

TECHNICAL DIVING EQUIPMENT CATALOGUE



www.tecline.com.pl

TECLINE
by **SCUBATECH**[®]

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WHERE ARE THE DIVERS?



...LOOKING FOR **TECLINE** GEAR!
by **SCUBATECH**[®]

WHEREVER YOU DIVE



photo by Petr Vaverka



Tomasz Stopyra
President

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.

Last year we celebrated our 10.000th regulator which was sold onto the market. Our regulators have been successfully used for almost 10 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 by Scubatech. This line consists of wings, harnesses, 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 uncovered 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.

Due to the fact that we manufacture our equipment and there is no middleman between us and the dealer, our prices are really competitive.

Our perfection has been also appreciated by many famous brands of diving equipment and we are also proud to be distributor of them: Sitech, VR Technology, Ocean Reef, Pinacclle, DUI, Faber, Eurocylinder, Luxfer, McNett, Innobeam, Saekodive.

For more information about the products, please visit:

www.tecline.com.pl – for technical gear,
www.scubatech.pl – for recreational market
or don't hesitate to contact us directly at **scubatech@scubatech.pl**

photo by Sebastian Rosiak



TECLINE

by **SCUBATECH**[®]



REGULATORS



STEEL & ALUMINUM TANKS



DRY SUIT INFLATION



STAGE RIGGING KITS



VALVES & MANIFOLDS



INSTRUMENTS



STAINLESS STEEL ACCESSORIES



"PROFLEX" NYLON BRAIDED HOSES



WINGS & HARNESSES



LED LIGHTS



MASKS



FINS



REELS & SPOOLS



THERMAL UNDERGARMENTS



BUOYS

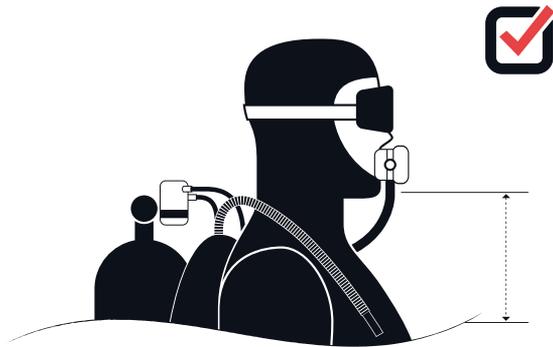


AFTER DIVING

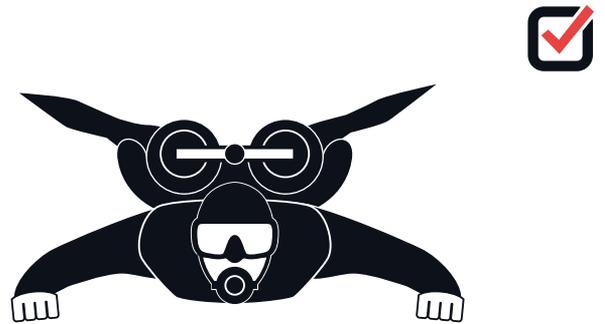
DONUT 22 *Special Edition*

Dedicated for perfect buoyancy

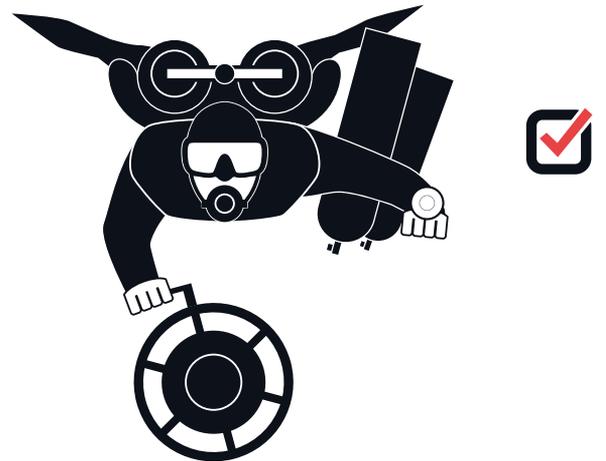
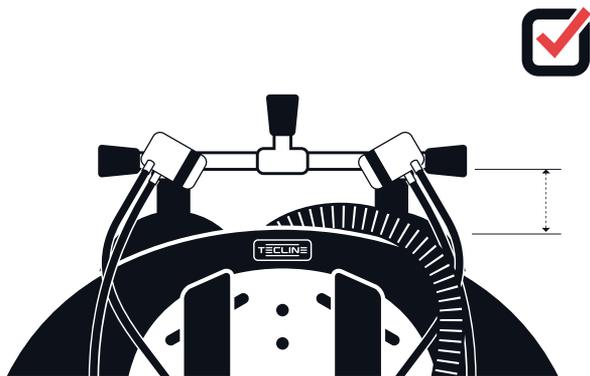
High surface position



Easy dump system



Easy valve access



Compatible with all configurations



BUOYANCY COMPENSATORS



DONUT 22 *Special Edition*

CE CERTIFIED

CE 1463
EN 1809



YouTube Tecline TV:

How is Donut 22SE built?



See Donut 22SE in action



Swimming pool test of Donut 22SE



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 twin set and together with several tanks on the side
- streamlined shape allowing for entering the narrow spaces;
- durable material – UV resistant and tough
- capacity big enough for the wing together with two tanks and a side tank to remain on the surface and after having it put on by the diver, to give him a high position above the water
- quick release of gas in each position with the use of both inflator and a back valve (“flush”)
- 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

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 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 flush. 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 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.

More information on how the wing was being created can be found on the internet forum Divetrek Group:

<http://divetrek.com.pl/forum/viewtopic.php?t=5141>

A film showing how easy it is to use the Donut 22 Special Edition can also be found there

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 what 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 side tanks 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.



YouTube
Tecline TV:
Donut 30SE
simming 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 in the water
- 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 applying 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

STANDARD DONUTS

Donut 15

Donut 17

Donut 22

Wing 25



Donut 15



Donut 17



Donut 22



Wing 25



Built-in mono tank adaptor



CE CERTIFIED

CE 1463
EN 1809

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 the adaptor for mono tank.





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



Accessories system

PROFESSIONALS INSIGHTS



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

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.

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



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 Cave/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.

REGULATORS R5 SERIES



R 5 TEC

A demand regulator R 5 ICE 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 the stages of pressure reduction are divided by intermediate hose. The trusted and newest solutions in regulators’ design were implemented while creating this device. These solutions are also used by the leading companies producing diving equipment and they contribute to excellent parameters of R5ICE. 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 value of performance as the other regulators available on the market demand. In many cases R 5 ICE is competitive in comparison with them. Additional benefit is the ergonomic design and the configuration of fixed components AO such as: standard (5/8”) four intermediate pressure ports as well as standard two high pressure ports (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 in 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. R 5 ICE is not prone to freezing in cold water during hard work (consumption of air more than 62l/min).

In case of R 5 ICE, 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.

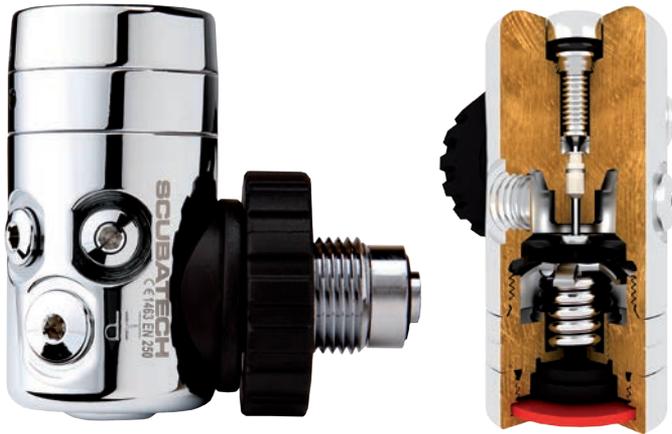
The demand regulator (breathing apparatus) R 5 ICE is an air diving regulator perfect for use both in recreational and commercial dives. It is intended to use with any set of air tanks with operation pressure up to 30MPa. It is compatible with all ranges of operation pressure of tanks currently present on the market. This regulator can be successfully used in dives in Polish, cold waters as well as in expeditions into warm tropical waters within the depth for air dives.

Designed for cold water diving.

R5 ICE CE 1463 EN 250

FIRST STAGE OF REDUCTION **RG 1005 ICE** +

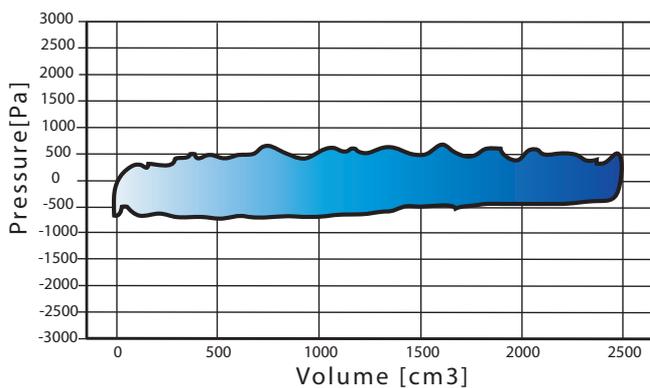
SECOND STAGE OF REDUCTION **RG 5 X BALANCED**



- 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%

- 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 airway resistance



Wide exhaust cover

10 YEARS WARRANTY FOR FIRST OWNER

REGULATORS R2 SERIES

CE 1463 EN 250

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 EN 250, 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.

FIRST STAGE OF REDUCTION RG 1002 ICE

- 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: 730g
- Can be used with Nitrox up to 40%



SECOND STAGE OF REDUCTION RG 4 X



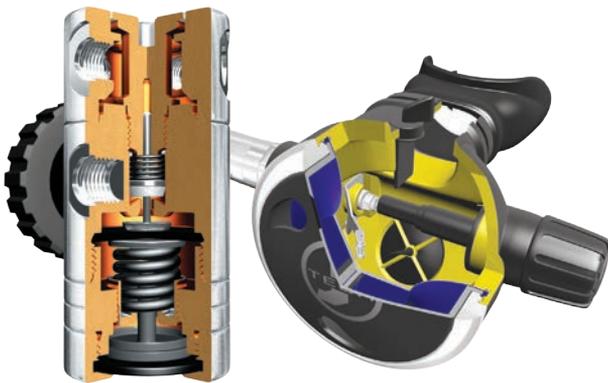
Made from maritime bronze with high heat capacity ability to collect heat resulting in increased resistance to freezing.

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.

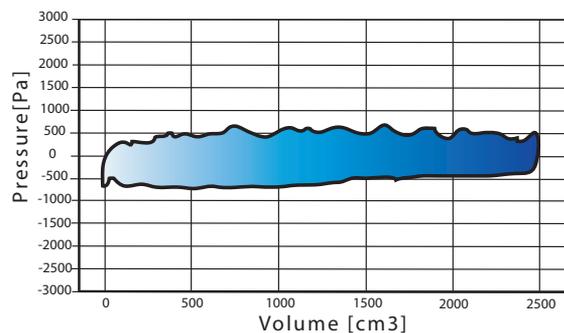
2 HP ports allowing for the use of both classical manometer and a transmitter for computer.

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.



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

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



SECOND STAGE OF REDUCTION R2 ICE SPECIAL



Regulation of breathing resistance



Made of high quality polymers

10 YEARS WARRANTY FOR FIRST OWNER

Designed for cold water diving.

REGULATORS R1 SERIES

10 YEARS WARRANTY

CE 1463 EN 250

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 EN 250;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 Polish 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.

R1 PRO



SECOND STAGE OF REDUCTION RG 4 X



- Regulation of breathing under pressure
- Regulation of breathing resistance
- 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%

R1

FIRST STAGE OF REDUCTION RG 1001

- 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%



SECOND STAGE OF REDUCTION RG 3 X



- Without regulation of resistance and 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%

EACH OCTOPUS IS OFFERED WITH 90CM, YELLOW INTERMEDIATE HOSE

Octopus R 3TEC



Piccolo



R 3



LED LIGHT US-15

10W, 1500 lm

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 hand-held torch at home or in our car.

Its low weight without the batteries (3 x C cells) makes it perfect for traveling by air.

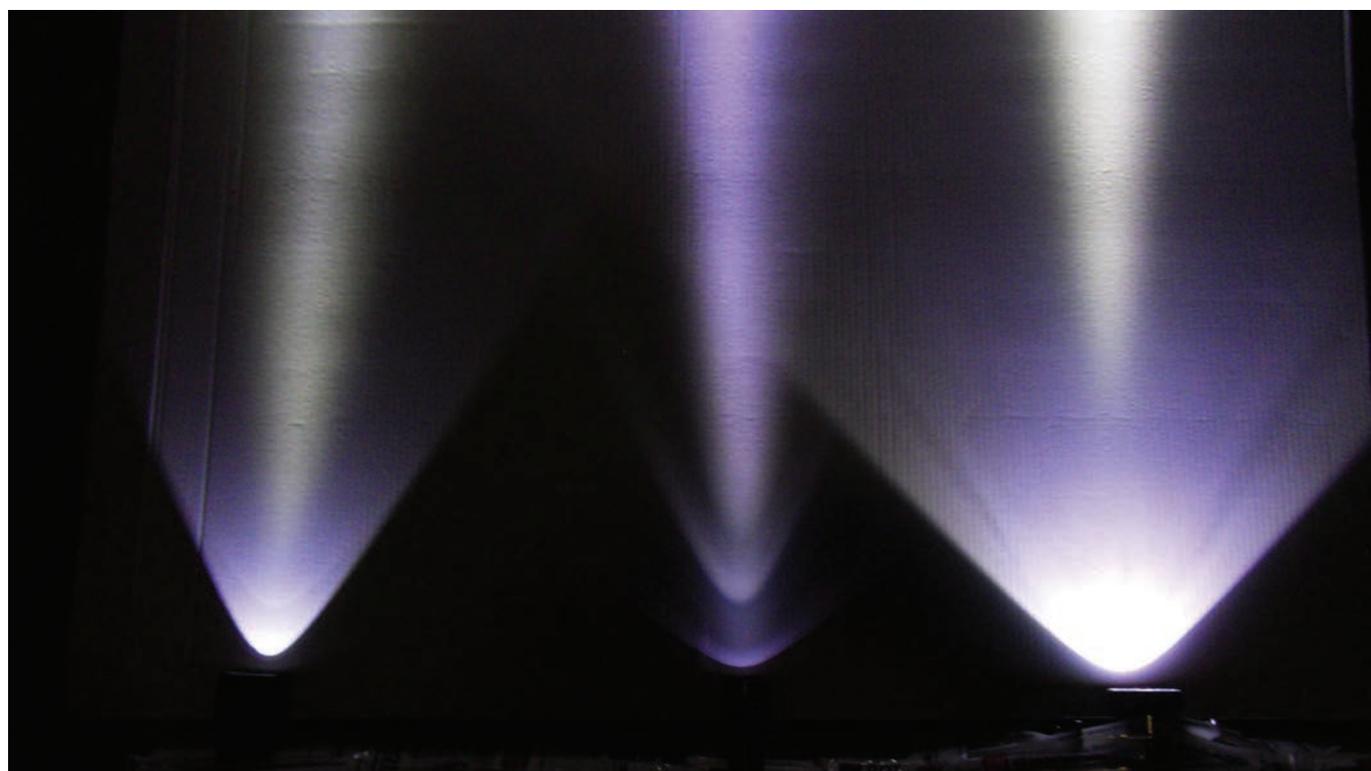


- Light source: LED „Cree“-XML T6, light color: white
- LED's lifespan: about 100 000h
- Power: 10W, 1500 lm
- Beam angle: 10 degrees
- Color temperature: 6000 K - 7000 K
- Power supply: 3 x R14
- Material: anodized aluminum
- Head: lens made of ultra clear, tempered glass and aluminum reflector keeping 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)

GRALMARINE

LFM BACKUP TEC

TECLINE US-15



The summary of playing with Tecline US-15 flashlight and comparing it with LFM Backup Tec and Gralmarine KX Narrow lights.

By: Polamp Components - Michał Samplawski

About the Tecline US-15 itself:

- Quality of workmanship without any objections. Nice, black, mat anode, glass on the head, ideally smooth and clean reflector.
- Turning on by tightening the head, this function works very good without unnecessary resistance or blocking in tightened position.
- Inserting the batteries by loosening the head.
- If I were really to find any weak point in the flashlight, I'd notice the sharp edges in the opening needed for fixing the carabiner. Also, the glass seen from the inner part of the head is not ideally clean (it looks as if it was slightly dusty).
- Type of light is narrow, central beam plus even, quite wide glow. Color of light just as the manufacturer indicates: daylight.

- It can be used on the surface without any problems. When the batteries are still „fresh”, a minimal increase of temperature of the case/radiator close to the source of light can be felt. When the batteries are even slightly discharged, this increase of temperature is not noticeable.

- A noticeable decrease of light's brightness can be observed along with time of flashlight's functioning. Using standard batteries LR14 Duracell, it can be estimated that the flashlight will maintain its maximum parameters for about 1,5-2h. After 2h the amount of luxes dropped by about 30-40%. The flashlight with ordinary batteries was burning for 10h and it didn't want to stop. I deduce there is no protection against over discharging. This means that in case of batteries the user has to control it by himself, which actually isn't a bigger problem for me. After 10h of

burning the batteries were discharged up to 1,0V (a new battery is 1,58V). Even with such discharge, the flashlight can still be used on the surface because its light can be used for some minor works outside.

Tecline US-15				
Burning time	0h	2h	4,5h	10h
Lux center	15800	9000	5500	1120
Lux halo	1300	500	250	90
Lux glow	120	70	55	15

Summing up, the time of burning given by the producer (4,5h) is actually the time of burning for the diving flashlight. Using some good source of power will result in even longer time of burning. If we are interested in the strongest beam, then we have to be prepared for about 2h of burning.■

Comparing Tecline US-15 with LMF Backup Tec and Gralmarine KX Narrow

Tecline flashlight is a little bigger backup. It's not a big problem for me, but it has to be emphasized. It will be perfect as a main, recreational light but for some divers it can be a tittle too big as a backup light. The product can also be used on the surface - it has ideal size, it will look very professional; something like a smaller version of cult Maglite lights. LMF Backup Tec has a similar length although it has smaller dimension of head. The size of head of Gralmarine KX Narrow is similar to Tecline. Standard version of KX Narrow is considerably shorter.

Main beam has similar concentration in both flashlights. Taking a closer look, it can be noticed that Gralmarine has the clearest „point”. Tecline product has slightly darker circle around the „point”. In practice, it means that its beam seems to be slightly wider. LMF doesn't have ideally round „point” (blurred on one side); bright in the center but the further outside, the darker. In practice, although the beam is less bright on the wall, it seems to be more concentrated under the water than

Gralmarine or Tecline but weaker due to significantly smaller power.

There are big differences in lightening the surroundings, so in the glow that the flashlights emit. The strongest glow is emitted by KX Narrow. At the same time, its glow is evenly distributed (smooth distribution of brightness from the center to the outside part). Tecline US-15 has similar feature but its glow is half the size of KX Narrow's. In case of Backup Tec there is hardly any glow; it's very narrow and doesn't lighten the surroundings; some small halo is visible on the wall but it's almost invisible under the water. As far as the brightness is concerned, the weakest (5W) is LMF. US-15 (10W), KX (10W) again small plus for Tecline. Maybe it's caused by bigger difference in brightness of main beam and the glow or maybe Tecline light is really brighter. 1500 lumens given by the manufacturer may be a little bit exaggerated but there is really enough light.

The measurements done by luxmeter confirm my feelings. Both US-15 and KX

Narrow have the same brightness, Backup Tec is darker. As I indicated below in the table, the measurements were done on batteries in case of Tecline and LMF flashlights and on Li-ION batteries in case of Gralmarine product. Using better batteries would probably result in better results. My measurements cannot be treated as extremely precise; I just wanted to have some comparison in figures.

Taking into consideration the workmanship, brightness, practicalness, and in particular, the possibility to use the product on the surface (it's possible that the other products can also be used on the surface but it's not directly stated by the manufacturer and in case of Tecline flashlight, the producer clearly states that the light can be used on the surface), the time of burning and of course - the price, I'm practically convinced to buy such a light. I will use it as backup light, as main light during recreational dives, as useful tool during actions on the surface, as useful tool in my car just in case anything bad happens.■

	Backup Tec	KX Narrow	US-15	Backup Tec mini	Gral „miecz”	Tusa Tul300
Lux center	5500	15500	15800/1300(halo)	4600	10200	550
Lux glow	9	200-30	120	10	100	-
Middle center (cm)	~15	16	15/38(halo)	16	8	67
Middle glow (cm)	90	216	120	85	46	-
Declared Lumens	360	900	1500	360	-	130

BUOYS, REELS AND SPOOLS



L = 45m



L = 30m



L = 15m



Tecline Reel
400ft/130m



Tecline Reel
800ft/260m



Closed buoy
11/117 cm,
OPR valve



Closed buoy
22/180cm
OPR Valve

STAINLESS STEEL ACCESSORIES

D-RINGS



56mm x 72mm / Ø 6mm

B-RINGS



56mm x 72mm / Ø 6mm
base 22mm x 60mm

SS BOLT SNAPS



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

SS BUCKLES



50mm x 60mm x 80mm



45°

90°

BRASS BOLT SNAPS



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

SS BUCKLES



50mm x 60mm x 91mm



46mm x 62mm / Ø 6mm
base 32mm x 62mm

SS DUBLE ENDERS



L = 90/100/115/120mm

TRIGLIDERS



22mm x 60mm x 50mm

OVALS



50mm / Ø 6mm

60mm / Ø 6mm

BRASS DUBLE ENDERS



L = 90/100/115/120mm



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

SS SLAM SNAPS



L = 80mm/100mm

TANKS AND DOUBLE TANKS

Eurocylinder, Faber, Luxfer & Catalina



Derlin Thumbwheels

STAGES AND STAGE RIGGING KITS



SS tank bands



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

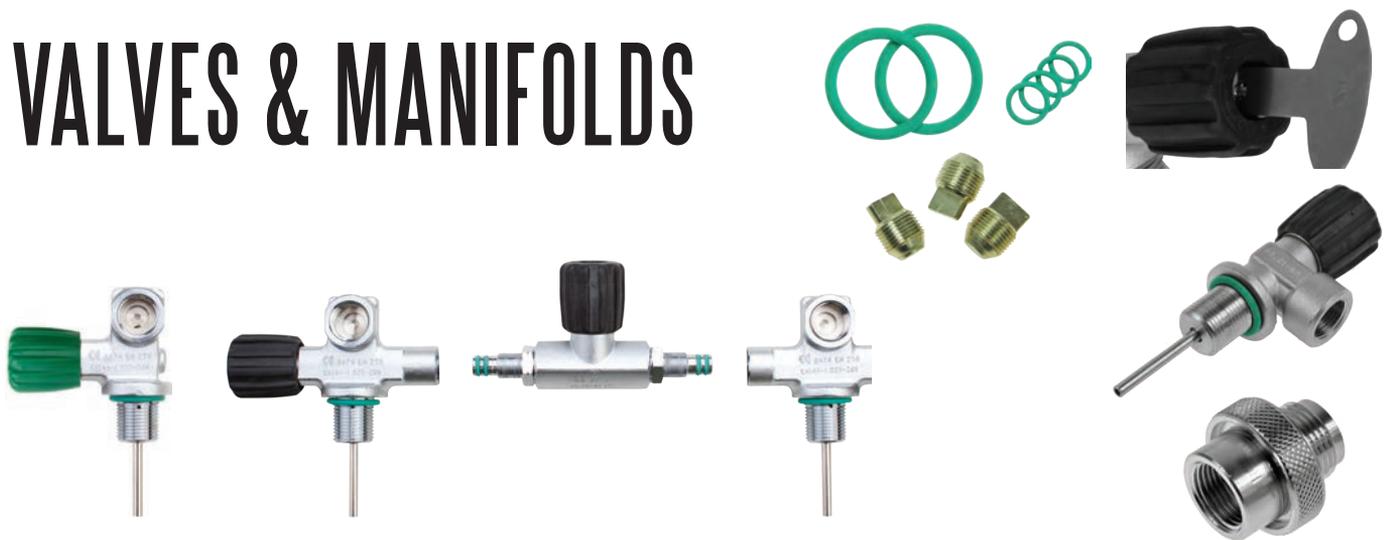
ARGON SETS



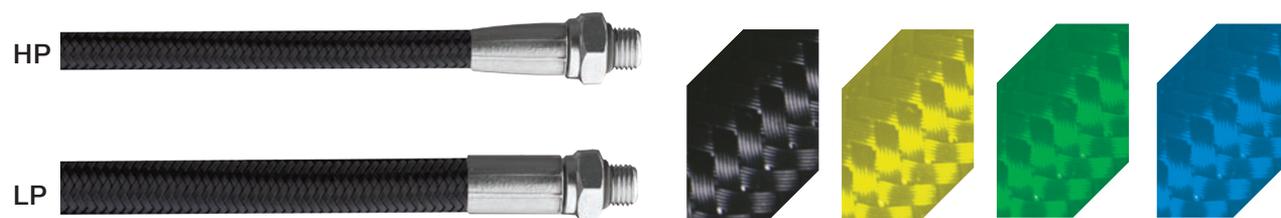
1st stage with
integrated over
pressure valve



VALVES & MANIFOLDS



NYLON BRAIDED „PROFLEX” HOSES



INSTRUMENTS, SPGS, ELASTOMERIC MOUNTS



JET STREAM FINS



SS SPRING STRAPS

FRAMELESS MASKS

FRAMELESS VIEW



FRAMELESS CLASSIC MAT



FRAMELESS II



TECLINE TIARA



WETNOTE IN CORDURA



UNDERGARMENTS

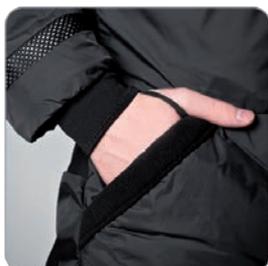
Undergarments TECLINE 3D MOBILITY Series 290 and 490 are designed for demanding divers diving in cold waters. The best materials and the most advanced technologies have been used by its manufacturing.

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**



after diving ...