAN, HSA. Cofounder of BalticTech conference and BalticExplorers group*

I have known the Tec Line products for a long time. Running the company Centrum Nurkowe Tryton (diving centre "Tryton"), I have a pleasure in testing and checking most of the products available on the market. I like the wing Donut 22SE because of its construction and affordable price. It matches ideally to the set and it doesn't collide with hoses and manifold from double-tank set. In my view, everyone who dives in this wing even once will never want to replace it with any other product.



### **JACEK TREMBOWELSKI**

*IANTD Instructor, [www.trembowel.pl](http://www.trembowel.pl)*

I was using Halcyon Explorer 55lbs for a long time. But I've been using Tecline Donut 22SE since recently and I really appreciate it for: easy flow of gas inside the wing which results in easy disposal of gas; ideally positioned back valve, for which I reach in an intuitive way without having to search for it; for its shape giving me a very good trim underwater and keeping my head high above water when I'm on the surface. This wing also doesn't give you the feeling of squeezing your body when it's fully pumped on the surface. I really recommend it!



### **MICHAEL GERHARTZ**

*Instructor & SI Explorer*

After diving several different Wing-Systems from different manufacturers, I am now using only the Tecline 22 Special Edition Donut Wing. The system works perfectly with a different range of double tanks for both recreational and technical diving and it's design always allows it to be as streamlined as possible. Even the harsh conditions of the Canadian winters on our east coast have no effect on this great wing. I am really satisfied with it's performance.



### **JOHN SHAW**

*PADI/IANTD instructor  
Shawtek equipment sales and training*

I have been using the Tecline special edition wing for the last 6 months. I have found it to be one of the best I have ever used. It trims out perfectly and when either under the water or on the surface is extremely comfortable. When the wing is fully inflated I have found that my suit inflation cylinder nor my canister from my torch are pushed uncomfortably into my back unlike many other wings on the market. Despite the constant use it has had it still looks as good as new.



### **SEBASTIAN POPEK**

*IANTD Instructor Trainer Normoxic Trimix  
IANTD Trimix Instructor  
IANTD Technical Wreck Instructor*

I use this wing during my dives together with a set 2x 12l or PSCR TresPreseidentes 2x8,5l. It's the best wing I have dived in for the last 15 years. I use this wing for both recreational dives and dives during the courses when I give it to my students. It helps them to learn to control their buoyancy and proper position underwater in a quicker way. As a user I mainly appreciate this wing for its shape in the upper part which makes it easy to properly position the inflator hoses. It is possible thanks to a small amount of fabric in the wing's upper part. Properly positioned exhaust valve allows for the release of gas without the need to change the position underwater. Apart from that, the well chosen inflator valve lets me add even the small amounts of gas. Now I am waiting for a bigger brother of this version so that I can use it with sets 2x20 and PSCR 2x12 and 2x20.



### **TYMEK PODGÓRCZYK**

*IANTD Technical Wreck Instructor*

Excellent and well thought out wing. Efficiency and positioning of back valve (flush) and the inflator makes the release of gas very simple both from the upper and lower valves. Low profile in the upper part of the wing results in the fact that there is no problem in placing the hoses in a proper way, even if the tank is lowered on the tank band. I successfully use the wing with 2x12l set as well as for the rebreather with a frame 2x8,5l. I am looking forward for the bigger brother of Donut 22 SE dedicated to sets 2x18 and 2x20l, which, I hope, will soon be available.



### **MITCHELL LEPINE**

*TDI Instructor Trainer*

I have been using a variety of wing and backplate configurations from just about every major manufacturer, over the years to accommodate my needs for wreck diving. The Tecline D 22SE has got it right. The compact design provides excellent trim characteristics and streamlining. I was also quite impressed with the ease of gas flow through the bladder. Retaining a horizontal position in the water column, even with a heavy load of steel cylinders at the end of the dive, is that much easier. I look forward to putting this bladder to a lot more use.



### **IVAR THOR' KLERKS**

*GUE Cave1/Tech1*

I have used different wing concepts, from dualbladder, bungee to plain simple both horseshoe and donutstyle. The Tecline Special Edition is the best of them all. A sturdy and well thought out design, loads of room on the topside for hoses and valve management. The bottomside creates a lot of lift when on the surface but not too much buoyancy when diving. Whether I'm cleaning North Sea wrecks, diving river based archeological sites, caves, GUE Project Baseline: The Netherlands or just for fun I trust this wing completely.



### **WOJTEK A. FILIP**

*Wreck and cave diver, Instructor of GUE, IANTD, PADI, CMAS, professional tester of diving equipment*

I spend about 800 hours underwater each year in different weather conditions. I use Tecline Donut 22 Special Edition which was designed by me. I consider this wing to be an optimal solution for dives with 2 tanks with many side tanks and additional equipment.



# Converted! A Sport Diver's Path to Enlightenment.

**SOFIE HOSTYN IANTD SOUTH EAST ASIA**

## TECLINE DONUT 17 WING & HARNESS

I am a sport diver, a recreational diver. I dive with a single cylinder and have no technical ambitions at all. These I leave to my husband. I appreciate that he has a thing about caves and deep shipwrecks but I do not share this obsession. I also understand how important it is that he has the right equipment for this type of extreme diving and how essential it is that the equipment should be set up correctly.

In my 15 years of diving, all my BCDs have been bought off the shelf. I choose the make and model, try it on, take it home and go diving – as simple as that. If it later turns out that there is something I don't like about it, I just say "oh well!" to myself and carry on. One of the elements of technical diving that has piqued my interest over the years is how much effort is spent on getting the "gear / rig / kit" customised to suit each diver's needs and personal preferences. This means that the equipment needs to be extremely versatile, especially the wing and harness style BCDs that technical divers use. I have always found this flexibility to be an attractive concept.

So when I saw that Tecline had developed a wing and harness specifically for single cylinder divers I was intrigued by the idea. Then, when I read further and saw that they had a version that weighed only 3.2 kgs, I was sold. I travel a lot on small aircraft to remote places for a lot of my diving so keeping baggage weight and excess charges down is a major priority. So I put in my order for an ultra-light travel kit of Donut 17 wing with DIR harness and aluminium backplate.

### First Impressions

Having been accustomed to just using my dive gear "out of the box," I felt a little daunted by the mass of webbing that greeted me when I opened the package. Of course, it makes complete sense that enough webbing should be included for even the largest of divers and I swiftly started adapting the straps to my size. The webbing moved smoothly through the grooves in the backplate, it was easy to adjust the belt slides and D rings and within a few minutes I had a well-fitting harness. All I had to do then was cut off the excess, leaving a fairly long tongue for when I need to adjust the fit for diving with my drysuit.

I was impressed with the provision of two cylinder bands instead of one. This is a safety feature that makes so much sense. I wonder why the manufacturers of conventional BCDs do not use two bands. You so often see divers in trouble because their cylinder has dropped through a single band. I also noticed how well made everything was: all the edges on the backplate were smoothed off, the webbing was strong yet soft and pliable and the sewing on the wing was almost invisible, so close were the stitches.

### Storage

The absence of pockets was initially disconcerting but my husband showed me how my dive light fit snugly underneath the two rubber loops provided at the bottom of the left shoulder strap and my safety sausage slotted easily under the loops on the other side. There was plenty of space on the waist harness to add a zippered pouch if I needed to carry other things but for now I had nothing else I needed.

### Diving

This was the first time I had dived with a wing and harness and also the first time I had used a crotch strap. I thought I would find it strange but I did not even notice it. The whole set up felt immediately comfortable and the absence of bulky BCD panels and pockets under my arms meant that I could move my arms much more freely than ever before on a dive.

Trim weight pockets had been provided as standard, attached to one of the cylinder bands and I spread my weight between these instead of wearing a weight belt. This was not a huge success as I felt that the additional weight gave the cylinder a tendency to try to roll me onto my back. So for my second dive, I moved the pockets to my waistband, threading them on and holding them in place with a belt slide. This was much more successful and the exercise was a perfect demonstration of how flexible the system is. If you find something that is not to your taste, you can just change it.

After only a couple of dives I was converted! I was diving with a device that, when inflated, gave me more buoyancy on the surface than my previous BCD but, when deflated during my dive, was less buoyant because of the absence of unnecessary bulk. Therefore I needed less weight: a major bonus that I had not anticipated! I had chosen the Donut 17 wing; with an aluminium cylinder and in warm water I would have been fine with the smaller 15kg wing too.

I was more comfortable, had more freedom of movement and easier access to my torch and safety sausage, as all I had to do to deploy them was pull them out of the rubber bands, rather than unzip a pocket. I had a heavy duty D ring half way up each shoulder strap to clip my gauge and alternate second stage off to and I had been able to adjust these to exactly the height I wanted them at.

Then, when I came to place my bag on the airline scales before our dive trip to West Papua last month, I found that my luggage was underweight for the first time ever! I felt truly enlightened – in all senses of the word!

**SOFIE HOSTYN**

“Sometimes you need to  
step back to move forward!”



**SIMON PRIDMORE**

REGIONAL TRAINING DIRECTOR  
IANTD SOUTH EAST ASIA  
AUTHOR SCUBA CONFIDENTIAL

BALI INDONESIA, JUNE 2013

## INDEPENDENT TEST OF **DONUT 22** SPECIAL EDITION



Tecline redefines the state of the art in wing and harness design with a return to the roots of technical diving. Technological evolution often tends to move users from simple tools to more complex machines, but, paradoxically, development in the opposite direction can sometimes be more effective. This has certainly been the case in respect of buoyancy devices for technical divers and the new simple harness / stainless steel backplate and Donut 22 Special Edition Wing combination from Tecline raises the bar in terms of quality, simplicity and effectiveness of design.

### An Historical Perspective

I first encountered these guys ten years ago in their early days. Then they were developing gear for technical divers in Central Europe who were demanding equipment that matched high quality with low cost. This seems to have been the company's unofficial slogan over the years and, as it has taken its business worldwide, Scubatech / Tecline has kept faith with its business model of building excellent products and selling them at reasonable prices. In the early days of technical diving, small companies and talented individuals created simple wings and harnesses for the relatively small number of people that needed them. Then, sensing the arrival of a promising new income stream, the major manufacturers moved into the technical marketplace and built complex, cantilevered systems designed by engineers rather than divers. Nobody wanted them!

So the equipment began to evolve in another direction, with products that retained the simplicity of the original concepts but added quality of materials, finishing and versatility. This Tecline offering is the latest evolutionary step.

### The State of the Art

As you will see, I am a big fan of the system. Why do I like it so much? First, the Tecline folk have intelligently designed the Donut 22 Special Edition wing specifically for divers using double aluminium 12 litre (80 cu ft) cylinders, by far the most commonly available set up in the world for travelling divers like me. You know you have a good piece of kit from the moment you open the box. The steely, solid shine of the backplate with its bevelled edges, the strength of the webbing with the ends sealed to prevent fraying, a choice of short and long corrugated hoses, pre-bent stainless steel D rings on the shoulders, a selection of other D rings elsewhere, including two on the crotch strap: the signs of a meticulous attention to detail are evident everywhere. The harness and backplate fulfil their primary function perfectly, i.e. to keep the diver permanently attached to his gas supply and help him remain as stable as possible in the water while he breathes from that gas supply.

# INDEPENDENT TEST OF DONUT 22 SE



The 2" webbing used is extremely strong and comfortable and the harness allows the diver to fit attachment points, pouches, sleeves and pockets according to his personal configuration preferences. It does not dictate where these should go but allows the diver complete freedom.

To be useful, a wing must not introduce complexity to the diver's set up. Again, it just has to do what it is supposed to do with no fuss. Its principal function is to offer sufficient positive buoyancy to keep a diver comfortable on the surface with his head well clear of surface chop: and the expansion panels built into the fabric of the Donut 22 Special Edition wing for exactly this purpose do an excellent job.

Underwater, a wing must create minimal drag and have as little integral positive buoyancy as possible to avoid the need for a diver to carry additional weight in compensation. The Special Edition is astonishingly slim-line considering its 22 kg lift capacity. With the stainless steel backplate, wearing a 3mm wetsuit and carrying double aluminium 12l (80 cu ft) cylinders and an aluminium 3l (30 cu ft) stage cylinder I need no additional weight at all. And even when swimming against a current, I feel no additional drag at all, even with the cell partially inflated at depth.

A wing must also not disrupt a diver's trim and, cleverly, the circular "Donut" shape of the air cell ensures even distribution of buoyancy over the diver's back to help keep him flat with butt and legs horizontal. This is a welcome return to the original concept of a cave diver's wing. All I need to do is add a couple of spurts of air, wriggle around a little so the air can circulate around the cell, then set off. I have perfect trim instantly!

I really like the central position of the inflator hose elbow, which keeps it completely out of the way of valves and regulator first stages and allows greater flexibility with hose placement. Another indicator of the level of thought that has gone into the design of the wing is the fact that the upper panel has been deliberately made slimmer and less bulky to facilitate hose and regulator configuration and make it easier for a diver to reach back and manipulate his valves, even when the wing is fully inflated. The butt pull release is on the left and easy to find. This kit is just so straightforward to use!

## Going Back to Move On

It seems strange to write of evolution when describing equipment that owes its design to the early days of technical diving but progress does not always involve forward movement. Sometimes you have to retrace your path in order to find the right road!



**THE PERFECT  
CONFIGURATION:  
DONUT 22 SE  
+  
DIR SET V2 ICE  
REGULATORS**



# SIDEMOUNT SYSTEM

## SIDEMOUNT BCD **SIDE 16**

- Cordura 2000
- Lift capacity 16 kg / 35 lbs
- 6 weight pockets max 16 kg
- Aluminum backplate
- Adjustable waist belt
- Additional chest belt
- Crotch strap
- 7 stainless steel d-rings
- Inflator 13" / 33 cm
- 1 x release valve
- Free size

**POSSIBILITY  
TO MOUNT  
INFLATOR  
ON LEFT OR  
RIGHT SIDE**



## SIDEMOUNT BCD **SIDE 16 AVENGER**

Sidemount configuration was used by the early cave explorers, looking for a way to transport their tanks comfortable in the dry cave sections and being able to pass through narrow restrictions under water and if necessary to completely remove and replace the tanks under water. In those early pioneer days there were no commercial sidemount sets available, so self-constructed harnesses were used to hang the tanks more or less on the side and a couple of regulators in a recreational configuration to complete the setup. That was it and it worked, most of the times.

Things evolved a lot since those pioneer days. Materials and designs got much better. The general diving philosophy emphasized a lot more on safety, resulting in more specialized and thorough dive training. But most importantly, many of those DIY sets, be it backmount, sidemount etc. were crystallized by the dive gear manufacturers into commercial available kits.

The last 5 years, diving with side mounted tanks changed from being a necessity for cave explorers into a well appreciated and comfortable way of diving for the mainstream diving (recreational and technical) population.

Many brands jumped on this new phenomenon and created SM sets just to have a SM set in their product range. Some were successful, many others not.

Tecline took another approach and listened to the needs, experiences and wishes of SM divers (both rec, tec and cave) and used this as a guideline to create the ultimate SM set.

The main goal with this approach was not to create another new sidemount system just for the sake of it. No, this was all about creating a robust, clean and simple to use sidemount set both for recreational and technical SM divers.

The base for the Avenger was Tecline's sidemount set, SIDE 16. The SIDE 16 is a good SM set but still left enough room for improvement. And so it happened. Michaël Doumont (XperienceDiving / MDSTechnology) and Karel Levrau (Narcotec) disassembled the SIDE 16 and rebuilt it with a fair deal of improvements. After a lot of testing and fine tuning the details and improvements, they claimed this remodeled Tecline SM set to be the ultimate in SM diving. So this is how Tecline's SIDE 16 AVENGER was born.

# WHY IS THE AVENGER YOUR CHOICE ?

The AVENGER has a clean and simple DIR harness with the necessary D-rings and crotch strap evidently. This harness can easily be adjusted both on the attachment points on the back as on the waist, without the complexity of many other SM sets. This makes the AVENGER an excellent set for e.g. teaching as it is the easiest and fastest adjustable SM on the market. The AVENGER is a real "plug and play" system. Because the webbing for shoulders and waist are separate, they can be different in thickness, flexibility in this way offering a lot of possibilities to customize your comfort level. The harness and bladder act as 1 unit when assembled. This allows for super easy getting in and out of the set.

Under the bladder of the AVENGER there are 4 fixed weight pockets which can hold up to a total of 10 kg. The position of this weight pockets, slightly more downwards and outwards, offers a more streamlined profile compared to sets which have the weights on top of the spine. Putting these fixed weight pockets more downwards also gives a much better trim as the weight of the tank valves are compensated better in that way. A little more weight downwards will also help a lot of dry suit divers getting the perfect trim. If 10 kg is not enough, 2 more trim pockets can be added, left and right, to the waist belt. These pockets come in 2 sizes: 2 kg each or 4.5 kg each. So no more need to attach weights with tie-wraps on pieces of the harness everywhere.

The AVENGER's bladder went through a few changes, too. The inflator corrugated hose on the bladder can be repositioned coming from either the right or the left. The other port then can be used as dump valve or OPV. On the lower part of the bladder an extra dump valve is added. The position of this extra dump valve is in the arched, thus lowest, part of the back and doesn't hinder while going through restrictions, etc. The highest section of the bladder has been cut a bit so as not to increase the divers profile. The trim pocket in this section has also been removed for the same reason.

The waist belt is also separately adjustable from the shoulder straps. Again, this allows for quick adjustments when needed. The waist belt comes standard with the extra hard webbing, allowing for easy adjustment of the sliding D-rings while diving in order to maintain the perfect trim for the tanks. The waist belt attaches to the bladder much more to the inside, allowing to move the sliding D-ring much more backwards. This can come in handy when diving with heavier steel tanks for example. This way of attaching the waist belt to the bladder allows the bladder to better wrap around the diver and as a result is more streamlined than most other SM sets.

The AVENGER comes with a beaver tail which can be removed. The beaver tail with the 3 sectioned fixed D-rings is preferred by many SM divers diving with steel tanks, but is also a handy storage point for your extra gear, pony bottle, battery pack, .... With the beaver tail detached, the holes can be used to attach a battery pack, your pouch with extra gear, etc.

Attaching the cylinders depends on your personal choice and sometimes also on the tanks used (heavy steel vs aluminum) and can be done either with a floating bungee or fixed bungee with bolt snap. Both items come with the kit.



**CE CERTIFIED CE1463 EN1809**

## JACKET BCD **EXPLORER**

- Cordura 2000
- Lift capacity 22 kg / 50 lbs
- Aluminum backplate
- Adjustable waist belt
- Additional chest belt
- Crotch strap
- 8 stainless steel d-rings
- Inflator with release valve
- 1 x release valve in the back
- 1 x release valve on the shoulder
- Sizes: S/M, L/XL
- Small front pocket
- 2 x cargo pockets
- Integrated weight system max 16 kg

**CE CERTIFIED**  
**CE1463 EN1809**



# STAINLESS STEEL ACCESSORIES

## SS BOLT SNAP - „D“ TYPE EYE



72mm



88mm



100mm



115mm



120mm

## SS DOUBLE ENDER SNAP



90mm



100mm



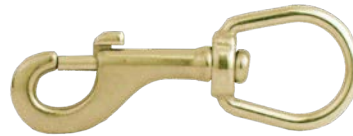
115mm

## BRASS DOUBLE ENDERS



L= 90/100/115/120mm

## BRASS BOLT SNAPS



L= 76/86/88/100/120mm

## B-RINGS



56mm x 72mm/ Ø 6mm  
base 22mm x 60mm

## D-RINGS



56mm x 72mm/ Ø 6mm

## SS BUCKLES



50mm x 60mm x 91mm

## SS BUCKLES



50mm x 60mm x 80mm



45°

90°



46mm x 62mm/ Ø 6mm  
base 32mm x 62mm

## OVAL



50mm/ Ø 6mm

## SS SLAM SNAPS



## OVAL

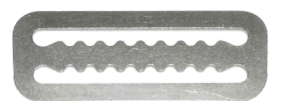


60mm/ Ø 6mm



L= 60/70/80/100/110/120mm

## TRIGLIDERS



22mm x 60mm x 50mm



L=80mm/100mm

# REELS AND SPOOLS

## SPOOLS WITH SS SNAPS



## SPOOL WITH WINCH



## COLD WATER SPOOLS WITH SS SNAPS



## TECLINE REELS



## TECLINE REEL EXPLORER CAVE

L = 260m/800ft



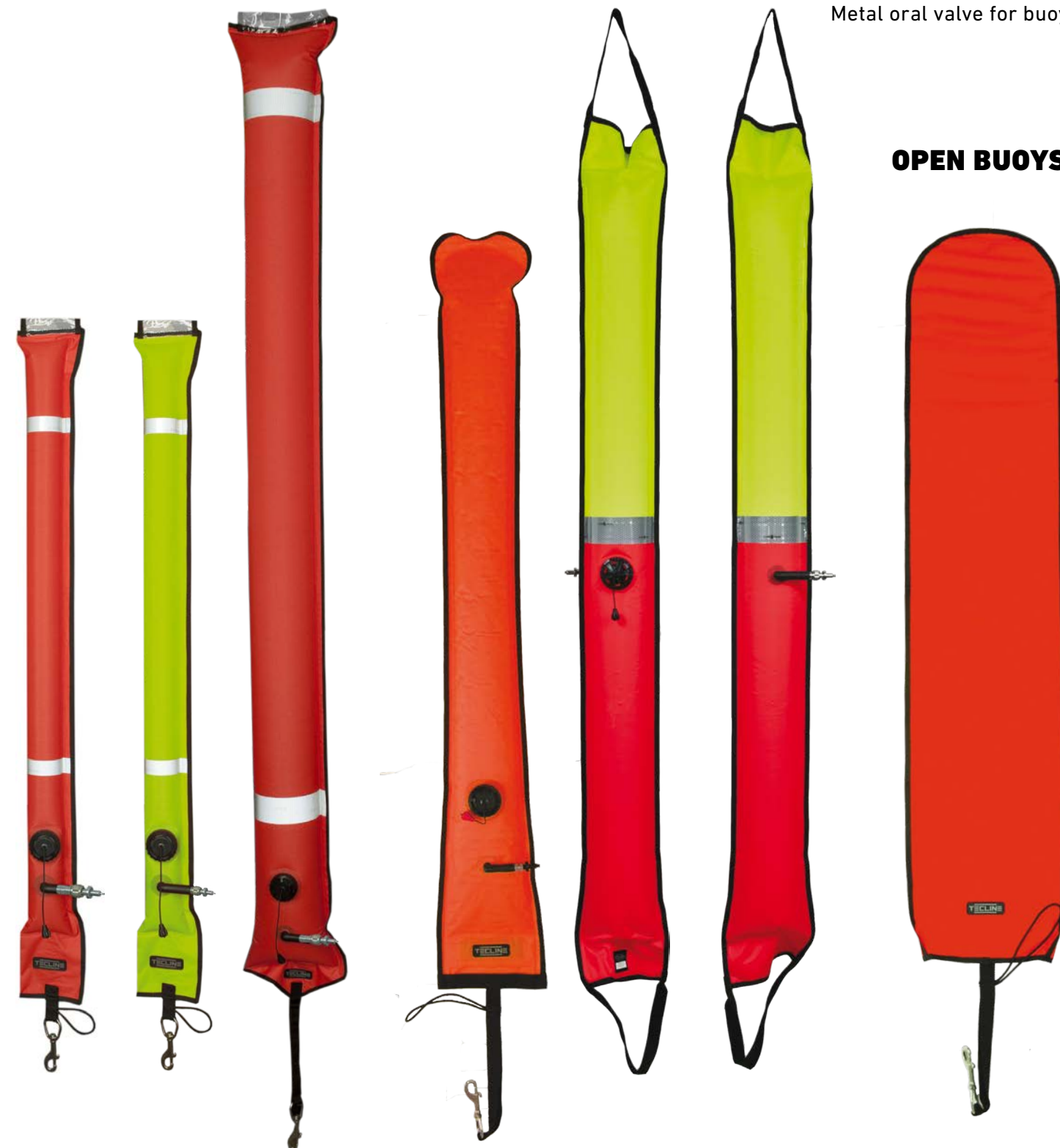
## CLOSED BUOYS

## SEMI-CLOSED BUOYS



Metal oral valve for buoy

## OPEN BUOYS



Closed buoys  
orange/yellow 11/117  
cm, OPR valve

Closed buoy  
22/180cm  
OPR Valve

Semi-closed  
buoy 18/122m  
OPR Valve

Dual-Color  
OPR valve  
orange/yellow

Open buoy  
25/122

# FRAMELESS MASKS



## FRAMELESS - SUPER VIEW

The widest view from all of the frameless masks available on the market. It fits ideally to the face and requires small quantity of gas to clear it from water. Hydrodynamic shape allowing for direct draining of exhaled air away from the diver's view.

- Exceptional view of 170 degrees thanks to a short distance between glass and eyes
- Enlarged angle of view downwards
- Very small capacity
- Metal strap buckles
- Small size and weight
- Ultra light
- Soft, black silicone glued directly to the mask's glass
- Perfectly adhering to face
- Neoprene strap with Velcro optional



Neoprene strap  
- optional



# FRAMELESS MASKS

## FRAMELESS VIEW



## FRAMELESS WHITE



## FRAMELESS CLASSIC MAT



## FRAMELESS II



FRAMELESS II - DIVIDED SCREEN



FRAMELESS II - UNDIVIDED SCREEN

## TIARA



**TECLINE**  
POWER-JET



DESIGN BY TECLINE IN EU  
**SPECIAL EDITION**  
**COMING SOON IN 2015**

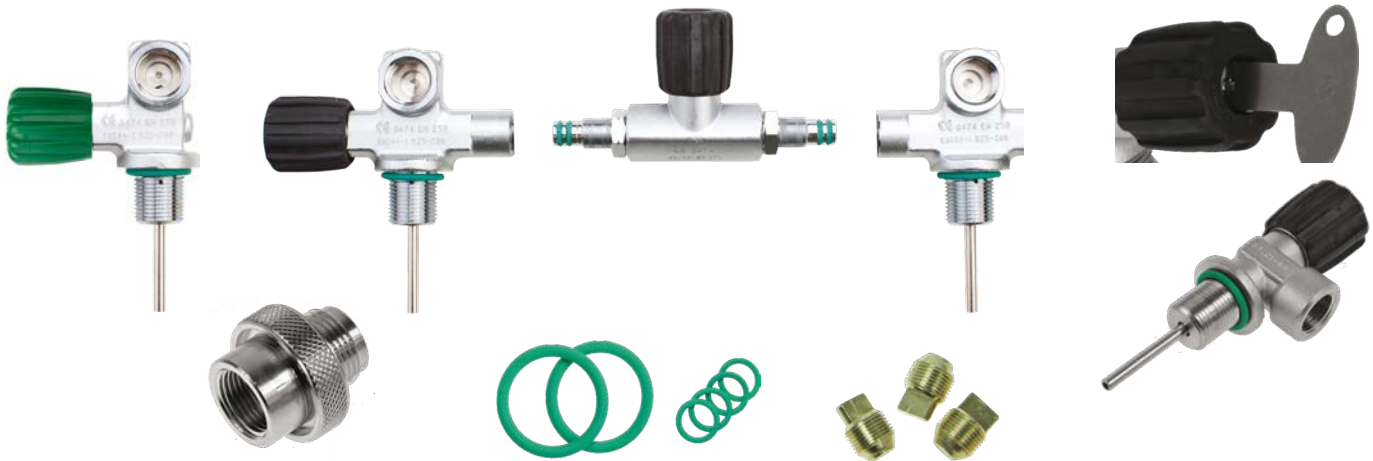
## JETSTREAM FINS



## SS SPRING STRAPS



## VALVES & MANIFOLDS



## TANKS AND DOUBLE TANKS

Eurocylinder, Faber, Luxfer & Catalina



Delrin Thumbwheels

## STAGES AND STAGE RIGGING KITS



SS tank bands

# INSTRUMENTS, SPGS AND ACCESSORIES

## INSTRUMENTS, SPGS



## ELASTOMERIC MOUNTS



## NYLON BRAIDED „PROFLEX” HOSES



## STANDARD RUBBER HOSES



Available colors:     

## COMPASSES



with  
elastomeric  
bungee mount

X7



X7 with strap

## LINE MARKERS



## COOKIES



## PIG TAIL



SS bolt snap  
with bungee 6mm

## WETNOTES IN CORDURA



## WRIST SLATE



## MIRROR



## SET OF TECLINE TRAVELING BAGS - 3 PCS



### MEDIUM AND BIG BAGS:

- the newest system of 4 multidirectional wheels on ball bearings, screws and nuts made of stainless steel
- ergonomic and comfortable, telescopic handle on aluminum brackets
- made of Nylon 2520 Denier resistant to stains from water and dust
- additional handle on the bottom making loading and unloading easier
- tough and durable zips with big handholds ensuring easy opening and closing
- multi purpose outer pocket
- additional nylon cover for the whole bag

### BIG BAG:

- size: 43,5 x 27,5 x 81,5 cm;
- weight: 4,9 kg

### MEDIUM BAG:

- size: 36 x 24 x 61 cm

### SMALL BAG:

- ideal for traveling and everyday use;
- made form Nylon 1680 Denier;
- big, multipurpose pocket;
- removable shoulder strap;
- size: 48 x 19 x 31 cm;
- weight: 1,5 kg



# LED LIGHTS

## LED-17 HEAD LIGHT



Dive mask light (Dive headlight) is a state of the art, ultra compact and super light weight aluminum dive mask light, possibly the most powerful dive mask light on the dive market with such tiny dimensions. Tecline LED -17 No. 1 Dive mask light provides you with the much necessary illumination of instruments and gear during night dives. It is depth rated to 120m, so you don't have to worry about your instruments in low light situations. The dive light provides just enough light without blinding your dive buddy when he/she is looking at you. This little fantastic dive mask light is perfect for attaching to your mask strap and provides an intense convenient ray of light. Comes supplied with an innovative mask attachment clip for secure fastening to mask straps, enabling improved light for the user and displaying your position to your buddies during diving. The powerful lumen LED is perfect for reading gauges, slates and computers, etc. Patent: PAT. M409223

- Location: Clip on mask strap or your pockets.
- Material: Aluminum with anodized & sandblasted in black.
- Weight: 39 g (1 x AAA Alkaline battery & SUS Clip included.)
- Brightness: 120 lumens.
- Overall length: 10 cm.
- Waterproof: 120 meter.
- Burning time: 3 Hours (100% ~ 50%), 8 Hours (100% ~ 10%).
- Bright Dia. / Distance: 25 cm / 1 Meter. 50 cm / 2 Meter. 75 cm / 3 Meter. 100 cm / 4 Meter.
- Accessories: Lanyard, 1 x AAA Alkaline Battery & Mask Strap Clip included.

## LED LIGHT US-13

This handheld dive light utilizes the USA CREE XML U2 LED, max 800 lumens output, Powered by 1\*18650 lithium rechargeable battery, 2 hours runtime in high output, twist on/off switch at head, very easy for you to operate, plus 8 degree beam angle.



### TECHNICAL PARAMETERS

- Output: 800 Lumens
- Runtime: 2h
- Intensity: 18000cd
- Distance: 270m
- Drop resistant: 1,5m
- Water resistance: IP68 (underwater 150m)

### PRODUCT SPECIFICATION

- Utilize Cree XM U2 LED, lifespan is 50 000 hours
- Powered by 1\*18650 lithium rechargeable battery
- Regulated power supply can maintain constant output
- Overheat protection function
- Reverse polarity protection to protect from wrong battery installation
- Super big lanyard hole design for bolt snap mount
- Twist on/off switch, very easy to operate

## LED LIGHT US-13 RECHARGEABLE



- Three O-rings design increases water resistance to 150 meters
- The casing is made of durable Aircraft-grade aluminum
- Premium type III military hard-anodized finish for abrasion and corrosion resistance
- Alloy aluminum reflector
- Dimensions: 40mm (head dia.)\*26mm (body dis.)\*32mm (tail dis.)\*142mm (length)
- Standard accessories: 3 spare O-rings, lubricant, lanyard, user manual
- Other accessories (optional): wrist strap, batteries and charger

## LED LIGHT US-15 COMPACT

### PRODUCT SPECIFICATION

- Light source: LED „Cree” - XML U2,
- Light color: white
- LED's lifespan: about 100 000h
- Power: 10W, 1500 lm
- Beam angle: 10 degrees
- Color temperature: 6000 K - 7000 K
- Power supply: 3 x AA batteries
- Material: anodized aluminum
- Head: lens made of ultra-clear, tempered glass and aluminum reflector keeping ideal angle of 10°
- Water resistance: 200 m (IP 68)
- Working time: about 3h
- Size: 130mm x 50mm (head) x 40 mm (body)



## LED LIGHT US-16

Ideal both as main and backup light.

Thanks to a cooling radiator on the torch's housing, the product doesn't overheat on the surface and, therefore, it is also ideal as a handheld torch at home or in the car. Its low weight without the batteries (3 x C cells) makes it perfect for traveling by air.

**10W, 1500 LM**



- Light source: LED „Cree“-XML U2, light color: white
- LED's lifespan: about 100 000h
- Power: 10W, 1500 lm
- Beam angle: 10 degrees
- Color temperature: 6000 K - 7000 K
- Power supply: 3 x C cells
- Material: anodized aluminum
- Head: lens made of ultra clear, tempered glass and aluminum reflector keeping ideal angle of 10°
- Water resistance: 200 m (IP 68)
- Working time: about 4,4 h
- Size: 220 mm x 50 mm (head) x 33 mm (body)
- Weight: 185 g (without batteries)

## LED LIGHT US-16 GOODMAN



- Light source: LED „Cree“- XML U2, light color: white
- LED's lifespan: about 100 000h
- Power: 10W, 1500 lm
- Beam angle: 10 degrees
- Color temperature: 6000 K - 7000 K
- Power supply: 4 x C cells
- Power control: 100%, 50%
- Material: anodized aluminum
- Head: lens made of ultra clear, tempered glass and aluminum reflector keeping ideal angle of 10°
- Water resistance: 200 m (IP 68)
- Working time: about 2,5 h with 100% power (total time to switching off≈8h)
- Size: 80 mm x 48 mm (head), 33 mm x 244mm (body)
- Weight: 780 g (without batteries) with Goodman handle

## LED LIGHT US-30

Led light US-30 flashlight provides a bright, focused beam with a wide and long lighting range. High brightness, long lighting time, waterproof and reliability are the characteristics of Tecline products. With such high-intensity and solid design technology, US-30 flashlight is the best choice for outdoor rescue and exploration, and meets the demands for lighting in any harsh condition or climate.

### TECHNICAL PARAMETERS

- LED diving torch, 90 meters diving depth
- Patented magnetic switch design
- Aluminum cup design, irradiation distance 500 meters
- Cree 3\*XML-U2 LED bulb(10W) with max 2700 lumens
- Li-ion 2\*18650 battery (2200mAh), support 60 min full power
- Type II anodization, Anti-scraping
- 0-2700lm continuous adjustment



### PRODUCT SPECIFICATION

- Water resistance: IP68/Diving use
- Bulb type: 3\*Cree XML-U2 LED 30W
- Max brightness: 2700 lumens

- Body material: Aviation Aluminum : type II anodization
- Size: 200mm\*44mm\*26mm, 280g

# UNDERGARMENTS



Undergarments TECLINE 3D MOBILITY Series 290 and 490 are designed for demanding divers diving in cold waters. The best materials and the most advanced technologies have been used by its manufacturing.

Well thought-out and carefully designed construction ensure maximum motion comfort and warmth. Fleece, which has been used as inside lining, has been compressed in order not to take too much space under the drysuit. Fleece is soft and comfortable.



## TECLINE 3D MOBILITY UNDERGARMENTS KEY FEATURES:

- Outer shell made of Pertex 40g/m2: thin, smooth and extremely durable material
- 250g/m2 layer of Fleece inside: advanced technical fleece with extra thermal properties
- Additional inner layer of micro fleece 200g/m2 in Undergarment Series 490
- Three pockets; one of them is zippered breast pocket
- Neoprene ankle cuffs
- Comfortable collar adding warmth
- Two-way convenience main zipper sealed with a band inside
- Wind stopping flexible waist panel, flexible armpit panels
- Both kinds of undergarment are equipped with suspenders which can be regulated in a standard way
- Wrist cuffs which allow easy drysuit donning and let the air flow to the gloves
- Machine and chemically washable





# TECLINE

by KASSA

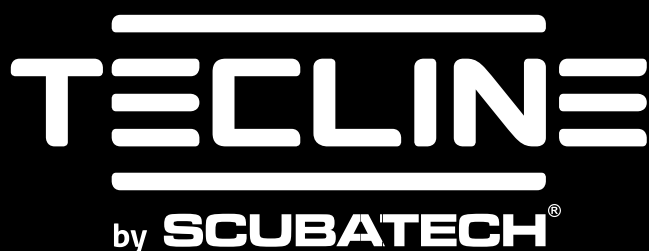


before diving ...



... after diving

# TECHNICAL DIVING EQUIPMENT CATALOGUE



Scubatech Sp. z o. o.

ul. Lubieszyńska 2

72-006 Mierzyn

Poland

tel/fax: +48 91 453 00 17

[www.tecline.com.pl](http://www.tecline.com.pl)

[www.scubatech.pl](http://www.scubatech.pl)



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