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# TAKE CONTROL

## WITH THE XTX SERIES



## The world's first regulator designed to exceed the proposed European standard in Auxiliary Emergency Breathing Systems.

Bit of a mouthful isn't it? But it's important.

An Auxiliary Emergency Breathing System (commonly known as an Octopus or alternate air source when connected to the primary regulator) is a fundamental part of any diver's kit.

The alternate air source provides an emergency backup demand valve in case of primary demand valve failure and acts as an alternative source of air for a dive buddy. The proposed minimum safety standards only require an alternate air source to be tested to 30 metres (98ft).

Apeks recognises that emergencies can happen beyond these limits and is the first regulator manufacturer in the world to design, have independently tested and be awarded CE approval for alternate air source products which far exceed the proposed minimum requirements.

This means that an Apeks alternate air source matches the performance of the primary demand regulator that it is intended to work with, tested in water temperatures below 10°C (50°F) where stated, and to depths of 50 metres (164ft).

As a user you can be confident that in an emergency or an out of air situation, your Apeks regulator can cope with the extra demand of your buddy breathing from your alternate air source and safely supply air to you both.

In 2013, the entire range of Apeks XTX regulators underwent a refresh. New cosmetics coupled with great new features continue to make Apeks the brand most chosen by serious divers.

- > Exceeds the proposed European safety standards.
- > Optional 5th port available for every model with the additional bonus of an integrated heat exchanger on the XTX200 and XTX100 first stages.
- > Braided flexi-hoses are now standard on all models. These hoses are lighter in weight, more flexible and more durable.
- > Following on the success of the anti-bacterial mouthpiece, anti-bacterial additive has now been molded into most second stage components. This is especially useful with shared equipment, providing added protection against bacteria.
- > The purge buttons are now larger and easier to operate with a two-stage progressive purge. Press the purge on the side for a lower flow rate, useful where more control is required such as filling lift bags, then press in the centre for the full effect of the purge, for example when regulator clearing.
- > A new, larger venturi lever has been added with a soft touch rubber grip which makes it easier to locate and use.

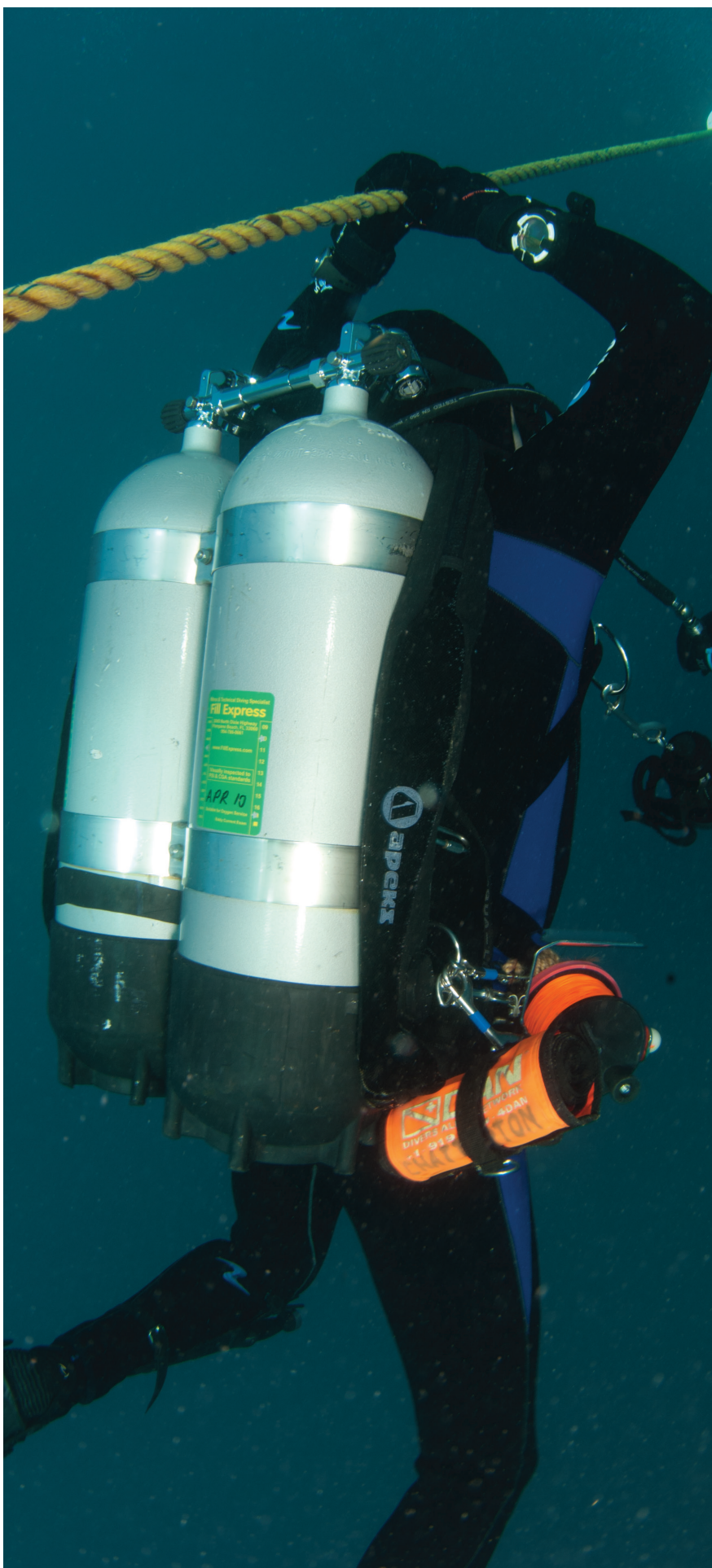




## TEK3 REGULATOR SET

Apeks has developed unique first stages specifically for use on a twinset. Each first stage has three medium pressure ports and one high pressure port. They are hydrostatically over-balanced, cold water compatible and extremely robust. The TEK3 is equally suitable for single cylinder or stage cylinder configurations, offering perfect snag-free hose positioning.

- > Set includes two XTX50 second stages (the set can be used with all XTX second stages)
- > The TEK3 utilizes all of the proven technology contained within the Apeks range of first stage regulators
- > This new model incorporates three medium pressure 3/8" UNF ports and one high pressure 7/16" UNF port. The ports are arranged so as to give a neat streamlined hose configuration as desired by the technical diver
- > Allows maximum unrestricted accessibility to the cylinder valves when using a twin cylinder set up
- > Outstanding cold water performance
- > Only available in DIN fitting and M26 connection



## XTX TUNGSTEN

The XTX Tungsten is the flagship of the XTX range. It is built on the XTX200 platform but it is protected with a hard, durable PVD (Physical Vapor Deposition) finish. This tough-as-nails finish is better than traditional chrome plating and is made of high quality grades of Titanium, Zirconium and Chromium. The result is not only rich, but protects your investment from normal diving abuse.

- > Uses the FSR first stage
- > PVD finish
- > Optional 5th port with heat exchanger
- > All medium pressure ports are now 3/8" so that the reversible second stage can mount to either side of the first stage
- > Hydrostatic over-balancing first stage allows the medium pressure air in the hose to increase at a rate faster than ambient pressure resulting in superior performance
- > Comes standard with an environmental dry kit which keeps water and contaminants out as well as makes the model more resistant to freezing
- > Features the innovative Diver Changeable Exhaust (DCE) system allowing the diver to change from a large exhaust tee to a smaller exhaust tee. The larger exhaust tee provides the best exhaust bubble dispersion while the smaller tee is lighter weight and compact, both are included with the regulator
- > Can be converted from a right-handed hose configuration to a left-handed configuration
- > Two-stage progressive dual purge
- > The pneumatically balanced second stage has diver-adjustable controls that allow the diver to individually tailor the breathe of the regulator to meet each dive's needs
- > The ergonomic venturi lever has been designed to reduce the amount of grit ingress
- > Available in yoke or DIN configuration
- > Suitable for cold water use



## XTX200

The XTX200 is the definitive blend of style and high performance. Every detail has been carefully designed to offer a high quality piece of equipment.

- > Uses the FSR first stage
- > Chrome finish
- > Optional 5th port with heat exchanger
- > All medium pressure ports are now 3/8" so that the reversible second stage can mount to either side of the first stage
- > Hydrostatic over-balancing first stage allows the medium pressure air in the hose to increase at a rate faster than ambient pressure resulting in superior performance
- > Comes standard with an environmental dry kit which keeps water and contaminants out as well as makes the model more resistant to freezing
- > Features the innovative Diver Changeable Exhaust (DCE) system allowing the diver to change from a large exhaust tee to a smaller exhaust tee. The larger exhaust tee provides the best exhaust bubble dispersion while the smaller tee is lighter weight and compact, both are included with the regulator
- > Can be converted from a right-handed hose configuration to a left-handed configuration
- > Two-stage progressive dual purge
- > The pneumatically balanced second stage has diver-adjustable controls that allow the diver to individually tailor the breathe of the regulator to meet each dive's needs
- > The ergonomic venturi lever has been designed to reduce the amount of grit ingress
- > Available in yoke or DIN configuration
- > Suitable for cold water use





## XTX100

The XTX100 shares the same technical features as the XTX200 and offers exceptional performance

- > Uses the FST type first stage
- > Satin finish
- > Optional 5th port with heat exchanger
- > All medium pressure ports are now 3/8" so that the reversible second stage can mount to either side of the first stage
- > Hydrostatic over-balancing first stage allows the medium pressure air in the hose to increase at a rate faster than ambient pressure resulting in superior performance
- > Comes standard with an environmental dry kit which keeps water and contaminants out as well as makes the model more resistant to freezing
- > Features the innovative Diver Changeable Exhaust (DCE) system allowing the diver to change from a large exhaust tee to a smaller exhaust tee. The larger exhaust tee provides the best exhaust bubble dispersion while the smaller tee is lighter weight and compact, both are included with the regulator
- > Can be converted from a right-handed hose configuration to a left-handed configuration
- > Two-stage progressive dual purge
- > The pneumatically balanced second stage has diver-adjustable controls that allow the diver to individually tailor the breathe of the regulator to meet each dive's needs
- > The ergonomic venturi lever has been designed to reduce the amount of grit ingress
- > Available in yoke or DIN configuration
- > Suitable for cold water use



## XTX50

The XTX50 Regulator is for the diver who wants the benefits of a feature-rich regulator at a moderate price.

- > Uses the DST first stage with four medium-pressure ports all mounted on a rotating turret. This results in optimal hose routing while eliminating sharp bends in the hose
- > Optional 5th port
- > All medium pressure ports are now 3/8" so that the reversible second stage can mount to either side of the first stage
- > Hydrostatic over-balancing first stage allows the medium pressure air in the hose to increase at a rate faster than ambient pressure resulting in superior performance
- > Comes standard with an environmental dry kit which keeps water and contaminants out as well as makes the model more resistant to freezing
- > Features the innovative Diver Changeable Exhaust (DCE) system allowing the diver to change from a large exhaust tee to a smaller exhaust tee. The larger exhaust tee provides the best exhaust bubble dispersion while the smaller tee is lighter weight and compact, both are included with the regulator
- > Can be converted from a right-handed hose configuration to a left-handed configuration
- > Two-stage progressive dual purge
- > The pneumatically balanced second stage has diver-adjustable controls that allow the diver to individually tailor the breathe of the regulator to meet each dive's needs
- > The ergonomic venturi lever has been designed to reduce the amount of grit ingress
- > Available in yoke or DIN configuration
- > Suitable for cold water use





## DS4 / XTX50 DIN

This first stage goes to the extreme and never disappoints making it the regulator of choice for technical divers around the world.

- > The compact first stage is ideally suited for twin manifolds or for use on a single valve
- > The one high-pressure port and four low-pressure ports are positioned for most common technical diving rigs
- > The over-balanced first stage provides superior performance at deeper depths
- > The first stage is dry-sealed preventing the entry of contaminants as well as ice formation on the main spring
- > The XTX50 second stage is pneumatically balanced for very easy breathing
- > Due to its innovative Reversible Venturi System (RVS), the second stage can be configured into a right hand or left hand orientation
- > Using the easy grip venturi control lever, the diver can prevent unwanted freeflow when the regulator is out of the mouth and achieve a venturi boost while diving
- > Suitable for cold water use
- > First stage comes standard with a 300 Bar DIN connector



## XTX40

Although the XTX40 is a mid-range Apeks regulator, it is still classed as a high performance regulator in independent reviews. The XTX40 comes with all the features of our highly successful XTX50 with the exception of diver adjustable breathing resistance control.

- > Uses the DST first stage
- > Optional 5th port
- > The pneumatically balanced second stage has left/right reversibility and a Diver Changeable Exhaust (DCE) system. Only the compact exhaust tee is supplied
- > Integrated venturi control
- > Suitable for cold water use



## XTX20

This regulator has the performance of the XTX40, without the cold water features, it is well suited for warm water conditions and the price makes it exceptional value.

- > Uses the UST first stage
- > Optional 5th port
- > Designed for water above 10° C (50° F)
- > The pneumatically balanced second stage has left/right reversibility and a Diver Changeable Exhaust (DCE) system. Only the compact exhaust tee is supplied
- > Integrated venturi control



# Interview with Garry Dallas

## Tell us about the Apeks Cave Expedition

Myself and Niels Horemans spent a year planning our expedition to Mexico, continuing our quest to make a connection between the Calavera cenote and Grande cenote located in the town of Tulum.

We also wanted to investigate several virgin cenotes, which we were given exclusive rights to explore by the local land owner.

It was very important to us that we were able to survey the cenotes during our expedition, historically documenting our findings to show the links between each cenote system. It is a cave diver's dream, so we set about forming plans to make it happen!

## Why did you choose Apeks regulators to support you underwater?

As a time served mechanic, we have a saying in the garage, 'use the right tool for the right job', which is why I always use the Apeks DST XTX50 series sidemount regulator set.

Not only is it a robust, easy to maintain, fully adjustable and frankly speaking a beautiful looking regulator, it's actually perfect for the standardised sidemount configuration we use and one the world is beginning to adopt.

After 14 years of diving most makes and models of regulator, I started using the Apeks DS4 ATX50 regulator about eight years ago and have never looked back since. I've used my XTX50s in 2 degree water temperatures during ice dives without any hint of a freeflow and on Trimix dives down to 100m providing a satisfyingly smooth and well regulated breathe which gave me total confidence in bringing them deep into caves.

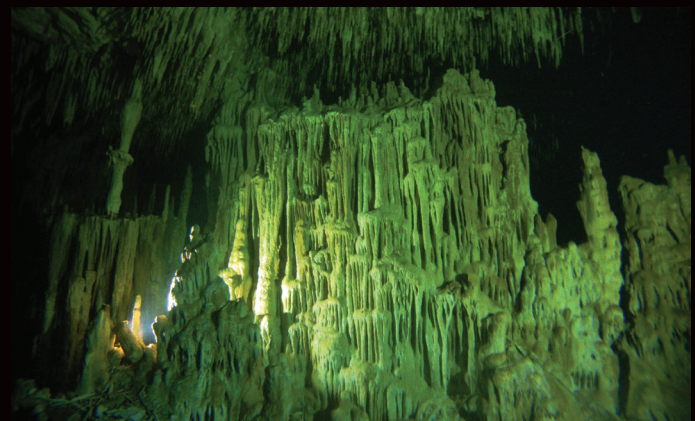
One of the fantastic features of the XTX series is that it has the Reversible Venturi System (RVS) which allows me to configure my regs to suit my diving style, whether it be cave, Trimix staging or open water. Being able to change the inlet breathe from right to left in under two minutes is a feature no other regulator has, though the work must be carried out by an authorised Apeks technician.

Apeks have really fine-tuned their regulators over the years, not only in performance but also in stylish looks which have a purpose. Their latest models' finishing touches are proving to be without a doubt the best ever. I particularly like the anti-bacterial body now used, especially as I have several sets in my school. The two stage purge button is very useful when demonstrating skills during courses.

I am as passionate about my regs as I am about diving and my life is worth more to me and my family than choosing the wrong breathing apparatus for the wrong job, that's why I trust Apeks.

## Which regulators did you take and how did they perform in such an extreme environment?

We took two sets of the DST XTX50 Sidemount regulators for our primary cylinders and eight sets of DST XTX40 regulators for our stages. They performed perfectly of course! One regulator started to get a wet breathe 200m into the dive so I



decided to check the regulator before carrying on any further. Without the need for tools and leaving the gas switched on, I unscrewed the front cover exposing the diaphragm, then unclipped the exhaust ports to find a tiny piece of dead white coral rock in between the body and the rubber exhaust valve. I removed it, replaced the covers and breathed it...perfect again...in under a minute!

Sometimes in cave diving explorations, due to the environment, we can expect the unexpected. Tiny particles floating around while we're trying to fit through small gaps, with our stage regs so close to the floor, small particles coupled with a flow of water could end up in the exhaust ports of any make of stage regulator if you're not breathing off it at that time. This just proved how easy Apeks regulators are to maintain...even underwater!

## How did the expedition go?

This has been an awesome time in my life; my only regret is not having done it sooner! We were so privileged to be the first to explore the virgin cenotes and I will never forget those moments.